KENICHI SOGA PhD FREng FICE

Chancellor's Professor University of California, Berkeley Department of Civil and Environmental Engineering 447 Davis Hall Berkeley, California 94720-1710 USA e-mail:soga@berkeley.edu

Personal Background

Place of Birth Suffern, NY, USA (US Citizen)

Education Rokko Primary School, Kobe University Secondary School, Kobe High School, all in Kobe, Japan

Employment

Chanallan's Duafassan
Chancellor's Professor
University of California-Berkeley, Department of Civil and Environmental Engineering
Professor of Civil Engineering
University of Cambridge, Department of Engineering, Cambridge, UK
Fellow
Churchill College, Cambridge, UK
Reader in Geomechanics
University of Cambridge, Department of Engineering, Cambridge, UK
University Senior Lecturer
University of Cambridge, Department of Engineering, Cambridge, UK
University Lecturer
University of Cambridge, Department of Engineering, Cambridge, UK
Post-Doctoral Research Fellow
University of California-Berkeley, Research Advisor: Professor Jonathan D. Bray
Graduate Student Instructor
University of California-Berkeley
Graduate Research Assistant
University of California-Berkeley, Research Advisor: Professor James K. Mitchell

Higher Education/Degree

1989-1994	University of California-Berkeley, USA
	Ph.D. in Civil Engineering,
	Major: Geotechnical Engineering
	Minors: Mechanics of Solids and Landscape Architecture
	Dissertation "Mechanical behavior and constitutive modelling of natural structured soils"
	Research Advisor: Professor James K. Mitchell
1987-1989	Kyoto University, Japan
	Master of Engineering, Geotechnical Engineering emphasis
	Dissertation "Long-term consolidation behavior of Osaka diluvial clay"
1983-1987	Kyoto University, Japan
	Bachelor of Science (Civil Engineering)

Professional Affiliations

- Fellow, Royal Academy of Engineering, UK
- Fellow, Institution of Civil Engineers, UK
- Member, American Society of Civil Engineers, USA
- Member, Japan Society of Civil Engineers, Japan
- Member, British Geotechnical Association, UK.
- Member, Japanese Geotechnical Society, Japan

Spinoff companies

- Wisen Innovation, 2010, Wireless Sensor Network, Yan Wu

- 8Power, 2016, Energy Harvesting and MEMS strain device, Yu Jia, Ashwin Seshia and Jize Yan
- Utterberry, 2015, Wireless Sensor Network, Heba Bevan
- CSattAR, 2016, Digital Image Correlation, Mehdi Alhaddad

Awards/Honors	
---------------	--

1989	Murata Overseas Scholarship
2002	Jennings Award (The South African Institution of Civil Engineers)
2002	Schofield Award (International Journal of Physical Modelling in Geotechnics)
2006	George Stephenson Medal (Institution of Civil Engineers)
2006	Jennings Award (The South African Institution of Civil Engineers)
2007	Geotechnique Lecture, British Geotechnical Association
2007	Walter L. Huber Civil Engineering Research Prize (American Society of Civil Engineers)
2007	Russell Crampton Prize (Institution of Civil Engineers)
2007	Fellow, Institution of Civil Engineers, UK
2010	Telford Gold Medal (Institution of Civil Engineers)
2012	Fellow, School of Engineering, University of Tokyo
2012	Best Lecturer, Department of Engineering, University of Cambridge
2013	Best paper award, the Thirteenth IAPR International Conference on Machine Vision Applications
2013	Fellow, Royal Academy of Engineering, UK
2013	Croce Lecture, Italian Geotechnical Association
2014	Best paper award, The 5th International Forum on Opto-electronic Sensor-based Monitoring in Geo-
	engineering, Nanjing, China
2015	Osterberg Lecture, Northwestern University
2015	Russell Crampton Prize (Institution of Civil Engineers)
2015	Skempton Lecture, European Conference on Soil Mechanics and Geotechnical Engineering
2015	Best paper award, 14th International Conference of the International Building Performance Simulation
	Association
2016	9th Lumb Lecture, Hong Kong Engineering Institute-University of Hong Kong
2016	International Collaboration Award, Japan Society of Civil Engineers
2016	Research Grant for Outstanding Researchers, Journal of Structural Integrity and Maintenance
2017	15th Jennings Memorial Lecture, South African Geotechnical Society
2017	Schiffman Lecture, Cornell University
2017	2016 Best Paper Award, ASCE Journal of Computing in Civil Engineering

Invited Visiting Appointments		
1997	Research fellow, COPPE, Federal University of Rio de Janeiro (May, two weeks)	
2001	Visiting associate professor, Colorado School of Mines (January-September)	
2001	Research fellow, Chiba Institute of Technology (March, one week)	
2005	Lecturer, Hokkaido University (February, one week)	
2005	Research fellow, City University of Hong Kong (March, one week)	
2006	Lecturer, Universitat Politecnica de Catalunya (July, two weeks)	
2007	Lecturer, Hokkaido University, Japan (January, two weeks)	
2007	Lecturer, Tokyo Institute of Technology (February, one week)	
2008	Research fellow, National Institute of Advanced Industrial Science and Technology (July, two weeks)	
2009	Thai Government Visiting Professorship (January, two weeks)	
2009	JSPS fellowship (March-May)	
2009	Research fellow, Deltares, the Netherlands (June-July)	
2010	Research fellow, EPFL, Switzerland (July)	
2010	Kwang-Hua Visiting Professor, Tongji University, China	
2010	Visiting Professor, University Teknologi Malaysia, Malaysia (December)	
2011	Visiting Professor, Sapienza - Università di Roma (August, December)	
2012	Visiting researcher, Tongji University, China, Shanghai Magnolia Grant (June)	
2012	Visiting Professor, University Teknologi Malaysia, Malaysia (June)	
2013	Guest Professor, Zhejiang University, China	
2014	Honorary Professor, University of Hong Kong	
2014	Guest Professor, Nanjing University, China	
2015	Distinguished YNU Professor, Yokohama National University, Japan	

2015

Guest Professor, Southeast University, China Distinguished YNU Professor, Yokohama National University, Japan 2017

Keynote/Theme lectures

	Keynote	International Conference on Physical Modelling in Geotechnics, Hong Kong		
	Lecture	Geotechnique Lecture, British Geotechnical Association, London		
	Plenary	6ICEG 2010 6th International Congress on Environmental Geotechnics, India		
	Keynote	Paymacotas Workshop on Tunnel Engineering-Instrumentation in Tunnels and Excavations,		
2010	Reynote	Barcelona		
2010	Keynote	International Symposium on Geomechanics and Geotechnics: From Micro to Macro (IS-Shanghai		
2010	Reynote	2010), Shanghai		
2010	Keynote 1st International Conference on Information Technology in Geo-Engineering (ICITG-Shang			
2010	regnote	2010), Shanghai		
2011	Keynote	EPSRC Energy Harvesting Network Workshop (Structural Monitoring)		
	Keynote	LimesNet Research Conference 2012, Bristol		
	Keynote	International Workshop on ICT in Geo-Engineering, Kyoto		
	Keynote	EC MEMSCON Workshop - Towards Intelligent Civil Infrastructure, Athens		
	Keynote	GEOTEC HANOI 2013, Hanoi		
	Keynote	Telford workshop on wireless sensor network, Aberdeen		
	Keynote	International Workshop on "Thermoactive Geotechnical Systems for Near-Surface Geothermal		
	•	Energy: from research to practice", Lausanne		
2013	Keynote	Géotechnique Symposium in Print on "Bio- and Chemo-Mechanical Processes in Geotechnical		
	•	Engineering", London		
2013	Lecture	Croce Lecture, Italian Geotechnical Association, Rome		
2014	Keynote	GeoShanghai International Conference 2014, Shanghai		
2014	Keynote	The Second International Smart Infrastructure Symposium, Osaka		
2014	Keynote	The 5th International Forum on Opto-electronic Sensor-based Monitoring in Geo-engineering (5th		
		OSMG-2014), Nanjing		
	Theme	The 7th International Congress on Environmental Geotechnics, Melbourne		
2015	Lecture	Osterberg Lecture, Northwestern University		
	Keynote	Ground Engineering Instrumentation and Monitoring, London		
	Keynote	2015 Korean Geotechnical Society National Convention, Seoul		
	Keynote	Workshop on Sensing and Information for Civil Infrastructure, Japanese Society of Civil Engineers		
	Keynote	NERC KE Workshop (remote monitoring of geotechnical assets), British Geological Survey		
2015	5 Keynote 6th International Conference on Advances in Experimental Structural Engineering (6AESE) and t			
		11th International Workshop on Advanced Smart Materials and Smart Structures Technology		
2015	***	(11ANCRiSST), University of Illinois- Urbana Champaign		
	Keynote	XVI European Conference on Soil Mechanics and Geotechnical Engineering, Edinburgh		
	Keynote	The 1st International Conference on Geo-Energy and Geo-Environment (GeGe2015), Hong Kong		
	Keynote	1st IMEKO TC-4 International Workshop on Metrology for Geotechnics, Benevento, Italy		
	Keynote	The 1st International Conference on Energy Geotechnics ICEGT 2016, Kiel, Germany		
	Lecture	9th Lumb Lecture, Hong Kong Engineering Institute-University of Hong Kong MPM 2017. The First International Conference on the Metapid Point Method for Medalling Language.		
2017	Keynote	MPM 2017 – The First International Conference on the Material Point Method for Modelling Large		
2017	Keynote	Deformation and Soil-Water-Structure Interaction, Delft EURO:TUN 2017, Innsbruck, Austria		
	Lecture			
	Lecture	15th Jennings Memorial Lecture, South African Geotechnical Society		
	Keynote	Schiffman Lecture, Cornell University The 2 nd International conference on Geo-energy and Geo-Environment, Hangzhou		
	Keynote			
	Keynote			
2017	Keynote	2017 Taiwan bi-annual geotechnical engineering conference, Taipei		
2017	Keynote	2017 ASCE Congress on Technical Advancement, Duluth, MN		
2017	Keynote	Ground Related Risk to Transportation Infrastructure, The Geological Society, London		
2017	Keynote	The Geotechnical Society of Singapore (GeoSS) conference, Singapore		
2017	110,11010	The Secretariate Society of Singapore (Geoss) conference, Singapore		

Editor

Editor-in-Chief, ICE-Proceedings - Smart Infrastructure and Construction, ICE Publishing (2016-)

- Editorial Board Member, Geomechanics and Geoengineering, An International Journal, Taylor and Francis (2005-), GeoRisk, Taylor and Francis (2006-), Geomechanics and Engineering, Techno-Press (2009-), Transportation Infrastructure Geotechnology (2014-), Geomechanics for Energy and the Environment, Elsevier (2015-), Underground Space, Elsevier (2015-), Rivista Italiana di Geotecnica (2015-), Journal of Hydrodynamics (2016-), Sustainable and Resilient Infrastructure (2016-)
- Past Editorial Board Member, Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers (2001-2009), Soils and Foundations, Japanese Geotechnical Society (2001-2005), Geotechnique, Institution of Civil Engineers (2003-2005), Vadose Zone Journal, Soil Science Society of America (2006-2007), Computers and Geotechnics, Elsevier (2010-2016)

Professional Activities (since 2010)

- Associate, Geotechnical Consulting Group, London (2015-present)
- Executive Member, Secretary, Technical Oversight Committee of ISSMGE (2010-present)
- *Vice-Chair*, International Technical Committee 308 on Energy Geotechnics, The International Society of Soil Mechanics and Geotechnical Engineering (2013-present)
- Secretary, International Technical Committee 105 on Macro and Micro Geomechanics, The International Society of Soil Mechanics and Geotechnical Engineering (2005-present)
- European Science Foundation College of Expert Reviewers
- Executive Member, Cambridge Centre for Smart Infrastructure and Construction (2011-2016)
- Member, UK Engineering and Physical Sciences Research Council (EPSRC) Peer Review College (2002-present)
- Advisory Board Member, International Press-In Association (2007-present)
- Member, Research & Secondments Committee, Royal Academy of Engineering (2015-2016)
- Board Member, British Geotechnical Association (2013-2016)
- President, UK section of the Japan Society of Civil Engineers (2005-2016)
- Steering board member, EPSRC Energy harvesting network (2009-2014)

Reviewing

- Reviewed papers for Geotechnique, ICE Geotechnical Engineering Journal, ASCE Geotechnical and Geoenvironmental Journal, ASTM Geotechnical Testing Journal, Canadian Geotechnical Journal, Journal of Contaminant Hydrology, AGU Water Resources Research, Granular Matters, European Journal of Mechanics A/Solids, Journal of Geophysical Research, Journal of Hazardous Materials, International Journal of Physical Modeling in Geotechnics, Advances in Water Resources, Geomechanics and Engineering, Geomechanics and Geoengineering, Mechanics of Materials and others
- Reviewed proposals for research councils (EPSRC, US NSF and international).
- External Ph.D. examiner Imperial College, University of Bristol, University of Sheffield, University College London, University of Montpellier, Loughborough University, University of Brighton, Ecole Polytechnique Fédérale de Lausanne, University of Southampton, University of Birmingham, Delft University of Technology, National University of Singapore, University Teknologi Malaysia, University of Padova, Hong Kong Polytechnic University, Universidad Politecnica de Catalunya, University of Hong Kong.
- External Examiner, University of Southampton, Civil Engineering BEng/MEng/MSc programme (2009-2013)
- External Examiner, University of Hong Kong, Civil Engineering, MSc programme (2011-2015)
- Panel member, Review of Department of Engineering, University of Oxford (2015)
- External Review Board Member, Graduate School of Frontier Sciences, University of Tokyo (2016)
- Advisory Board Member, Tokyo Institute of Technology (2009-present)
- Review Panel ERC for Bio-mediated and Bio-inspired Geotechnics (CBBG), National Science Foundation (2016)
- *NSF Review panel* Civil Infrastructure Systems

Teaching Activities

Current (University of California-Berkeley) Graduate CE270 Advanced Geotechnics

Graduate CE272 Numerical Modelling in Geomechanics

Past (University of Cambridge)

1st year Exposition

2nd year Seepage Experiment

2nd year Civil Engineering – Design and Construction of Underground Space

3rd year 3D1 Geotechnical Engineering I 3rd year 3D2 Geotechnical Engineering II 3rd year3D6 Environmental Geotechnics3rd year3D7 Finite Element Methods3rd yearSoil Mechanics – Consolidation and Shear Experiment3rd yearQuay Wall Design Project2rd yearQuay Wall Design Project

3rd year Civil Engineering Project - Engineering Geology

4th year Foundation Engineering

4th year Ground Engineering, Soil improvement

4th year Ground Engineering, Grouting

4th year Contaminated Land and Waste Containment

Postgraduate 5R7 Advanced Numerical Methods in Geomechanics

Administrative Activities

University of Cambridge

Head of the Geotechnical and Environmental Engineering Group (2013-2015)

Deputy Director for Research and Industrial Liaison, Cambridgense CDT (2014-2015)

Executive committee member, Future Infrastructure and Built Environment CDT (2014-2015)

Executive committee member, Integrated Photonic and Electronic Systems (IPES) (2010-2015)

Director of Studies in Engineering, Churchill College (1997 – 2013)

Director of Studies in Engineering, St Edmunds College (2003 – 2010)

Chairman of the Language Unit Committee, Engineering Department (2004-2008, 2010-2011)

4th year MEng Group Coordinator (2005-2008)

Member of the College Council of Churchill College (1998/1999)

4th year M.Eng. Projects Coordinator (2001-2003)

University of California, Berkeley

Member, Faculty Search Committee (2016)

Group leader, Systems Group, Department of Civil and Environmental Engineering (2017-2018)

Executive Committee, Department of Civil and Environmental Engineering (2017-2018)

Graduate Admission Committee, Department of Civil and Environmental Engineering (2017-2018)

Research Supervisions

Ph.D.

University of Cambridge

- 1. L.J. Potter (1996) Contaminant migration through consolidating soils (Co-supervisor)
- 2. M.B. Carrier (2000) Dielectric measurements over a wide frequency range in E-grade kaolin
- 3. C. Kechavarzi (2001) Physical modelling of immiscible multiphase flow porous media
- 4. S.K.A. Au (2001) Fundamental study of compensation grouting in clay
- 5. H. Coumoulos (2002) Centrifuge and numerical modelling of dense non-aqueous phase contaminants migration
- 6. S. Yimsiri (2002) Pre-failure deformation characteristics of soils: anisotropy and soil fabric.
- 7. S. Ratnam (2002) Development of a novel self-boring permeability measurement technique
- 8. E.T. Bowman (2002) Creep and ageing of dense granular materials
- 9. W.A. Waduge (2004) Evaluation of efficiency of air sparging in NAPL contaminated heterogeneous system
- 10. I. Kulasooriya (2005) Remediation of Dense Non-aqueous phase liquids using surfactant flushing; Mass flux approach
- 11. J.W.E. Page (2005) A mass flux and partitioning tracer concept for DNAPL source zone characterisation
- 12. T.E.B. Vorster (2005) The Effects of tunnelling on buried pipes (Co-supervisor)
- 13. J. Wongsaroj (2006) Three-dimensional finite element analysis of short and long-term ground response to open face tunnelling in stiff clay
- 14. T.P. Cheong (2006) Numerical modeling of soil-pipeline interaction
- 15. H. Ji (2008) Physical modeling of jet grouting processes
- 16. K. Gafar (2008) Compensation Grouting in Sand
- 17. M.Y.A. Ng (2008) Modelling hydraulic fracturing in cement bentonite geomaterials
- 18. H. Mohamad (2008) Distributed optical fibre strain sensing of geotechnical structures
- 19. P. Nikolopoulos (2008) Non-aqueous phase liquid pollutant in natural soils and its long-term risk after remediation
- 20. K. Joshi (2009) Long-term Engineering Performance and In-Situ Assessment of Cement-Bentonite Cut-off Walls
- 21. A. Y. Leung (2010) Foundation optimization and its application to pile reuse
- 22. D. Robert (2010) Soil-pipeline interaction in unsaturated soils
- 23. R. Laver (2010) Long-term behaviour of twin-tunnels in London Clay

- 24. L. Liu (2011) Disturbance Analysis of the Self Boring Pressuremeter Tests
- 25. A. Al Qabany (2011) Microbial Carbonate Precipitation in Soils
- 26. K. Chaiyasarn (2011) Detection and monitoring of damage for tunnel inspection based on computer vision
- 27. K. Janmonta (2011) Monitoring of ground movements using optical fibres
- 28. C.S. Gue (2012) Submarine landslide flows simulation through centrifuge modelling
- 29. L. Hughes (2012) Effects of alignment on CO₂ emissions from the construction and use phases of a highway
- 30. K. Ellison (2012) Constitutive modelling of a heavily overconsolidated clay
- 31. S. Uchida (2012) Numerical investigation of geomechanical behaviour of hydrate-bearing sediments
- 32 S. Bandara (2013) Material point method to simulate large deformation problems in fluid-saturated granular medium
- 33. D. Garber (2013) Ground source heat pump system models in an integrated building and ground energy simulation environment
- 34. Y. Ouyang (2013) Geotechnical behaviour of energy piles
- 35. T. Schwamb (2014) Performance monitoring and numerical modelling of a deep circular excavation
- 36. Z. Li (2014) Long-term behaviour of cast-iron tunnel cross passage in London clay
- 37. K. Kumar (2014) Multi-scale multiphase modelling of granular flows
- 38. E. Xu (2014) Numerical analysis of wellbore behaviour during methane gas recovery from hydrate bearing sediments
- 39. Y. Rui (2014) Finite element modelling of thermal piles and walls
- 40. O. Dawoud (2015) The applicability of microbially induced calcite precipitation (MICP) for soil treatment
- 41. Y. Zheng (2015) Application Potential of Shallow Geothermal Energy at City Scale
- 42. M. Zhou (2015) Geomechanical study of hydrate-bearing sediments with turbidite formation and hydrate heterogeneity
- 43. Q. He (2015) Thermal performance of energy geotechnical structures
- 44. N. Jiang (2016) Microbially Induced Calcite Precipitation for the Mitigation of Soil Internal Erosion and Sand Production
- 45. J. Fern (2016) Constitutive Modelling of Unsaturated Sand and its Application to Large Deformation Modelling
- 46. M. Alhaddad (2016) Photogrammetric monitoring of cast iron tunnels and applicability of empirical methods for damage
- 47. M. Wilcock (2016) The Behaviour of Existing Segmental Cast Iron Tunnel Linings Subject to Ground Movement from New Tunnelling
- 48. Y. Yu (2016) Signal Processing of Brillouin Distributed Optical Fibre Sensors
- 49. J. Wong (2017) Three-dimensional multi-scale hydraulic fracturing simulation in heterogeneous material using Dual Lattice Model
- 50. T. Kobayashi (on-going) Submarine landslide modeling
- 51. M. Nakashima (on-going) Performance of sprayed concrete lined tunnel
- 52. H. Bevan (on-going) Ultra low power wireless sensor network system
- 53. X. Lu (on-going) City scale modelling of low grade geothermal energy
- 54. Y. Mei (on-going) Distributed fibre optic strain sensing for geotechnical application
- 55. B. Li (on-going) Dynamic fibre optics strain measurement
- 56. L. Luo (on-going) BOTDR based strain sensing
- 57. G. Casey (on-going) Whole life carbon assessment of infrastructure
- 58. S. Kularathna (on-going) Wellbore integrity modelling
- 59. T. Feng (on-going) Wireless Sensor Monitoring of civil engineering infrastructure
- 60. H. Mallikarachchi (on-going) Subsea soil-pipeline interaction
- 61. B. Zhao (on-going) City-scale modelling of transport infrastructure maintenance
- 62. V. Di Murro (on-going) Long-term performance of CERN tunnel
- 63. A. Murphy (on-going) Sand production in wellbores and its prevention
- 64. Y. Wang (on-going) Bacteria transport in porous material
- 65. H. Luo (on-going) Methane Hydrate Modelling

University of California, Berkeley

66. E. Y. Setiasabda (on-going), Material Point Method

M.Phil&M.Sc.

University of Cambridge

- 1. M.T. Cheong (2003) Influence of underground excavation on compaction grouting in soft clay
- 2. T.P. Cheong (2003) Numerical analysis of 3D soil-pipeline interaction
- 3. K. Gafar (2004) Modelling of soil-grout interaction
- 4. H. Mori (2008) Numerical modeling of river levee failures

- 5. S. Uchida (2008) Soil fractures around wellbores
- 6. L. Cheung (2008) Fiber optic strain measurement for monitoring tunnel lining movements
- 7. W. Au (2010) An experimental study of compensation grouting in silt
- 8. H. Luo (2014) Experimental and numerical investigation on fresh cement deformation behavior
- 9. K. Suda (2016) Geomechanical study of shallow water carbonate formation

Research Associates

University of Cambridge

- 1. Dr. M.F. Bransby, Effect of pore fluid viscosity on stiffness and damping of sands, 1/96-6/96
- 2. Dr. E. Ellis, Effect of pore fluid viscosity on liquefaction of sands, 1/97-6/97
- 3. Dr. G.R. Dasari, Numerical implementation of advanced soil models into ABAQUS and modelling of soil-pipeline interaction problems, 4/97-3/00
- 4. Dr. M.W. Gui, Development of instrumented drilling system, 10/97-9/99
- 5. Dr. K. Komiya, Development of finite element program to simulate shield tunnelling process, 5/98-3/99
- 6. Dr. S. Gourvenec, co-superviser, Investigation of soil condition around an old London Underground tunnel, 4/98-3/00
- 7. Dr. B.C. Hawlader, Development of hollow cylinder torsional shear system and constitutive modelling of natural soils, 11/98 9/00
- 8. Dr. M.R. Jafari, Experimental investigation of compensation grouting, 9/98-1/01
- 9. Dr. C. Kechavarzi, Soil testing using a hollow cylinder torsional shear apparatus, 3/01 9/01, 3/03-9/04
- 10. Dr. S. Ratnam, Assessment and monitoring of ageing infrastructure, 6/02-11/02
- 11. Dr. E.T. Bowman, Royal Academy of Engineering Research Fellow, Debris flows, 7/02-8/05
- 12. Dr. S.W. Jacobsz, Development of wireless sensor network system to monitor tunnel deformation, 5/03-9/03
- 13. Dr. A. Spasojevic, Numerical modelling of soil liquefaction, 4/03-5/05
- 14. Dr. P. Bennett, Fibre optic strain measurements, 4/04-9/09
- 15. Dr. A. Klar, Gashydrate modelling, 4/05-3/06
- 16. Dr J. Ransley, Micro-Electro-Mechanical Sensors and Power Harvesting, 10/06 09/07
- 17. Dr Binod Amatya, Smart Foundations, 12/06 05/09
- 18. Dr Jize Yan, Micro-Electro-Mechanical Sensors and Power Harvesting, 03/08 12/15
- 19. Dr Dedy Loebis, Power harvesting, 07/07 12/08
- 20. Dr Guoliang Ye, Power harvesting, 03/09 03/11
- 21. Dr. Mohammed Elshafie, Fibre optics monitoring, 07/09-07/11
- 22. Dr Sarfraz Nawaz, Cambridge Centre for Smart Infrastructure and Construction, 01/12-10/15
- 22. Dr Loizos Pelecanos, Cambridge Centre for Smart Infrastructure and Construction, 01/13-07/16
- 23. Dr Seda Torisu, Crossrail KTP, 06/10-05/13
- 24. Mr Mohamad Alserdare, Crossrail KTP, 08/11-07/13
- 25. Dr Cedric Kechvarzi, Cambridge Centre for Smart Infrastructure and Construction, 01/13-present
- 26. Dr Alex Rohe, MPM Dredge Project, 04/13-03/14, 10/15-12/15
- 26. Dr Xiaomin Xu, Cambridge Centre for Smart Infrastructure and Construction, 03/13-present
- 27. Dr Joost Breedeveld, MPM Dredge Project, 02/14-05/14
- 27. Dr Yunfeng Gu, WSN for gas monitoring, 02/14 02/15
- 28. Dr David Rodenas, Cambridge Centre for Smart Infrastructure and Construction, 02/14-present
- 29. Dr Varindra Kumar, WSN hardware development, 10/14-04/16
- 30. Dr Sinan Acikgoz, London Bridge station project, 10/14 present
- 31. Dr Krishna Kumar, CSIC&BG project, 4/14 present
- 32. Dr Yi Rui, CSIC, 6/14 present
- 33. Dr Bruno Zuada Coelho, MPM Dredge Project, 10/15-12/15
- 34. Dr Alba Yerro, MPM Dredge Project, 11/15 06/17

University of California, Berkeley

- 35. Dr James Fern, 3/17-present
- 36. Dr Amr Ewais, 3/17-present

Visiting researchers

University of Cambridge

- 1. Dr. N. Komiya (Waseda University, Japan), 5/98-3/99
- 2. Dr. S. Shu (Jilin University, China), 10/98-9/99
- 3. Dr. I. Kobayashi (Tokyo Institute of Technology), 5/99-3/00

- 4. Dr. J. Kawabata (Kajima Corporation, Japan), 5/99 6/00
- 5. Dr. S. Karim (University of Twentee, the Netherlands), 6/99-8/99
- 6. M. Kobayashi (Tokyo Gas, Japan), 11/99-12/99
- 7. Prof. K. Okada (Kokushikan University, Japan), 4/00-8/00
- 8. Dr. T. Hori (National Institute for Rural Engineering, Japan), 3/02&10/02
- 9. Dr. A.C. Mesquita (Federal University of Rio de Janeiro COPPE, Brazil), 4/02-3/03
- 10. Prof. A. Klar (Technion Israel Institute of Technology, Israel), 7/03 3/05
- 11. Prof. S. Burns (University of Virginia), 10/03-12/03
- 12. M. Buono Mascagni (Politecnico di Torino), 9/04-11/04
- 13. S. Giardino (Politecnico di Torino), 9/04-10/04
- 14. Prof. David Zheng (Tienjin University), 10/04-9/05
- 15. Dr Fuminao Okumura (Japan Railway Technical Research Institute), 10/05-05/06
- 16. Mohammad Norouz-Oliaei (Sharif University of Technology), 10/05-08/06
- 17. Prof. Toru Inui (Kyoto University), 05/06-03/07
- 18. Chikara Hirai (Japan Railway Technical Research Institute), 09/06-08/07
- 19. Prof. Taro Uchimura (University of Tokyo), 10/06-09/07
- 20. Prof. Andrew Whittle (MIT), 01/07-07/07
- 21. Prof. Carlos Santamarina (Georgia Tech), 07/07
- 22. Dr Yusuke Kobayashi (Japan Railway Technical Research Institute), 09/07-09/08
- 23. Dr. Wan Zuhairi Wan Yaacob (Universiti Kebangsaan Malaysia), 09/07-12/07
- 24. Keita Abe (Japan Railway Technical Research Institute), 09/08-09/09
- 25. Prof. Kerop Janoyan (Clarkson University), 02/09 07/09
- 26. Prof. Masafumi Okawara (Iwate University), 10/08 03/09
- 27. Prof. Motohei Kanayama (Kyushu University), 07/08-08/08, 02/09 03/09, 08/09-09/09
- 28. Prof. Shinya Nakamura (Ryukyu University), 02/09 03/09
- 29. Luca Masini (University of Rome), 07/08-08/08, 01/09-04/09
- 30. Prof. Xiaojun Li (Tongji University) 08/09
- 31. Akio Hada (Japan Railway Technical Research Institute), 09/09-09/10
- 32. Prof. Liyuan Tong (Southeast University) 09/09-09/10
- 33. Eric Diao (Tienjin University) 09/09-08/10
- 34. Prof. Katsuya Okada (Kokushikan University) 04/10-09/10
- 35. Dr. Kiwamu Tsuno (Japan Railway Technical Research Institute), 09/10-09/11
- 36. Fei Wang (Tongji University) 10/10-09/11
- 37. Prof. Fuxue Sun (Wenzhou University) 10/11-9/12
- 38. Prof. Jun Jiang (Zhejiang University) 10/11-9/12
- 39. Xia Bian (Southeast University) 2/12-1/13
- 40. Xuesong Cheng (Tianjin University) 10/12-9/13
- 41. Satoko Ryuo (Japan Railway Technical Research Institute), 9/11-9/12
- 42. Dr Yoshiharu Asaka (Shimizu Corporation), 10/11-9/12
- 43. Jiajie Ma (University of Western Australia), 2/12-5/12
- 44. Prof Jeff Evans (Bucknell University), 10/12-3/13
- 45. Dr Xiaomin Xu (UCL/Zhejiang University), 5/12-5/13
- 46. Kyosuke Yasuda (Japan Patent Agency), 7/12-6/13
- 47. Dr Tsukasa Mizutani (University of Tokyo), 7/12-8/12
- 48. Prof Bin He (Tongji University), 6/12-9/12
- 49. Prof Kohei Araki (Kyushu University), 10/12-12/12
- 50. Dr Tatsuya Nihei (Japan Railway Technical Research Institute), 9/12-9/13
- 51. Prof Fei Yi (Chang'an University) 10/12-9/13
- 52. Prof Dan Zhang (Nanjing University) 03/13-02/14
- 53. Koshiro Saito (Japan Patent Agency), 7/13-6/14
- 54. Dr Munenori Shibata (Japan Railway Technical Research Institute), 9/13-9/14
- 55. Prof. Cheol Ju Lee (Kangwon National University), 10/13-9/14
- 56. Dr Jaeyeon Cho (Yonsei Unviersity), 4/14-3/15
- 57. Prof. Young Seok Kim (Korea Institute of Construction Technology (KICT)), 6/14-5/15
- 58. Prof Hong-Hu Zhu (Nanjing University), 10/14-9/15
- 59. Prof Tom O'Rourke (Cornell University), 10/14-12/14
- 60. Chuanhu Zhang (Tsinghua University), 11/14-11/15

- 61. Dr Jimeng Feng (Southwest Jiaotong University), 2/15-1/16
- 62. Yuelang Jin (Tongji University), 3/15-2/16
- 63. Dr Seiji Yamada (Japan Railway Technical Research Institute), 2/15-8/15
- 64. Olga Mikhaylova (University of Melbourne), 10/15-2/16
- 65. Xiang Sun (Dalian Institute of Technology), 11/15-04/16
- 66. Yishu Wang (Hohai University), 11/15-10/16
- 67. Caijie Tang (BIACD) 11/15-12/15
- 68. Haizuo Zhou (Tianjin University) 11/15-10/16
- 69. Professor Chao-Sheng Tang (Nanjing University), 12/15-11/16
- 70. Professor Jason DeJong (University of California, Davis), 1/16-6/16
- 71. Professor Kazuyuki Hayashi (Wakayama College), 4/16-9/16

University of California, Berkeley

- 72. You Tian (Tsinghua University), 2/16-2/17
- 73. Guido Andreotti (University of Pavia), 9/16-12/16
- 74. Dr. Tzu-Hsuan Lin (Sinotech Inc), 10/16-9/17
- 75. Xiaorong Xu (Tsinghua University), 10/16-9/17
- 76. Dr. Xinnan Gao (Nanjing Agricultural University), 2/17-present

Research Collaboration

As invited visiting professor/researcher: Federal University of Rio de Janeiro, Brazil (March 1996), National Institute of Rural Engineering, Japan (August 1999), Chiba Institute of Technology, Japan (March 2000), Colorado School of Mines, USA (January -September 2001), Japanese Public Works Research Institute (January 2004), City University of Hong Kong (March 2005), Kyoto University, Japan (April 2005), Universitat Politecnica de Catalunya (July 2006), Hokkaido University, Japan (January 2007), Tokyo Institute of Technology (February, 2007), Georgia Institute of Technology/DOE/USGS (March 2008), National Institute of Advanced Industrial Science and Technology (August 2008), Chulalongkorn University (January 2009), Kyoto University (March-May 2009), Deltares (June-July 2009), EPFL (July 2010), University Teknologi Malaysia (2010, 2012), Tongji University (August 2010, June 2013), University of Rome (August and December, 2011), Zhejiang University (July 2013), University of Hong Kong (January 2014), Nanjing University (October 2014), Yokohama National University (June&July 2015), Southeast University (December, 2015), Cambridge University (May&June, 2017), CERN (June 2017), Yokohama National University (July 2017)

I have/had collaborative research with the following academic institutions and companies.

Academic/research institutions: Imperial College, University College London, Colorado School of Mines, University of Colorado-Boulder, Massachusetts Institute of Technology, Cornell University, Georgia Institute of Technology, University of California-Davis, University of Western Australia, Technical University of Delft, University of Montpellier, University of Bochum, Kyoto University, University of Tokyo, Tokyo Institute of Technology, Chiba Institute of Technology, Iwate University, Waseda University, National University of Singapore, University of Hong Kong, National Institute of Advanced Industrial Science and Technology, National Institute of Rural Engineering, Public Works Research Institute, Port Harbour Airport Research Institute, Railway Technical Research Institute, Czech Technical University in Prague, Consiglio Nazionale delle Ricerche, Universidad Politecnica de Catalunya, Tongji University, Zhejiang University, Tianjin University, Nanjing University and Tsinghua University.

Companies: UK Highways Agency, Building Research Establishment, Schlumberger, BP, BG, Cambridge Insitu, London Underground Ltd., Tubelines, Metronet, Transport for London, Thames Water, Yorkshire Water, United Utilities, Cementation Skanska, Arup, Mott MacDonald, Atkins, Brown and Root Civil, Geotechnical Consulting Group, Buro Happold, ITM, CrossRail, Geothermal International, National Grid, CERN, Aeroflex, Rolatube, Costain, GE Aviation, CH2MHill, Network Rail, Insitu Integrity, Soletanche-Bachy, Deltares, Tractebel Engineering, Chemex International Ltd., JOGMEC, Nishimatsu Construction, Kajima Corporation, Shimizu Corporation, Tokyo Gas, Mitsubishi Heavy Industry, Toshiba, Topcon and Sankyong Construction.

Organising/Scientific Committee

- 2018 4th GeoShanghai International Conference, Organizing Committee
- 2018 The 8th International Congress on Environmental Geotechnics (ICEG2018), International Advisory Committee
- 2018 The 7th World Conference on Structural Control and Monitoring, International scientific committee
- 2017 Southeast University Symposium, International Advisory committee
- 2017 EURO: TUN 2017 conference, Scientific Advisory Committee

- 2017 1st International Conference on the Material Point Method for Modelling Large Deformation on Soil-Water-Structure Interaction, Delft, Scientific Committee and Local Organising Committee
- 2016 1st Asian Conference on Railway Infrastructure and Transportation, Scientific committee
- 2016 Fifth International Conference on Forensic Geotechnical Engineering, Advisory Committee
- 2016 1st International Conference on Natural Hazards and Infrastructure: Protection, Design, Rehabilitation, Steering Committee
- 2016 International Conference on Smart Infrastructure and Construction, Cambridge, Organiser
- 2016 Asia-Pacific-Euro Summer School on Smart Structures Technology, Cambridge, APESS 2016, Organiser
- 2016 International Mini Symposium CHUBU (IMS-CHUBU), the International Technical Committee
- The 15th World Conference of Associated research centers for the Urban Underground Space, ACUUS 2016, Scientific Committee
- 2015 UK-Japan Workshop on Ageing Transport Infrastructure Management, British Embassy, Tokyo, Organsier
- 2015 6th International Conference on Advances in Experimental Structural Engineering (6AESE) and the 11th International Workshop on Advanced Smart Materials and Smart Structures Technology (11ANCRiSST), University of Illinois- Urbana Champaign, Scientific Committee
- 2015 CSIC-University of Tokyo Joint workshop on Sensing and Data-utilisation for Infrastructure, Organiser
- 2015 International Symposium on Geohazards and Geomechanics, Scientific Committee
- 2015 The Cambridge conference on wireless sensor network for civil infrastructure, Organiser
- 2015 The Fifth International Symposium on Geotechnical Safety and Risk (ISGSR), International Advisory Committee
- The 5th International Forum on Opto-electronic Sensor-based Monitoring in Geo-engineering (5th OSMG-2014), Academic Committee
- 2014 TC105 IS-Cambridge International Symposium on Geomechanics from Micro to Macro, Cambridge, Chairman
- 2014 The Cambridge Conference on Fibre Optic Sensing in Civil Infrastructure, Organiser
- 2014 NSF International Workshop on Geotechnical Engineering Education Soil-environment interactions across scales: key challenges for future geo-engineers, Organiser
- 2014 14th International Conference of the International Association for Computer Methods and Advances in Geomechanics (14IACMAG), Kyoto, Session Chair
- 2014 The 2nd CSIC-JSPS International Smart Infrastructure Symposium, Osaka, Organiser
- 2013 ECCOMAS Thematic Conference on "Computational Methods in Tunnelling" (EURO:TUN 2013), Organiser
- 2012 CSIC-JSPS International Smart Infrastructure Symposium, Cambridge, Organiser
- 2012 CISM (International Centre for Mechanical Sciences) course Multiscale Mechanics of Granular Materials, Organiser
- 2012 2nd International Conference on Transportation Geotechnics, International Advisory Committee
- 2012 Geotechnique Symposium in print, Organising committee
- 2011 NSF Bio-Soil Interactions and Engineering Workshop, Principal Organiser
- 2011 ASCE Geofrontiers, Session Organiser, Energy Foundations
- 2011 ASCE Geofronties, Session Organiser, Bio-soil interaction
- 2010 ICITG Shanghai 2010: 1st International Conference on Information Technology in Geo-Engineering, International Academic Committee
- 2010 EPSRC WINES Smart Infrastructure Showcase event, Cambridge, Principal Organiser
- 2010 ASCE GeoFlorida 2010: Advances in Analysis, Modeling and Design, International Advisory Committee
- 2010 IS-Shanghai International Symposium on Geomechanicsand Geotechnics: From Micro to Macro, International Advisory Committee
- 2010 7th International Conference on Physical Modelling in Geotechnics, International Advisory Committee
- 2009 EURO:TUN, Computational Methods in Tunnelling, International Advisory Committee
- 2008 ESF/NSF workshop on Energy, Principal Organiser
- 2008 ASCE GeoCongress, Session Organiser, Soil-Bio Interaction and Engineering
- 2008 ESF/NSF workshop on Sensor Networks for Civil Infrastructure Systems, Principal Organiser
- 2008 ICE-JSCE workshop on new trends of seismic geotechnical design based on performance and life cycle analysis, Principal Organiser
- 2007 EPSRC/NSF Bio-Soil Interactions and Engineering Workshop, Principal Organiser
- 2007 Geotechnique Symposium in print, Organising committee
- 2006 International Congress on Environmental Geomechanics, Organising committee
- 2006 ASCE GeoCongress2006, Session Moderator
- 2006 Cambridge-MIT Institute Workshop on wireless sensor network, Co-organiser

2005 EPSRC/NSF workshop of microgeomechanics, Co-organiser

2004 Innovation in Monitoring and Management of Ageing Infrastructure, Principal organiser

2002 1st International Workshop on New Frontiers in Computational Geotechnics, Scientific Committee

Speaker/Seminar (since 2010)

	nar (since 2010)	
2017	Varmata	MDM 2017 The First International Conference on the Metarial Point Method for
January	Keynote	MPM 2017 - The First International Conference on the Material Point Method for
T	T	Modelling Large Deformation and Soil-Water-Structure Interaction, Delft
January	Invited speaker	UC Pacific Rim Forum, University of California, Berkeley
February	Seminar	University of California, Davis
March	Lecture	Jennings Memorial Lecture, Pretoria, Durban and Cape Town, South Africa
April	Panelist	Geotechnical Women Faculty - Networked and Thriving Workshop, Washington DC
April	Seminar	Rensselaer Polytechnic Institute
April	Lecture	17th Robert L. Schiffman Geotechnical Engineering Colloquium, Cornell University
April	Keynote	EURO:TUN 2017, Innsbruck, Austria
May	Lecture	Enel Program, UC Berkeley
July	Keynote	The 2 nd International conference on Geo-energy and Geo-Environment, Hangzhou
July	Keynote	2nd International Workshop on Resiliency of Urban Tunnels and Pipelines, Shanghai
July	Keynote	The 13th International Workshop on Advanced Smart Materials and Smart Structural Technologies, Tokyo
July	Lecture	Ministry of Land, Infrastructure, Transport and Tourism, Tokyo
July	Lecture	Kajima Corporation, Tokyo
July	Lecture	Yokohama National University, Yokohama
•		Kobe University, Kobe
July	Lecture	Los Angeles Department of Water and Power
August	Lecture	Los Angeles Department of Water and Fower
2016		
February	Seminar	University of California-Berkeley
February	Seminar	Arup, San Francisco Office
March	Keynote	1st IMEKO TC-4 International Workshop on Metrology for Geotechnics, Benevento, Italy
March	Keynote	Mott MacDonald Geotechnical Forum, Cambridge
April	Seminar	University of Sheffield
May	Invited Speaker	34th Annual Geo-Engineering Distinguished Lecture Series, San Francisco
May	Invited Speaker	International Workshop on Modern Trends in Geomechanics, Assisi
May	Seminar	University of L'Aquila
June	Seminar	University of Cambridge
June	Invited Speaker	Kyoto Seminar 2016 : Developments in Earthquake Geotechnics
	Seminar	University of Padova
June	Lecturer	2016 Asia-Pacific-Euro Summer School on Smart Structures Technology, Cambridge
June	Lecturer	5 th International Summer School on Smart Materials and Structures, Trento
July		NSF Workshop on Geotechnical Fundamentals in the face of new world challenges
July	Invited Speaker	
August	Speaker	Army Research Office Workshop on Physical, Mathematical, and Computational Aspects Related to Soil Modeling and Simulation
August	Keynote	The 1st International Conference on Energy Geotechnics ICEGT 2016, Kiel, Germany
August	Seminar	BJAN (Berkeley Japanese Academic Network) Seminar, Berkeley
September	Seminar	Swarm Laboratory, Berkeley
September	Seminar	Geosyntec, Oakland
October	Seminar	CITRIS research exchange seminar series, Berkeley
October	Speaker	CEGA third annual Measurement Conference: Infrastructure Monitoring, Berkeley
November	Lecturer	9th Lumb Lecture, University of Hong Kong
November	Seminar	Shenzhen Geotechnical Investigation & Surveying Institute Co., Ltd., China
December	Seminar	Pacific Consulting, Tokyo, Japan

		Curriculum Vitae
February	Lecture	Micromechanics Seminar, University of Cambridge
March	Seminar	Department of Civil and Environmental Engineering, University of California at Berkeley
March	Keynote	Korean Geotechnical Society Annual Convention, Seoul
March	Keynote	The Sixth Instrumentation and Monitoring Conference, London
April	Seminar	Department of Civil and Environmental Engineering, University of Illinois at
		Urbana-Champaign
April	Lecture	Osterberg Lecture, Northwestern University
May	Invited Speaker	7th International Conference on Porous Media, Padova, Italy
June	Invited Speaker	International Symposium on Energy Geotechnics, Barcelona
June	Keynote	Workshop on Sensing and Information for Civil Infrastructure, Japanese Society of Civil Engineers
June	Lecture	Yokohama National University, Yokohama, Japan
June	Lecture	Hitachi Central Research Laboratory, Kokubunji, Japan
June	Seminar	School of Civil Engineering & Geosciences, Newcastle University
June	Speaker	The Cambridge conference on wireless sensor network for civil infrastructure, Cambridge
July	Keynote	NERC/CSIC Workshop on remote monitoring of geotechnical assets, British
		Geological Survey, London
July	Keynote	YHU-IAS/JGS Symposium on Risk and Geotechnical Engineering, Yokohama
July	Speaker	CSIC-University of Tokyo Symposium on Sensing and Data-utilisation for
		Infrastructure
July	Invited Speaker	Seminar on exporting infrastructure systems, the Ministry of Land, Infrastructure,
		Transport and Tourism, Japan
August	Keynote	6th International Conference on Advances in Experimental Structural Engineering
		(6AESE) and the 11th International Workshop on Advanced Smart Materials and
		Smart Structures Technology (11ANCRiSST), University of Illinois- Urbana
~ .		Champaign
September	Keynote	XVI European Conference on Soil Mechanics and Geotechnical Engineering,
C	I	Edinburgh
September	Invited Speaker	The First Cambridge Workshop on Energy Transport and Urban Infrastructure
September	Invited Speaker	Workshop on Numerical Methods of Water-Soil Boundary Layers under Currents and Waves, Hamburg
October	Speaker	ACTUE Workshop on "Recent Advances in Tunnelling", Salzburg
October	Invited Speaker	Soil-Plant-Atmosphere-Continuum 2015 Conference, Rothamsted Research
October	Invited Speaker	Sensors Day 2015, Cambridge
November	Speaker	FPS-Crossrail Lessons Learnt Conference, London
December	Lecture	Beijing Institute of Aerospace Control Devices (BIACD)
December	Lecture	Nanjing University
December	Lecture	Southeast University
December	Keynote	The 1st International Conference on Geo-Energy and Geo-Environment (GeGe2015),
Dagamban	Invited Casalran	Hong Kong
December	Invited Speaker	UK-Japan Workshop on Ageing Transport Infrastructure Management, British
December	Lecture	Embassy Japan Railway Technical Research Institute
December	Lecture	Japan Ranway Technical Research institute
2014		
January	Lecture	University of Hong Kong, Hong Kong
	Lecture	Hong Kong University of Science and Technology, Hong Kong
	Lecture	Hong Kong Institution of Engineers, Hong Kong
	Lecture	JOGMEC, Chiba
February	Lecture	Thames Tideway Tunnel, London
March	Panelist	GE Instrumentation and Monitoring conference, London
May	Keynote	GeoShanghai 2014, Shanghai
June	Speaker	The Cambridge Conference on Fibre Optic Sensing in Civil Infrastructure,
		Cambridge

June Invited speaker International Conference on Multi-hazard Approaches to Civil Infrastructure

Engineering

(ICMAE), Chicago

July Invited speaker Conference on "Modeling Granular Media Across Scales", Montpellier

July Invited speaker Smart Infrastructure conference, Nikkei Shinbun, Tokyo

July Lecture Sumitomo Electric, Tokyo

September Keynote The 2nd International Smart Infrastructure Symposium, Osaka

October Keynote 5th International Forum on Opto-electronic Sensor-based Monitoring in

Geo-engineering, Nanjing

October Lecture Nanjing University, Nanjing
October Lecture Southeast University, Nanjing

October Lecture Geotechnical Consulting Group, London
October Invited speaker Geotechnical Asset Owners Meeting, Cambridge

November Lecture Graz University of Technology, Graz,

November Theme speaker 7th International Congress on Environmental Geotechnics, Melbourne

December Invited speaker MPM Dredge workshop, Cambridge

2013

January Keynote Symposium on Observational Method, Kyoto, Japan

March Keynote International Workshop "Thermoactive Geotechnical Systems for Near-Surface

Geothermal Energy: from research to practice", Lausanne

June Keynote Géotechnique Symposium in Print on "Bio- and Chemo-Mechanical Processes in

Geotechnical Engineering", London

June Theme lecturer EAGE Gas Hydrate Workshop, London

July General Report TC215 Symposium "Coupled Phenomena in Environmental Geotechnics," Torino

July Invited speaker International workshop "Geoengineering Energy Geo-Storage," Weimar

July Lecture Zhejiang University, China

August Invited speaker Yunnan Construction Group seminar, Churchill College, Cambridge

August Theme lecturer IEEE R10-HTC2013, Sendai, Japan

September Speaker ISSMGE Paris Conference September Session leader ISSMGE Paris Conference

September Lecture Mott MacDonald

September Invited speaker Tsinghua University, China

October Lecture PUC, Rio de Janeiro

October Lecture BG-Brazil

October Lecture CSIC – FO training event
October Invited speaker DNV annual seminar event

October Keynote Telford workshop on wireless sensor network

November Lecture IHI

November Keynote GEOTEC HANOI 2013, Hanoi
December Invited speaker GSHPA annual conference
December Lecture Croce Lecture, Rome
December Invited speaker MPM workshop, Deltares

2012

January Invited speaker RAEng-ICE event for innovation in Construction
February Seminar Cambridge Geotechnical Group seminars, Cambridge
February Invited speaker Yorkshire Geotechnical Group meeting, Sheffield

March Invited speaker Geotechnical Instrumentation and Monitoring 2012 conference, London

March Keynote EC MEMSCON Workshop - Towards Intelligent Civil Infrastructure, Athens

April Theme speaker NSF international workshop on Smart and Resilient Transportation Infrastructure,

Virginia Tech

April Seminar Virginia Tech, USA

May Keynote International Workshop on ICT in Geo-Engineering, Kyoto

May Special lecture Japanese Geotechnical Society "Construction in difficult ground" Committee

meeting

June Seminar Tongji University, Shanghai

June Lecture Laing O'Rourke Construction Technology Masters course

June Seminar University Teknologi Malaysia, Malaysia
June Seminar Engineering Institution of Malaysia
July Seminar Vlaamse Overheid, Belgium

July Invited speaker YELGIP workshop on Shallow Geothermal Energy Applications in Civil

Engineering

July Keynote LimesNet Research Conference 2012

September Lecture CISM (International Centre for Mechanical Sciences) course - Multiscale Mechanics

Of Granular Materials

September Lecture Hong Kong Institution of Engineers

September Speaker BP Institute Seminar September Speaker Arup Research Event

September Speaker Ground Source Heat Pump Association meeting

October Theme speaker New measurement methods in soil physics: future frontiers, Rothamsted

November Speaker TSB Sensing and Measurement for Infrastructure, London December Lecture Kunming University of Science and Technology, China

December Lecture Yunnan Provincial Science & Technology Department and Yunnan Academy of

Applied Technology, China

2011

January Invited speaker Symposium on Graduate Education, Tokyo Institute of Technology

January Invited lecturer JSPS/JETRO, London

January Invited lecturer University of Montpellier, France

February Invited lecturer East Midlands Geotechnical Group Seminar, Nottingham

March Invited lecturer Telford Medal Lecture, ICE, London

March Speaker ASCE GeoFrontiers Conference, Dallas, USA

March Invited Speaker 2011 International Conference on Low Carbon Energy and Climate Change,

Tsinghua University, China

April Lecturer Arup

May Keynote EPSRC Energy Harvesting Network Workshop (Structural Monitoring)

May Invited speaker BGA Recent Advances in Monitoring & Instrumentation with Emphasis on

Applications to Practical Engineering

May Invited speaker Geotechnical Asset Owners Meeting
May Invited speaker Piling and Foundations UK conference

May Invited speaker IS-Roma 7th International Symposium Geotechnical Aspects of Underground

Construction, Rome

May Invited speaker Modern Built Environment Network meeting, London

July Invited speaker International Workshop on Computational Models in Geomechanics and Tunneling,

Bochum

August Lecturer Tianjin University, China

September Discuss. Leader European Conference on Soil Mechanics and Geotechnical Engineering, Athens.

October Invited speaker ALERT workshop, Aussios
October Lecturer University of Rome, Italy

October Panelist 5th International Symposium on Submarine Mass Movements and Their

Consequences, Kyoto

November Invited lecturer Deltares, Delft

November Invited speaker Ground Source Heat Pump Association Seminar, Cambridge

November Invited lecturer Buro Happold

NovemberLecturerUniversity of Rome, ItalyDecemberInvited lecturerZhejiang University, ChinaDecemberInvited lecturerTongji University, China

January Invited speaker March Invited speaker April Invited speaker Invited speaker Invited speaker Invited lecturer May Invited speaker June Invited speaker Invited speaker June Invited lecturer September Keynote Invited lecturer September Keynote Invited lecturer September Keynote Invited lecturer October Invited lecturer October Keynote Invited Speaker Invited Speaker International Congress on Environmental Geotech November Invited Speaker International Symposium on Methane Hydrate Resources – from Mankai Trough, Tokyo			Currentum vi
January March March Invited speaker March Invited speaker April Invited speaker May Invited lecturer May Invited speaker June Invited speaker June Invited speaker Invited lecturer September September September Keynote Invited lecturer Cotober October October October October October Invited lecturer October October Invited lecturer October Invited speaker Invited lecturer October Invited lecturer October Invited lecturer October Invited lecturer October Invited speaker Invited sp	January	Invited speaker	Kyoto Seminar 2010: Geotechnics/Earthquake Geotechnics towards Global
March Invited speaker March Invited lecturer April Invited speaker Invited speaker Invited speaker May Invited lecturer May Invited speaker June Invited speaker Invited speaker Invited speaker Invited speaker Invited speaker July Invited lecturer September Invited lecturer September Invited lecturer September Keynote Invited lecturer October Keynote Invited lecturer October Keynote Invited lecturer October Invited speaker Invi			
March April Invited speaker April Invited Sp	January		
April Invited speaker Invited speaker May Organiser May Invited lecturer May Invited speaker June Invited speaker June Invited speaker July Invited lecturer July Invited lecturer September Invited lecturer September Keynote Invited lecturer October Invited lecturer October Keynote Invited lecturer October Invited lecturer October Keynote Invited lecturer October Keynote Invited lecturer October Keynote Invited lecturer October Invited lecturer October General Systems, Hydrate-Sedi International Conference on Information Technology in Geo-English (ICITG-Shanghai 2010), Shanghai October Invited lecturer October Keynote Invited Speaker October Invited Speaker October Invited Speaker October Invited Speaker October Invited Speaker Oceomber Inv	March		Cambridge-Kyoto Seminar, Cambridge
April Invited speaker April Invited speaker Invited speaker Invited speaker Invited speaker Invited speaker Invited lecturer May Invited speaker Invited speaker Invited speaker Invited speaker Invited speaker Invited speaker Invited lecturer July Invited lecturer September Invited lecturer September Keynote Invited lecturer October Invited speaker Invited lecturer October Invited speaker In	March	Invited lecturer	Columbia University, USA
April Invited speaker Condon May Organiser Smart Infrastructure showcase May Invited lecturer June Invited speaker Invited lecturer Fully Invited lecturer July Invited lecturer September Invited lecturer September Keynote Invited lecturer October Keynote Invited lecturer October Invited speaker Invited lecturer October Invited speaker Invited speak	April	Invited speaker	ESF S(3)T2010 Smart Structural System Technologies Workshop, Porto
May Organiser Invited lecturer May Invited speaker June Invited speaker June Invited speaker July Invited lecturer July Invited lecturer September Invited lecturer September Invited lecturer September Invited lecturer October Invited speaker Invited	April	Invited speaker	Wireless Sensors for Volcano Surveillance, Cambridge
May Organiser Smart Infrastructure showcase May Invited lecturer May Invited speaker Univited speaker Invited speaker Invited speaker Invited speaker Invited lecturer Invited lecturer Invited lecturer Invited lecturer Invited lecturer Invited lecturer September Invited lecturer September Invited lecturer Invited lecturer Invited lecturer September Invited lecturer Invited lecturer October Invited lecturer Ge / NCE Basements and Underground Structures conference, Lord (IS-Shanghai 2010), Shanghai October Invited lecturer October Keynote Invited lecturer October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary GICEG 2010 6th International Conference on geotechnical and engineering, Malaysia December Invited speaker Geotropika 2010: an international conference on geotechnical and engineering, Malaysia GAOF and MBE KTN workshop on remote sensing for transport in assets, London	April	Invited speaker	TNO workshop Geotechnical Advances in Urbal Renewal: Analysis & Design,
May Invited lecturer May Invited speaker Interaction and engineering, Japan Gordon Conference - Natural Gas Hydrate Systems, Hydrate-Sedi Interactions at Pore To Regional Scale, Maine, USA July Invited lecturer ALERT Olek Zienkiewicz Course 2010, EPFL, Switzerland Invited lecturer Masonry Arch Bridges Masterclass - Recent Developments, Bristo Tongji University, China September Keynote Ist International Conference on Information Technology in Geo-Englic (ICITG-Shanghai 2010), Shanghai October Invited lecturer GE / NCE Basements and Underground Structures conference, Lore (IS-Shanghai 2010), Shanghai October Invited lecturer Southeast University, Nanjing, China October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary GICEG 2010 6th International Congress on Environmental Geotech International Symposium on Methane Hydrate Resources – from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and engineering, Malaysia December Invited speaker GAOF and MBE KTN workshop on remote sensing for transport in assets, London	•	•	London
May Invited speaker June Invited speaker Invited speaker Gordon Conference - Natural Gas Hydrate Systems, Hydrate-Sedi Interactions at Pore To Regional Scale, Maine, USA July Invited lecturer July Invited lecturer September Invited lecturer September Keynote Ist International Conference on Information Technology in Geo-En (ICITG-Shanghai 2010), Shanghai October Invited lecturer Ge / NCE Basements and Underground Structures conference, Lor (IS-Shanghai 2010), Shanghai October Invited lecturer Ge / NCE Basements and Underground Structures conference, Lor (IS-Shanghai 2010), Shanghai October Invited lecturer Southeast University, Nanjing, China October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary 61CEG 2010 6th International Congress on Environmental Geotech International Symposium on Methane Hydrate Resources — from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and rengineering, Malaysia December Invited speaker Geotropika 2010: an international conference on geotechnical and rengineering, Malaysia GAOF and MBE KTN workshop on remote sensing for transport in assets, London	May	Organiser	Smart Infrastructure showcase
May Invited speaker June Invited speaker Invited speaker Gordon Conference - Natural Gas Hydrate Systems, Hydrate-Sedi Interactions at Pore To Regional Scale, Maine, USA July Invited lecturer ALERT Olek Zienkiewicz Course 2010, EPFL, Switzerland July Invited lecturer Masonry Arch Bridges Masterclass - Recent Developments, Bristo Tongji University, China September Keynote Ist International Conference on Information Technology in Geo-Englic (ICITG-Shanghai 2010), Shanghai October Keynote Invited lecturer GE / NCE Basements and Underground Structures conference, Lore (IS-Shanghai 2010), Shanghai October Invited lecturer Southeast University, Nanjing, China October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary 61CEG 2010 6th International Congress on Environmental Geotech Invited speaker Invited speaker Geotropika 2010: an international conference on geotechnical and rengineering, Malaysia December Invited lecturer University Teknologi Malaysia, Malaysia GAOF and MBE KTN workshop on remote sensing for transport in assets, London	May	Invited lecturer	Public Works Research Institute, Japan
June Invited speaker Gordon Conference - Natural Gas Hydrate Systems, Hydrate-Sedi Interactions at Pore To Regional Scale, Maine, USA July Invited lecturer ALERT Olek Zienkiewicz Course 2010, EPFL, Switzerland July Invited lecturer Masonry Arch Bridges Masterclass - Recent Developments, Bristo Tongji University, China September Keynote Ist International Conference on Information Technology in Geo-Englic (ICITG-Shanghai 2010), Shanghai October Invited lecturer GE / NCE Basements and Underground Structures conference, Longlic (IS-Shanghai 2010), Shanghai October Invited lecturer Southeast University, Nanjing, China October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary GICEG 2010 6th International Congress on Environmental Geotech International Symposium on Methane Hydrate Resources — from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and rengineering, Malaysia December Invited speaker Geotropika 2010: an international conference on geotechnical and rengineering, Malaysia Universiti Teknologi Malaysia, Malaysia GAOF and MBE KTN workshop on remote sensing for transport in assets, London	•	Invited speaker	Workshop on bio-soil interaction and engineering, Japan
Interactions at Pore To Regional Scale, Maine, USA July Invited lecturer Invited lecturer September Keynote Invited lecturer GE / NCE Basements and Underground Structures conference, Lor (ICITG-Shanghai 2010), Shanghai October Keynote International Symposium on Geomechanics and Geotechnics: From (IS-Shanghai 2010), Shanghai October Invited lecturer Southeast University, Nanjing, China October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary GICEG 2010 6th International Congress on Environmental Geotechnical Symposium on Methane Hydrate Resources — from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and rengineering, Malaysia December Invited speaker Universiti Teknologi Malaysia, Malaysia GAOF and MBE KTN workshop on remote sensing for transport in assets, London	•		Gordon Conference - Natural Gas Hydrate Systems, Hydrate- Sediment- Fluid
July Invited lecturer ALERT Olek Zienkiewicz Course 2010, EPFL, Switzerland July Invited lecturer Masonry Arch Bridges Masterclass - Recent Developments, Bristor September Invited lecturer Tongji University, China September Keynote Ist International Conference on Information Technology in Geo-Englic (ICITG-Shanghai 2010), Shanghai October Invited lecturer GE / NCE Basements and Underground Structures conference, Long (IS-Shanghai 2010), Shanghai October Invited lecturer Southeast University, Nanjing, China October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary 6ICEG 2010 6th International Congress on Environmental Geotech International Symposium on Methane Hydrate Resources — from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and engineering, Malaysia December Invited speaker GAOF and MBE KTN workshop on remote sensing for transport in assets, London		Ī	
July Invited lecturer September Invited lecturer September Invited lecturer Tongji University, China September Keynote Ist International Conference on Information Technology in Geo-Englic (ICITG-Shanghai 2010), Shanghai October Invited lecturer GE / NCE Basements and Underground Structures conference, Long (IS-Shanghai 2010), Shanghai October Invited lecturer Southeast University, Nanjing, China October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary GICEG 2010 6th International Congress on Environmental Geotech International Symposium on Methane Hydrate Resources — from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and rengineering, Malaysia December Invited speaker GAOF and MBE KTN workshop on remote sensing for transport in assets, London	July	Invited lecturer	<u> </u>
September		Invited lecturer	
September Keynote 1st International Conference on Information Technology in Geo-En (ICITG-Shanghai 2010), Shanghai October Invited lecturer GE / NCE Basements and Underground Structures conference, Lor October Keynote International Symposium on Geomechanics and Geotechnics: From (IS-Shanghai 2010), Shanghai October Invited lecturer Southeast University, Nanjing, China October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary 6ICEG 2010 6th International Congress on Environmental Geotech International Symposium on Methane Hydrate Resources – from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and engineering, Malaysia December Invited lecturer Universiti Teknologi Malaysia, Malaysia GAOF and MBE KTN workshop on remote sensing for transport in assets, London	•	Invited lecturer	· · · · · · · · · · · · · · · · · · ·
October Invited lecturer GE / NCE Basements and Underground Structures conference, Lor October Keynote International Symposium on Geomechanics and Geotechnics: From (IS-Shanghai 2010), Shanghai October Invited lecturer Southeast University, Nanjing, China October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary 6ICEG 2010 6th International Congress on Environmental Geotech Invited speaker International Symposium on Methane Hydrate Resources – from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and engineering, Malaysia December Invited speaker GAOF and MBE KTN workshop on remote sensing for transport in assets, London		Keynote	1st International Conference on Information Technology in Geo-Engineering
October Invited lecturer GE / NCE Basements and Underground Structures conference, Lor October Keynote International Symposium on Geomechanics and Geotechnics: From (IS-Shanghai 2010), Shanghai October Invited lecturer Southeast University, Nanjing, China October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary 6ICEG 2010 6th International Congress on Environmental Geotech Invited speaker International Symposium on Methane Hydrate Resources – from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and tengineering, Malaysia December Invited speaker GAOF and MBE KTN workshop on remote sensing for transport in assets, London	•	·	
October Keynote Invited lecturer Southeast University, Nanjing, China October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary 6ICEG 2010 6th International Congress on Environmental Geotech Invited speaker International Symposium on Methane Hydrate Resources – from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and engineering, Malaysia December Invited speaker GAOF and MBE KTN workshop on remote sensing for transport in assets, London	October	Invited lecturer	
October Invited lecturer October Keynote Plenary October Invited speaker Invited speaker December Invited speaker Invited speaker December Invited speaker Invited speaker Invited speaker GAOF and MBE KTN workshop on remote sensing for transport in assets, London (IS-Shanghai 2010), Shanghai (IS-Shanghai 2	October	Keynote	International Symposium on Geomechanics and Geotechnics: From Micro to Macro
October Invited lecturer Southeast University, Nanjing, China October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary 6ICEG 2010 6th International Congress on Environmental Geotech Invited speaker International Symposium on Methane Hydrate Resources – from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and engineering, Malaysia December Invited lecturer Universiti Teknologi Malaysia, Malaysia GAOF and MBE KTN workshop on remote sensing for transport in assets, London		•	
October Keynote Paymacotas Workshop on Tunnel Engineering-Instrumentation in Excavations, Barcelona November Plenary 6ICEG 2010 6th International Congress on Environmental Geotech Invited speaker International Symposium on Methane Hydrate Resources – from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and engineering, Malaysia December Invited lecturer Universiti Teknologi Malaysia, Malaysia GAOF and MBE KTN workshop on remote sensing for transport in assets, London	October	Invited lecturer	
November Plenary 6ICEG 2010 6th International Congress on Environmental Geotech November Invited speaker International Symposium on Methane Hydrate Resources – from M Nankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and engineering, Malaysia December Invited lecturer Universiti Teknologi Malaysia, Malaysia GAOF and MBE KTN workshop on remote sensing for transport in assets, London	October	Keynote	Paymacotas Workshop on Tunnel Engineering-Instrumentation in Tunnels and
November Invited speaker International Symposium on Methane Hydrate Resources – from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and engineering, Malaysia December Invited lecturer Universiti Teknologi Malaysia, Malaysia GAOF and MBE KTN workshop on remote sensing for transport in assets, London		·	•
November Invited speaker International Symposium on Methane Hydrate Resources – from Mankai Trough, Tokyo December Invited speaker Geotropika 2010: an international conference on geotechnical and engineering, Malaysia December Invited lecturer Universiti Teknologi Malaysia, Malaysia GAOF and MBE KTN workshop on remote sensing for transport in assets, London	November	Plenary	6ICEG 2010 6th International Congress on Environmental Geotechnics, India
December Invited speaker Geotropika 2010: an international conference on geotechnical and engineering, Malaysia December Invited lecturer Universiti Teknologi Malaysia, Malaysia December Invited speaker GAOF and MBE KTN workshop on remote sensing for transport in assets, London	November		International Symposium on Methane Hydrate Resources – from Mallik to the
December Invited speaker Geotropika 2010: an international conference on geotechnical and engineering, Malaysia December Invited lecturer Universiti Teknologi Malaysia, Malaysia GAOF and MBE KTN workshop on remote sensing for transport in assets, London		1	
December Invited lecturer December Invited speaker GAOF and MBE KTN workshop on remote sensing for transport in assets, London	December	Invited speaker	Geotropika 2010: an international conference on geotechnical and transportation
December Invited lecturer Universiti Teknologi Malaysia, Malaysia December Invited speaker GAOF and MBE KTN workshop on remote sensing for transport in assets, London		1	•
December Invited speaker GAOF and MBE KTN workshop on remote sensing for transport in assets, London	December	Invited lecturer	
assets, London			
		Promor	•
2 to the first of	December	Speaker	·
	Describer	op ourier	Onto Harving Workshop

Grants and Contracts

Funding Agencies

- [1] Engineering and Physical Sciences Research Council: PI "Funds to join EEFIT mission to South Hyogo (Kobe) earthquake of 1995," 1 March, 1995 30 June, 1995 (3 months), £1,000 (+£1,500 contribution from Industry)
- [2] **European Commission**: PI "Real-time modelling and compensation of soil movements on underground sites (COSMUS)," 1 December, 1996 31 May, 2000 (42 months), €332,000 (Co-I. Dr. M.D. Bolton)
- [3] Engineering and Physical Sciences Research Council: Co-I. "Investigation of ground loading applied to an old London Underground tunnel," 1 September, 1997 31 August, 1999 (24 months), £117,101 (+£65,000 contribution from Industry), (PI. Dr. M.D. Bolton, Co-I. Prof. R.J. Mair)
- [4] **European Commission**: PI. "Investigation of NAPL migration processes in the unsaturated zone (vadose zone)," Training and Mobility of Researchers (TMR) Programme, Marie Curie Research Training Grant for Mr. C. Kechavarzi, 1 January, 1998 31 December, 2000 (36 months), €80,000
- [5] **ESSO Teaching Grant**: PI. "Image analysis of contaminants migration in soils," September, 1998, £7,343
- [6] Engineering and Physical Sciences Research Council: PI. "Investigation of time effects on soil behaviour and their influence on construction activities" 1 October, 1998 30 September, 2001 (36 months), £155,933 (+£70,000 contribution from Industry), (Co-I. Dr. M.D. Bolton)
- [7] Engineering and Physical Sciences Research Council: Co-I. "The mechanisms of tunnelling-induced ground movements and their progressive effects on buildings," 30 March, 2000 29 March 2002 (36 months), £133,446 (+£225,000 contribution from Industry), (PI. Prof. R.J. Mair, Co-I. Dr. J. Standing)

- [8] **Joint Infrastructure Fund and Engineering and Physical Sciences Research Council**: Co-I. "Centre for geotechnical processes and construction modelling," 1 August 2000 31 July 2004 (48 months), £1,861,156, (PI. Prof. R.J. Mair, Co-I. Prof. A.C. Palmer, Dr. M.D. Bolton, Dr. S.P.G. Madabhushi, Dr. A. Al-Tabbaa and Dr. R.J. Lynch)
- [9] **Engineering and Physical Sciences Research Council**: PI "Travel grant to develop US collaboration on contaminant source remediation testing facility," 15 December 2000 to 14 October 2000 (10 months), £9,273
- [10] European Commission: PI "GEOTECHNET", 1 December 2001- 30 November, 2005 (48 months), €25,200
- [11] **European Commission**: Co-I "New methods of mitigation of seismic risk on existing foundations,", 1 May 2002 31 April 2005 (36 months), €572,900 (PI. S.P.G. Madabhushi, Co-I. Prof. M.D. Bolton)
- [12] Engineering and Physical Sciences Research Council: PI. "Insitu assessment of contaminant containment system" 1 October, 2002 30 September, 2005 (36 months), £203,765 (+£63,000 contribution from Industry), (Co-I. Prof. R.J. Mair)
- [13] Engineering and Physical Sciences Research Council: Co-I. "The effects of tunneling on piled foundations" 1 June, 2002 30 May, 2004 (24 months), £186,968 (+£543,000 contribution from Industry), (PI. Dr. J.S. Standing and Co-I. Prof. R.J. Mair)
- [14] **Cambridge-MIT Institute**: Co.-I "New technologies for condition assessment and monitoring of ageing infrastructure," 1 August, 2002 31 July, 2005 (36 months), £610.639 (PI. Prof. R.J. Mair)
- [15] **British Council-CRUI**: PI "Travel Grant: Trenchless technology for sustainable cities: reduction of jacking forces in clays," 1 January 2004 31 December 2004, £4,000, (PI- Dr M. Barla, Politecnico di Torino)
- [16] Engineering and Physical Sciences Research Council: PI. "RAIS; Insitu assessment of contaminant containment system" 1 April, 2004 31 March, 2005 (12 months), £32,739.00
- [17] Engineering and Physical Sciences Research Council: Co-PI "PLATFORM: New technology & new horizons in geotechnical research & development," 1 October, 2004 31 September, 2008 (48 months), £435,277 (PI Prof. M.D. Bolton, Co-PI. Dr S.P.G. Madabhushi, Prof. R.J. Mair, Dr. A. Al-Tabbaa, Dr. R.J. Lynch, Dr. D.J. White and Dr. E.T. Bowman).
- [18] **Biotechnology and Biological Sciences Research Council**: PI "Case Studentship", January 2005 to December 2008, £15,000.
- [19] **Isaac Newton Trust**: PI "Methane hydrates, matching fund" £19,500
- [20] Engineering and Physical Sciences Research Council: PI "Industrial CASE studentship", October 2005 September 2008, £59,464
- [21] New Energy and Industry Technology Development Organisation (NEDO), PI "International Familiarization of ISO Code for Geotechnical Earthquake Resistant Design", October 2005-September 2008, ¥3,500,000 (appx. £17,500)
- [22] **Highways Agency**, PI "Slope monitoring using fibre optic technology", October 2005 March 2007, £85,000 (Co-I: Prof. Mair)
- [23] Cambridge-MIT Institute: Co.-I "New technologies for condition assessment and monitoring of ageing infrastructure- Extension," 1 August, 2002 31 August 2006, £15,000 (PI. Prof. R.J. Mair)
- [24] Engineering and Physical Sciences Research Council: PI "Smart Foundations with Distributed Fibre Optics Technology," 1st April 2006 31st March 2009, £281,307 (+£59,000 contribution from Industry) (Co-I: Prof. Mair)
- [25] Engineering and Physical Sciences Research Council: PI "Smart Infrastructure: Wireless sensor network system for condition assessment and monitoring of infrastructure," 1st October 2006 30th September 2009, £777,034 (Co-I: Prof. Mair, Dr. Middleton, Dr Wassell, Dr Stajano)
- [26] **European Science Foundation**: PI "Micro-Measurement and Monitoring System for Ageing Underground Infrastructures (Underground M3)," 1st October 2006 30th September 2009, £441,832 (Co-I: Prof. Mair, Prof. Cipolla, Dr Seshia)
- [27] Engineering and Physical Sciences Research Council: Co-PI "Delivering sustainable water systems by optimising existing infrastructure via improved knowledge, understanding and technology project NEPTUNE", (Co-PI. Dr R. Fenner), £247,016
- [28] **European Science Foundation**: PI "Workshop on Sensor Networks for Civil Infrastructure Systems," April 2008, €26.800
- [29] **Engineering and Physical Sciences Research Council**: Co-PI "Bridging The Gaps: Cam-Bridge-Sens," 31 March 2008 30 March 2010, £250,000
- [30] Engineering and Physical Sciences Research Council: Co-I "UCL Cambridge Doctoral Training Centre in Photonic Systems Development"
- [31] Engineering and Physical Sciences Research Council: PI "Industrial CASE studentship with Arup", October 2008
 September 2011, £60,000
- [32] Engineering and Physical Sciences Research Council: PI "Commercialisation of Smart Foundation System" March 2010 February 2011, £88,498
- [33] Knowledge Transfer Partnership: Co-PI, Crossrail Ltd., April 2010 March 2013, £387,055 (PI. Mair)

- [34] Cambridgesens: Co-PI "Wireless sensor networks for volcano surveillance," May 2010-September 2010, £15,000
- [35] **Engineering and Physical Sciences Research Council:** PI "Knowledge transfer secondment; Intelligent Fibre Optics Monitoring of Infrastructure-Trend, Change and Abnormal Signal," 1st April 2010 to 31st March 2011, £94,329
- [36] **Low Carbon Energy University Alliance**: PI "Geo-Energy Systems Simulator: From Building scale to City scale," October 2010 September 2013, \$200,000
- [37] Engineering and Physical Sciences Research Council: Co-I "Innovation and Knowledge Centre for Smart Infrastructure and Construction", April 2011-March 2016, £9,956,319
- [38] Engineering and Physical Sciences Research Council: PI "ICASE-Arup, Deep Geomechanics", October 2012-March 2016, £60,000
- [39] Engineering and Physical Sciences Research Council: PI "ICASE-Halcrow, Assessment and retrofit of non-compliant sections of London Underground Tunnels", October 2012-March 2016, £60,000
- [40] **Engineering and Physical Sciences Research Council:** PI "ICASE-Arup, Improving the efficiency of interpreting monitoring data", October 2012-March 2016, £60,000
- [41] **European Commission:** PI "MPM-DREDGE— MPM modelling and simulation of soil-fluid interaction for dredging applications," March 2013-February 2016, €557,440.
- [42] Engineering and Physical Sciences Research Council: PI "ICASE-Arup, Life Cycle Analysis of Civil Infrastructure", October 2012-March 2016, £ 68,648
- [43] Engineering and Physical Sciences Research Council: Co-I, "CDT Cembridgesens", October 2014-September 2019, £4.068.526
- [44] CERN "PhD studentship", PI October 2014-September 2017, £150,000 (appx.)
- [45] Engineering and Physical Sciences Research Council: PI "Impact Acceleration Account Follow-On Fund, Developing the Second CSIC FOSA Prototype System (FOSA-PS2): to accelerate affordability and scale-up manufacturing capability for civil engineering industry," January 2015 September 2015, £59,916
- [46] CNPq Science without Borders (SwB)/BG Brazil fellowship programme: PI "International Human Resources Training in Petroleum Geomechanics," £1,876,312, October 2015 September 2021
- [47] Engineering and Physical Sciences Research Council: Co-I "ICASE-Arup, Modelling concreting of piling and diaphragm walls", October 2016-March 2020, £68,648
- [48] Engineering and Physical Sciences Research Council: Co-I "Innovation and Knowledge Centre for Smart Infrastructure and Construction Phase 2," April 2016-March 2021, £5,000,000
- [49] **Caltrans**: PI "Deployment of Post Grouting Technique to improve Drilled Shaft End-Bearing Resistance", May 2017-April 2019, \$250,000
- [50] **National Science Foundation:** PI "Deformation induced soil fracturing multi-scale multi-physics mechanism and early detection," September 2017-August 2019, \$299,975

Industry (inc. research-based consultancy through Cambridge University Consultancy Services CUTS)

- [1] **Geo-Research Institute, Japan**: PI "The properties of London clay and the Woolwich & Reading Bed in London," 1 October, 1995 31 March, 1996 (6 months)
- [2] **Shimizu Corporation, Japan**: PI "Seismic performance of rockfill dams," 1 November, 1995 31 March, 1996 (5 months)
- [3] **Nishimatsu Construction, Japan**: PI "Evaluation of contaminated soils using electrical properties measurement," 1 April, 1996 31 March, 1998 (24 months)
- [4] **Tokyo Gas, Japan**: PI "Incorporation of soil models into ABAQUS," 1 October, 1996 31 September, 1998 (24 months)
- [5] Sunkyong Engineering & Construction Ltd., Korea: PI "Finite element modelling of electro-osmosis consolidation," 1 December, 1996 31 May 1997 (6 months)
- [6] **Kajima Construction, Japan**: PI "Monitoring of contaminant migration in soils" 1 February, 1997- 31 January 1999 (24 months)
- [7] **Shimizu Corporation, Japan**: PI "The study of seismic liquefaction damages to pile foundation and neighboring quaywalls", 20 January 1997 to 31 March 1997 (1.5 months)
- [8] **Nishimatsu Construction, Japan**: Co-I. "Investigation of grouting on tunnel lining," 1 May 1997- 31 April 1999 (24 months)
- [9] **Nishimatsu Construction, Japan**: PI "Extension: Evaluation of contaminated soils using electrical properties measurement," 1 June, 1998 31 May, 2000 (24 months)
- [10] **Shimizu Corporation, Japan**: PI "The Stability of Sands Slopes during Earthquake", 1 November 1998 to 31 March 1999 (5 months)
- [11] Schlumberger Cambridge Research Limited, December, 1998

- Tokyo Gas, Japan: PI "Extension: Incorporation of soil models into ABAQUS," 1 October, 1998 31 September, 1999 (12 months)
- [13] **Kajima Construction, Japan**: PI "Extension: Monitoring of contaminant migration in soils" 1 February, 1999-31 January 2001 (24 months)
- [14] **Nishimatsu Construction, Japan**: Co-I. "Effects of tunnelling and deep excavations on piled foundation," 1 October 1999- 30 September 2001 (24 months)
- [15] Schlumberger Cambridge Research Limited, December, 1999
- [16] **Shimizu Corporation, Japan**: PI "The Stability of Sands Slopes during Earthquake", 1 October 1999 to 31 March 2000 (6 months)
- [17] Tokyo Gas, Japan: PI "Soil-pipeline analysis," 1 April, 2000 31 March, 2001 (12 months)
- [18] Tokyo Gas, Japan: PI "Soil-pipeline analysis," 1 April, 2001 31 March, 2002 (12 months)
- [19] **Teikoku, Japan**: PI "Design of pipeline for agricultural use," 1 July, 2001 30 June, 2002 (12 months)
- [20] **Nishimatsu Construction, Japan**: Co-I. "Extension: Effects of tunnelling and deep excavations on piled foundation," 1 October 2001- 30 September 2003 (24 months)
- [21] **Teikoku, Japan**: PI "Investigation of rainfall induced embankment failure," 1 March, 2002 30 September, 2002 (6 months)
- [22] **Nishimatsu Construction**: Co-I. "Soil conditioning, field monitoring and data interpretation of CTRL 220," 1 April 2001- 30 September 2003 (24 months)
- [23] **Kajima Construction, Japan**: PI "Numerical simulation of airsparging field study" 1 October, 2002- 31 March 2003 (6 months)
- [24] **Kajima Construction, Japan**: PI "Insitu assessment of contaminated land" 1 November, 2002- 31 October 2004 (23 months)
- [25] Tokyo Gas, Japan: PI "Soil-pipeline analysis," 1 October, 2002 31 March, 2003 (6 months)
- [26] Tokyo Gas, Japan: PI "Soil-pipeline analysis," 1 April, 2004 31 December, 2004 (12 months)
- [27] KFC, Japan: PI "Research donation", 1 April 2004
- [28] National Institute of Advanced Industrial Science and Technology, Japan : PI "Gashydrate production," 1 April 2004 31 March 2005 (12 months)
- [29] Skanska Cementation: PI "Fibre optic strain measurements", 1 April 2004
- [30] Skanska Cementation: PI "Paddington monitoring", 1 April 2004
- [31] Japan Anchor Society: PI "Soil-grout-anchor interaction", September 2004 August 2005
- [32] Thames Water: PI "Chingford monitoring and assessment," November 2004
- [33] Cross London Rail Links: PI "Farringdon monitoring" March 2005
- [34] **KFC, Japan**: PI "Research donation", August 2005
- [35] Tokyo Gas, Japan: PI "Soil-pipeline analysis," 1 October 2005 15 February, 2006 (12 months)
- [36] **Arup Geotechnics**, PI "Embodied energy and whole life cycle analysis of civil engineering infrastructures matching fund with EPSRC Case studentship," October 2005 August 2008
- [37] **Cambridge Insitu**, PI "PhD studentship", October 2005 August 2008
- [38] Japan Anchor Society: PI "Soil-grout-anchor interaction Extension", September 2005 August 2006
- [39] **Japan Oil, Gas And Metals National Corporation**: PI "Methane hydrate extraction modelling," February 2006 March 2007
- [40] National Institute of Advanced Industrial Science and Technology, Japan: PI "Gashydrate production," 1 September 2005 31 August 2006 (12 months)
- [41] National Institute of Advanced Industrial Science and Technology, Japan: PI "Gashydrate production," 1 September 2006 31 August 2007 (12 months)
- [42] Schlumberger: PI "Soil fractures in wellbores", 1st October 2006 31st September 2007
- [43] **Tokyo Gas**: PI "Soil-pipeline interaction", 1st October 2006 March 2007
- [44] **Japan Anchor Society**: PI "Soil-grout-anchor interaction Extension", September 2006 August 2007
- [45] **Singapore Land Transport Authority**: PI "Fibre optics monitoring for Singapore Metro construction,", 1 December 2006
- [46] Skanska Cementation: PI "Beckton Fibre optics monitoring", 1 April 2007
- [47] Skanska Cementation: PI "Lambeth college thermal pile tests," 1 October 2007
- [48] **Japan Oil, Gas And Metals National Corporation**: PI "Methane hydrate extraction modelling," December 2007 March 2008
- [49] **Tokyo Gas:** PI "Soil-pipeline interaction", 1st October 2007 March 2008
- [50] **Arup,** PI "NHBC Foundation Project" 1st December 2007
- [51] **Arup,** PI "Development of a tool for assessing Embodied Energy and Carbon Emissions for HA construction projects" 1st December 2007

- [52] National Institute of Advanced Industrial Science and Technology, Japan: PI "Gashydrate production," 1 September 2007 31 August 2008 (12 months)
- [53] **Soldata**: PI "Fibre optics monitoring on London Underground Tunnel" May 2008
- [54] **Tokyo Gas:** PI "Soil-pipeline interaction", 1st October 2008 March 2009
- [55] **Tokyo Gas:** PI "Gas migration modeling in soils", 1st October 2008 March 2009
- [56] National Institute of Advanced Industrial Science and Technology, Japan: PI "Gashydrate production," 1 September 2008 28 February 2009 (5 months)
- [57] Japan Oil, Gas And Metals National Corporation: PI "Methane hydrate extraction modelling," October 2008 March 2009
- [58] Arup, PI "PhD studentship for Kirk Ellison" 1 October 2008 31 September 2011
- [59] **Arup**, PI "Life Cycle Analysis of Civil Infrastructure ICASE studentship supplement" 1 October 2008 31 September 2011
- [60] Japan Oil, Gas And Metals National Corporation: PI "Methane hydrate extraction modelling," October 2009 September 2010
- [61] Southend on Sea Borough Council: "Slope monitoring using Fibre optics", 1 September 2009 September 2010
- [62] **Tokyo Gas:** PI "Soil pipeline interaction in unsaturated soils", 1st October 2009 February 2010 (through CUTS)
- [63] **BP**: PI "Run-off modeling" 1st October 2009 September 2012
- [64] Southend on Sea Borough Council: "Slope monitoring using Fibre optics-Phase 2"
- [65] **Tokyo Gas**: PI "Soil pipeline interaction in unsaturated soils", 1st October 2010 February 2011
- [66] **Japan Oil, Gas And Metals National Corporation:** "Geomechancial Modelling and Simulations of Wellbore Deformation and Stability during the Nankai Trough Methane Gas Production Trial," 1st November 2010 31st March 2011
- [67] Tokyo Gas: PI "Soil pipeline interaction in paved ground", 1st October 2011 February 2012
- [68] **Japan Oil, Gas And Metals National Corporation:** "Geomechancial Modelling and Simulations of Wellbore Deformation and Stability during the Nankai Trough Methane Gas Production Trial," 1st July 2011 31st March 2012
- [69] **BP**: PI "City scale modelling of geothermal energy," 1st October 2012-31st September 2015
- [70] Thames Water: Co-I "Thames Water Lee Tunnel Project- Abbey Mills shaft," October 2011
- [71] Crossrail: Co-I "Stepney Green shaft monitoring", 2011
- [72] Crossrail: Co-I "Liverpool street sprayed concrete junction", 2011
- [73] Cementation Skanska: PI "Bevis Marks pile reuse monitoring," 2012
- [74] Southend on Sea Borough Council: "Slope monitoring using Fibre optics-Phase 2", 2012
- [75] Magpie Environmental Drilling Services-Arup "Shell Centre Thermal pile response test," 2012
- [76] Cementation Skanska: PI "Broadgate Minipile monitoring project," 2012
- [77] Vlaamse overhead: PI "Fibre optics monitoring of railway retaining wall," 2012
- [78] Arup, PI "Deep Geomechanics matching fund with EPSRC Case studentship," October 2012 August 2015
- [79] **Halcrow**, PI "Assessment and retrofit of non-compliant sections of London Underground Tunnels matching fund with EPSRC Case studentship," October 2012 August 2015
- [80] **Arup**, PI "Improving the efficiency of interpreting monitoring data matching fund with EPSRC Case studentship," October 2012 August 2015
- [81] ITM-Soil "PIV software development," 2012
- [82] Crossrail "Liverpool street station monitoring", 2013
- [83] Crossrail "Paddington Station monitoring", 2012
- [84] Wentworth House Partnership "City Road Pile testing monitoring," 2012
- [85] Crossrail "Postoffice tunnel monitoring," 2012
- [86] **National Grid** "Tunnel lining monitoring," 2013
- [87] National Grid "Computer vision tunnel inspection system development," 2013
- [88] London Underground "Smart Plank WSN project," 2013
- [89] Virgina Tech "Thermal pile testing," 2013
- [90] **Japan Oil, Gas And Metals National Corporation:** "Geomechancial Modelling and Simulations of Wellbore Deformation and Stability during the Nankai Trough Methane Gas Production Trial," December 2012 June 2013
- [91] Tokyo Gas: PI "Soil pipeline interaction constitutive modelling", 1st October 2012 February 2013
- [92] **Japan Oil, Gas And Metals National Corporation:** "Geomechancial Modelling and Simulations of Wellbore Deformation and Stability during the Nankai Trough Methane Gas Production Trial," March 2014 June 2014
- [93] **Tokyo Gas**: PI "Soil pipeline", 1st October 2013 February 2014
- [94] Canary Wharf Ltd. "Newfoundland FO monitoring project
- [95] **Arup** "Shell Centre FO monitoring project"
- [96] Cementation Skanska "Farringdon FO monitoring project

- [97] **Arup** "London Embassy FO monitoring project"
- [98] Arup, PI "Life Cycle Analysis of Civil Infrastructure," October 2013 September 2016
- [99] Samsung, "Intelligent monitoring and safety management system for Li-ion Batteries,
- [100] **Tokyo Gas**: PI "Soil pipeline", 1st October 2014 February 2015
- [101] Arup "Newfoundland FO monitoring project", February 2014 May 2014
- [102] Yunnan Fusheng Zn & Au Co Ltd "WSN for gas sensing" March 2014-February 2015
- [103] **CERN** "Fibre optics monitoring of CERN tunnels," March 2014-December 2014
- [104] Integrity Insitu "Pressuremeter test code development" November 2014-March 2015
- [105] Integrity Insitu "PhD studentship" January 2015-December 2017
- [106] **Japan Oil, Gas And Metals National Corporation:** "Study on wellbore stability and reinforcement of unconsolidated formation," January 2015 September 2015
- [107] **BG Group** "Petroleum Geomechanics", October 2015 September 2021
- [108] **BP** "Water injection in soft sands," January 2016-December 2021
- [109] BP "Filter cake," Co-I, January 2016-December 2021
- [110] **Japan Oil, Gas And Metals National Corporation:** "Study on wellbore stability and reinforcement of unconsolidated formation," January 2016 September 2016
- [111] **Tokyo Gas**: PI "Soil pipeline", 1st October 2015 February 2016
- [112] Arup, Co-I "Modelling concreting of piling and diaphragm walls" October 2016 March 2020
- [113] Aecom, PI "Singapore DTSS Phase 2", June 2015
- [114] Attorney General of Washington "Runout simulations of the SR-530 landslide case," April-September 2016
- [115] Kleinfelder "USACE W91238-16-D-0019 Dam & Levee Safety Programs" November 2016 present

Publications

Books

- [B1] Mitchell, J.K. and Soga, K. (2005) Fundamentals of Soil Behavior, 3rd Edition, John Wiley and Sons, May 2005, 592pp.
- [B2] Soga, K., Kumar, K., Biscontin, G. and Kuo, M. (editors) (2014) Geomechanics from Micro to Macro Proceedings of the TC105 ISSMGE International Symposium on Geomechanics from Micro to Macro, IS-Cambridge 2014, CRC Press, 1700pp.
- [B3] Mair, R.J., Soga, K., Jin, Y., Parlikad A.K. and Schooling, J.M. (editors) (2016) *Transforming the Future of Infrastructure through Smarter Information: Proceedings of the International Conference on Smart Infrastructure and Construction*, ICE Publishing, 800pp.
- [B4] Rodenas-Herráiz, D., Soga, K., Fidler, P. and de Battista, N. (2016) Wireless Sensor Networks for Civil Infrastructure Monitoring A Best Practice Guide, ICE Publishing, 208pp.
- [B5] Kechavarzi, C., Soga, K., de Battista, N, Pelecanos, L., Elshafie, M. and Mair, R.J. (2016) Distributed Optical Fibre Sensing for Monitoring Geotechnical Infrastructure A Practical Guide, ICE Publishing, 192pp.

Journal Papers, Technical Notes and Special Publication Papers

- [J1] Kamon, M., Soga, K., Kiyama, M. and Inoue, K. (1989): "The Appearance characteristics of fecal pellets in marine clay layers in Osaka Bay and the relationship to geotechnical properties," *Soils and Foundations (Japanese version)*, Vol. 29, No. 2, pp. 181-189
- [J2] Akai, K., Kamon, M., Sano, I. and Soga, K. (1991): "Long-term consolidation characteristic of diluvial clay in Osaka Bay," *Soils and Foundations*, Vol. 31, No.4, pp. 61-74
- [J3] Nakagawa, K., Soga, K. and Mitchell, J.K. (1996): "Pulse transmission system for measuring wave propagation in soils," Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers, Vol. 122, No. 4, pp. 302-308
- [J4] Soga, K. and Mitchell, J.K. (1996): "Rate-dependent deformation of structured natural clays," *Geotechnical Special Publication No. 61*, American Society of Civil Engineers, pp. 243-257
- [J5] Nakagawa, K., Soga, K. and Mitchell, J.K. (1997): "Observation of the Biot compression wave of the second kind in granular soils," *Géotechnique*, Vol. 47, No. 1, pp. 133-147.
- [J6] Nakagawa, K., Soga, K. and Mitchell, J.K. (1997): "Closure: Pulse transmission system for measuring wave propagation in soils," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 123, No. 9, pp.884
- [J7] Soga, K. (1998): "Soil Liquefaction effects observed in the Kobe Earthquake of 1995," *Proceedings of ICE- Geotechnical Engineering*, January, pp. 34 51
- [J8] Komiya, K., Soga, K., Akagi, H. Hagiwara, T. and Bolton, M.D. (1999): "Finite element modelling of excavation and advancement processes of a shield tunnelling machine", *Soils and Foundations*, Vol. 39, No.3, pp. 37-52.
- [J9] Sugiyama, T., Hagiwara, T., Nomoto, T., Nomoto, M., Ano, Y., Mair, R.J., Bolton, M.D. and Soga, K. (1999): "Observations of ground movements during tunnel construction by slurry shield method at the Docklands light railway Lewishman extension East London," *Soils and Foundations*, Vol. 39, No.3, pp. 99-112.
- [J10] Carrier, M.B. and Soga, K. (1999): "A four terminal measurement system for measuring the dielectric properties of clay at low frequencies", *Engineering Geology*, Vol.53, No.2, pp.115-123
- [J11] Ellis, E.A., Soga, K., Bransby, M.F. and Sato, M. (2000): "Resonant column testing of sands with different viscosity pore fluids", *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 126, No. 1, pp. 10-17
- [J12] Yimsiri, S. and Soga, K. (2000) "Micromechanics-based stress-strain behaviour of soils at small strains", *Géotechnique*, Vol. 50, No.5, pp. 559-571
- [J13] Kechavarzi, C., Soga, K. and Wiart, P. (2000): "Multispectral image analysis method to determine dynamic fluid saturation distribution in two-dimensional three-phase flow laboratory experiments," *Journal of Contaminant Hydrology*, Vol. 46, No.3-4, pp. 265-293
- [J14] Nakagawa, K., Soga, K. and Mitchell, J.K. (2001): "Authors' reply; Observation of Biot compressional wave of the second kind in granular soils," *Géotechnique*, Vol. 51, No. 1
- [J15] Jafari, M.R., Au, S.K.A., Soga, K., Bolton, M.D. and Komiya, K. (2001): "Fundamental laboratory investigation of compensation grouting in clays," *Geotechnical Special Publications No. 113*, American Society of Civil Engineers, pp. 445-459
- [J16] Kobayashi, I., Soga, K., Iizuka, A., Ohta, H. and Dalton, C. (2001): "Effect of pore water migration on self-boring pressuremeter strength," *Journal of Applied Mechanics*, Japan Society of Civil Engineers, Vol. 4, pp. 285-294
- [J17] Ratnam, S., Soga, K. and Whittle, R. (2001): "Revisiting Hvorslev's intake factors using the finite element method," *Géotechnique*, Vol. 51, No. 7, pp.641-645

- [J18] Bowman, E.T., Soga, K. and Drummond, T. (2001): "Particle shape characterization using fourier analysis," *Géotechnique*, Vol. 51, No. 6, pp. 545-554
- [J19] Lee, S.W., Bolton, M.D., Mair, R.J., Hagiwara, T., Soga, K. and Dasari, G. (2001): "Centrifuge modelling of injection near tunnel lining," *The International Journal of Physical Modelling in Geotechnics*, Vol. 1, No. 1, pp. 9-24
- [J20] Cerasi, P. and Soga, K. (2001): "Failure modes of drilling fluid filter cake," Géotechnique, Vol. 51, No. 9, pp. 777-786
- [J21] Komiya, K., Soga, K., Akagi, H., Jafari, M.R. and Bolton, M.D. (2001): "Soil consolidation associated with grouting during shield tunnelling in soft clayey ground," *Géotechnique*, Vol. 51, No. 10, pp. 835-847
- [J22] Lynch, R.J., Allersma, H., Bezuijen, A., Bolton, M.D., Cartwright, M., Davies, M.C.R., Depountis, N., Garnier, J., de Almeida Garrett, J.L.L., Kechavarzi, C., Oung, O., da Silva, M.G., Santos, C., Sentenac, P., Soga, K., Spiessl, S., Taylor, R.N., Treadaway A.C.J., and Weststrate F. (2001): "Development of sensors, probes and imaging techniques for pollutant monitoring in geo-environmental model tests," *The International Journal of Physical Modelling in Geotechnics*, Vol. 1, No. 4, pp. 17-28
- [J23] Ratnam, S., Soga, K., Mair, R.J. and Whittle, R.W. (2002): "Self-boring pressuremeter permeameter measurements in Bothkennar clay," *Géotechnique*, Vol. 52, No. 1, pp. 55-60
- [J24] Kechavarzi, C. and Soga, K. (2002): "Determination of water saturation using miniature resistivity probes during intermediate scale and centrifuge multiphase flow laboratory experiments," *ASTM Geotechnical Testing Journal*, Vol. 25, No. 1, pp. 95-103
- [J25] Gui, M.W., Soga, K., Bolton, M.D. and Hamelin, J.P. (2002): "Instrumented borehole drilling for subsurface investigation," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 128, No. 4, pp. 283-291
- [J26] Yimsiri, S. and Soga, K. (2002): "A review of local strain measurement systems for triaxial apparatus," *Geotechnical Engineering*, April, pp.41-52
- [J27] Saenton, S., Illangasekare, T.H., Soga, K. and Saba, T. (2002): "Effects of source zone heterogeneity on surfactant enhanced NAPL dissolution and resulting remediation end-points," *Journal of Contaminant Hydrology*, Vol. 59, pp. 27-44
- [J28] Yimsiri, S. and Soga, K. (2002): "Application of micromechanics model to study anisotropy of soils at small strains," *Soils and Foundations*, Vol. 42, No.5, pp.15-26
- [J29] Lee, S.W., Bolton, M.D., Mair, R.J., Soga, K. and Hagiwara, T. (2002): "Modelling of sequential injections near tunnel lining," *Soils and Foundations*, Vol. 42, No. 6, pp. 9-22
- [J30] S.W. Lee, M.D. Bolton, R.J. Mair, K. Soga, T. Hagiwara & G.R. Dasari (2002): "Asymmetrical injections near tunnel linings," *International Journal of Physical Modelling in Geotechnics*, Vol. 2, No. 4, pp. 27-38
- [J31] Soga, K., Kawabata, J., Kechavarzi, C., Coumoulos, H. and Waduge, W.A.P. (2003): "Centrifuge modelling of nonaqueous phase liquid movement and entrapment in unsaturated layered soils," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 129, No. 2, pp. 173-182
- [J32] Au, S.K.A., Soga, K., Jafari, M.R., Bolton, M.D. and Komiya, K. (2003): "Factors affecting long-term efficiency of compensation grouting in clays," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 129, No. 3, pp. 254-262
- [J33] Ratnam, S., and Soga, K. (2003): "An evaluation of geometric factors used in the two stage borehole test (ASTM D6391-99) using the finite element method," *ASTM Geotechnical Testing Journal*, American Society of Testing Method, Vol. 26, No. 2, pp. 228-234
- [J34] Soga, K., Au, S.K.A. and Bolton, M.D. (2003): "Effect of injection rate on soil-grout behavior for compensation grouting," *ASCE Geotechnical Special Publication No. 120*, Vol. 1, pp. 845-856
- [J35] Gunzel, F.K., Craig, W.H., Cranon, P., Cottineau, L-M., Kechavarzi, C., Lynch, R.J., Merrifield, C.M., Oung, O., Schenkeveld, F.M., Soga, K., Thorel, L. and Westrate, F.A. (2003): "Evaluation of probes and techniques for water content monitoring in geotechnical centrifuge models" *International Journal of Physical Modelling in Geotechnics*, Vol. 3, No. 1, pp. 31-44
- [J36] Kobayashi, I., Soga, K., Iizuka, A. and Ohta, H. (2003): "Numerical interpretation of a shape of yield surface obtained from stress probe tests," *Soils and Foundations*, Vol.43, No. 3, pp. 95-104
- [J37] Bowman, E.T. and Soga, K. (2003): "Creep, ageing and microstructural change in dense granular materials," *Soils and Foundations*, Vol. 43, No. 4, pp. 107-118
- [J38] Soga, K., Page, J.W.E and Illangasekare, T.H. (2004): "A review of source zone remediation efficiency and the mass flux approach," *Journal of Hazardous Materials*, Vol. 110 No.1-3, pp. 3-27
- [J39] Waduge, W.A.P., Soga, K. and Kawabata, J. (2004): "Effect of LNAPL entrapment on air sparging efficiency," *Journal of Hazardous Materials*, Vol. 110 No.1-3, pp.173-183
- [J40] Teetes, G.R., Soga, K. and Mrugala, M.J. (2004): "Field instrumentation and back analysis of an elliptical shaft construction for the Texas Superconducting Super Collider Project," *Soils and Foundations*, Vol.44, No. 1, pp.99-111

- [J41] Soga, K., Au, S.K.A., Jafari, M.R. and Bolton, M.D. (2004): "Laboratory investigation of multiple injection into clay," *Géotechnique*, Vol. 54, No. 2, pp.81-90
- [J42] Yimsiri, S., Soga, K., Yoshizaki, K., Dasari, G.R. and O'Rourke, T.D. (2004): "Lateral and upward soil-pipeline interactions in sands for deep embedment conditions," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 130, No. 8, pp. 830-842
- [J43] Au, S.K.A., Soga, K., Jafari, M.R., Bolton, M.D. and Komiya, K. (2004): "Closure, Factors affecting long-term efficiency of compensation grouting in clays," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 130, No. 8, pp. 885-886
- [J44] Gourvenec, S., Mair, R.J., Bolton, M.D. and Soga, K. (2005): "Ground conditions around an old tunnel in London clay," *Proceedings of ICE- Geotechnical Engineering*, Vol. 1, pp. 25-33
- [J45] Kechavarzi, C., Soga, K., and Illangasekare, T.H. (2005) "Two dimensional laboratory simulations of LNAPL infiltration and redistribution in the vadose zone", *Journal of Contaminant Hydrology*, Vol. 76, pp. 211-233
- [J46] Soga, K., Au, S.K.A., Jafari, M.R. and Bolton, M.D. (2005): "Closure; Laboratory investigation of multiple injection into clay," *Géotechnique*, Vol. 55, No. 3, pp. 257-258
- [J47] Klar, A., Vorster, T.E.B., Soga, K. and Mair, R.J. (2005): "Soil-pipe-tunnel interaction: Comparison between Winkler and elastic continuum solutions," *Géotechnique*, Vol. 55, No. 6, pp. 461-466
- [J48] Ratnam, S., Soga, K. and Whittle, R.W. (2005): "A field permeability measurement technique using a conventional self-boring pressuremeter," *Géotechnique*, Vol. 55, No. 7, pp. 527-538
- [J49] Vorster, T.E.B., Klar, A., Soga, K. and Mair, R.J. (2005): "Estimating the effects of tunneling on existing pipelines," Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers, Vol. 131, No. 11, pp. 1399-1410
- [J50] Yimsiri, S., Soga, K. and Chandler, S.G. (2005): "Cantilever-type local deformation transducer for local axial strain measurement in triaxial test," *ASTM Geotechnical Testing Journal*, Vol. 28, No. 5, pp. 445-451
- [J51] Bowman, E.T. and Soga, K. (2005): "Mechanisms of set up of displacement piles in sand: Laboratory creep tests," *Canadian Geotechnical Journal*, Vol. 42, No. 5, pp. 1391-1407
- [J52] Au, S.K.A., Soga, K., and Yeung, A.T. (2006). "A new laboratory apparatus for grout injection studies." *Geotechnical Testing Journal*, ASTM, Vol. 29, No.2, pp.95-101.
- [J53] Au, S.K.A., Yeung, A.T. and Soga, K. (2006): "Pressure-controlled cavity expansion in clay," *Canadian Geotechnical Journal*, Vol. 43, No.7, pp. 714-725
- [J54] Klar, A., Bennett, P.J., Soga, K., Mair, R.J., Tester, P., Fernie, R., St John, H. and Torp-Peterson, G. (2006): "The importance of distributed strain measurement for pile foundations," *Proceedings of ICE- Geotechnical Engineering*, Vol. 159, No. GE3, pp.135-144
- [J55] Yimsiri, S. and Soga, K. (2006): "DEM analysis of soil-pipeline interaction in sand under lateral and upward movements at deep embedment," *Geotechnical Engineering*, Vol. 37, No. 2, pp. 83-94
- [J56] Wongsoraj, J., Soga, K., and Mair, R.J. (2007): "Modelling of long-term ground response to tunnelling under St. James's Park, London," *Géotechnique*, Vol. 57, No. 1, pp.75-90
- [J57] Waduge, W.A.P., Soga, K. and Kawabata, J. (2007): "Physical Modelling of LNAPL Source Zone Remediation by Air Sparging", *Vodose Zone Journal*, Vol. 6, No. 2, pp. 413-422
- [J58] Page, J.W.E., Soga, K. and Illangasekare, T.H. (2007): "The significance of heterogeneity on mass flux from DNAPL source zones: an experimental investigation," *Journal of Contaminant Hydrology*, Vol. 94, No. 3-4, pp. 215-234
- [J59] Au, S.K.A., Yeung, A.T., Soga, K., and Cheng, Y.M. (2007). "Effects of subsurface cavity expansion in clays." *Géotechnique*, Vol. 57, No.10, 821-830.
- [J60] Klar, A., Vorster, T.E.B., Soga, K., and Mair, R.J. (2007): "Elastoplastic solution for soil-pipe-tunnel interaction," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol.133, No.7, pp.782-792
- [J61] Klar, A., Marshall, A.M., Soga, K. and Mair, R.J. (2008): "Tunneling effects on jointed pipelines," *Canadian Geotechnical Journal*, Vol. 45, No. 1, pp. 131-139
- [J62] Kechavarzi, C., Soga, K., Illangasekare, T. and Nikolopoulos, P. (2008): "Laboratory Study of Immiscible Contaminant Flow in Unsaturated Layered Sands," *Vadose Zone Journal*, Vol. 7, pp. 1-9
- [J63] Soga, K. and Jefferis, S.A. (2008): "Soil science (mineralogy, pollution and environment): Interdisciplinary aspects of geotechnical engineering," *Géotechnique*, Vol. 58, pp. 441-448
- [J64] Bourne-Webb, P.J., Amatya, B., Soga, K., Amis, T, Davidson, C. and Payne, P. (2009) "Energy pile test at Lambeth College, London: geotechnical and thermodynamic aspects of pile response to heat cycles," *Géotechnique*, Vol. 59, No. 3, pp. 237–248
- [J65] Norouz Oliaei, M., Soga, K. and Pak A. (2009) "Some numerical issues using element-free Galerkin mesh-less method for coupled hydro-mechanical problems," *International Journal for Numerical and Analytical Methods in Geomechanics*, Vol. 33, No. 7, pp.915-938.

- [J66] Hoult, N.A., Bennnet, P.J., Stoianov, I., Maksimović, C., Middleton, C.R., Graham, N.J.G. and Soga, K. (2009): "Wireless Sensor Networks: creating 'Smart Infrastructure'," *Proceedings of ICE, Civil Engineering*, Vol. 162, August 2009, pp. 136–143
- [J67] Waite, W. F., Santamarina, C., Cortes, D.D., Dugan, B., Espinoza, D.N., Germaine, J., Jang, J., Jung, J.W., Kneafsey, T.J., Shin, H., Soga, K., Winters, W.J., Yun, T.S. (2009): "Physical properties of hydrate-bearing sediments", *Review of Geophysics*, Vol. 47, RG4003, 38 p.
- [J68] Ferri, M., Mancarella, F., Seshia, A., Ransley, J., Soga, K., Zalesky, J. and Roncaglia A., (2010): "Development of MEMS strain sensors for crack monitoring in ageing civil infrastructures", *Smart Structures and Systems*, Vol. 6, No. 3, pp. 225-238
- [J69] Leung, Y.F., Klar, A., Soga, K. (2010) "A Theoretical Study on Pile Length Optimization of Pile Groups and Piled Rafts," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 136, No. 2, pp. 319-330
- [J70] Klar, A., Soga, K. and Ng, M.Y.A. (2010): "Coupled Deformation-Flow Analysis for Methane Hydrate Extraction," *Géotechnique*, Vol. 60, No. 10, pp. 765 –776
- [J71] Yimsiri, S. and Soga, K. (2010): "DEM analysis of soil fabric effects on behaviour of sand," *Géotechnique*, Vol. 60, No. 6, pp. 483–495
- [J72] Cheung, L.L.K., Soga, K., Bennett, P.J., Kobayashi, Y., Amatya, B. and Wright, P. (2010): "Optical fibre strain measurement for tunnel lining monitoring" *Proceedings of ICE, Geotechnical Engineering*, Vol. 163, No. GE3, pp. 119–130
- [J73] Stajano, F., Hoult, N., Wassell, I., Bennett, P., Middleton, C., and Soga, K. (2010) "Smart Bridges, Smart Tunnels: Transforming Wireless Sensor Networks from Research Prototypes into Robust Engineering Infrastructure," Ad Hoc Networks, Vol. 8, pp. 872-888
- [J74] Bennett, P.J., Kobayashi, Y., Soga, K. and Wright, P. (2010): "Wireless Sensor Network for Monitoring of Underground Tunnel," *Proceedings of ICE, Geotechnical Engineering*, Vol. 163, No. GE3, pp. 147–156
- [J75] Whelan, M.J, Gangone, M.V., Janoyan, K.D, Hoult, N.A., Middleton, C.R. and Soga, K. (2010) "Wireless Operational Modal Analysis of a Multi-Span Prestressed Concrete Bridge for Structural Identification", *Smart Structures and Systems*, Vol. 6, No. 5-6, pp. 579-594
- [J76] Bennett, P.J., Soga, K., Wassell, I.J., Fidler, P., Abe, K., Kobayashi, Y. and Vanicek, M. (2010): "Wireless Sensor Networks for Underground Railway Applications: Case studies in Prague and London," *Smart Structures and Systems*, Vol. 6, No. 5-6, pp. 619-639
- [J77] Soga, K. and Shoureshi R. (2010) "Special Issue on Innovative Monitoring Technologies for Civil Infrastructure Systems Preface", *Smart Structures and Systems*, Vol. 6, No. 3, pp. I-I.
- [J78] Joshi, K., Kechavarzi, C. Sutherland, K., Ng, M.Y.A., Soga, K. and Tedd, P. (2010) "Laboratory and In situ Tests for Long-term Hydraulic Conductivity of Cement-Bentonite Cut-Off Wall," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 136, No. 4, pp. 562-572
- [J79] Brugada, J., Cheng, Y. P., Soga, K. and Santamarina, J. C. (2010): "Discrete element modelling of geomechanical behaviour of methane hydrate soils with pore-filling hydrate distribution," *Granular Matter*, Vol.12, No. 5, pp. 517-525
- [J80] Leung, Y.F, Soga, K. Lehane, B.M. and Klar, A. (2010) "Role of linear-elasticity in pile group analysis and load test interpretation", *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 136, No. 12, pp.1686-1694
- [J81] Mohamad, H., Bennett, P.J., Soga, K. Mair, R.J. and Bowers, K. (2010) "Behaviour of an Old Masonry Tunnel Due to Tunnelling Induced Ground Settlement," *Géotechnique*, Vol. 60, No. 12, pp. 927 –938
- [J82] Soga, K. and O'Sullivan, C. (2010) "Modeling of geomaterials behavior," *Soils and Foundations*, Vol. 50, No. 6, pp. 861-875
- [J83] DeJong, J.T., Soga, K., Banwart, S.A., Whalley, W.R., Ginn, T.R., Nelson, D.C., Mortensen, B.M., Martinez, B.C. and Barkouki, T. (2011) "Soil engineering in vivo: harnessing natural biogeochemical systems for sustainable, multifunctional engineering solutions," *Journal of Royal Society-Interface*, Vol. 8, pp.1-15
- [J84] Soga, K., Chau, C.Y.K., Nicholson, D. and Pantelidou, H. (2011): "Embodied Energy: Soil Retaining Geosystems," Special Issue on Energy Geotechnology, *KSCE Journal of Civil Engineering*, Vol 15, No. 4, pp. 739-749.
- [J85] Hughes, L., Phear, A., Nicholson, D., Pantelidou, H., Soga, K., Guthrie, P., Kidd, A. and Fraser, N. (2011) "Carbon dioxide from earthworks: a bottom-up approach," *Proceedings of ICE, Civil Engineering* 164 May 2011, pp. 66-72
- [J86] Yimsiri, S. and Soga, K. (2011). "Cross-anisotropic elastic parameters of two natural stiff clays," *Géotechnique*, Vol. 61, No. 9, 809–814
- [J87] Yimsiri, S. and Soga, K. (2011). "Effects of soil fabric on behaviors of granular soils: Microscopic modeling," *Computers and Geotechnics*, Volume 38, No. 7, pp. 861-874

- [J88] Inui, T., Chau, C.Y.K., Soga, K., Nicholson, D. and O'Riordan, N. (2011): "Embodied energy and gas emissions of retaining wall structures", *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 137, No. 10, pp. 958-967
- [J89] Cheong, T.P., Soga, K. and Robert, D.J. (2011): "3-D FE Analyses of Buried Pipeline with Elbows subjected to Lateral Loading", Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers, Vol. 137, No. 10, pp. 939-948
- [J90] Yimsiri, S. and Soga, K. (2011): "Closure, DEM analysis of soil fabric effects on behaviour of sand," *Géotechnique*, Vol. 61, No. 8, pp. 717–719
- [J91] Mohamad, H., Soga, K. and Pellow, A. (2011): "Performance Monitoring of a secant piled wall using distributed fibre optic strain sensing," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 137, No. 12, pp. 1236-1243
- [J92] Chau, C.Y.K., Soga, K., O'Riordan, N., and Nicholson, D. (2012) "Embodied energy evaluation for sections of the UK Channel Tunnel rail link," *Proceedings of the ICE Geotechnical Engineering*, Volume 165, Issue 2, August 2011, pp. 65–81
- [J93] Hada, A., Soga, K., Liu, R., and Wassell, I.J. (2012): "Lagrangian heuristic method for the wireless sensor network design problem in railway structural health monitoring," *Mechanical Systems and Signal Processing*, Vol. 28, pp. 20-35
- [J94] Uchida, S., Soga, K. and Yamamoto, K. (2012) "Methane hydrate critical state soil constitutive model", *Journal of Geophysical Research Solid Earth*, Vol. 117, B03209, 13pp doi:10.1029/2011JB008661
- [J95] Jung, J.W, Santamarina, J.C. and Soga, K. (2012) Stress-Strain Response of Hydrate-Bearing Sands: Numerical Study Using DEM Simulations, *Journal of Geophysical Research Solid Earth*, Vol. 117, B04202, 12 pp., doi:10.1029/2011JB009040
- [J96] Ye G. and Soga K. (2012): "Energy Harvesting from Water Distribution Systems", *Journal of Power Engineering*, American Society of Civil Engineers, Vol. 138, No. 1, 7-17
- [J97] Mohamad, H., Soga, K., Bennett, P.J., Mair, R.J. and Lim, C.S. (2012): "Monitoring Twin Tunnel Interactions Using Distributed Optical Fiber Strain Measurements" *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 138, No. 8, pp. 957-967
- [J98] Amatya, B.L., Soga, K., Bourne-Webb, P.J. and Laloui, L. (2012): "Thermo-mechanical performance of energy piles," *Géotechnique*, Volume 62, No. 6, 503 –519
- [J99] Kanayama, M., Ohtsubo, M., Higashi, T., Tanaka, M., & Soga, K. (2012): Evaluation of microscopic behaviour for clay by using micro-indenter. Journal of the Faculty of Agriculture, Kyushu University, Vol. 57, No. 1, pp.189-194
- [J100] Al Qabany, A., Soga, K. and Santamarina, J.C. (2012): "Factors Affecting Efficiency of Microbially Induced Calcite Precipitation," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 138, No. 8, pp. 992-1001
- [J101] Uchida, S., Soga, K., Klar, A. and Yamamoto, K. (2012): "Geomechanical study of the Mallik methane gas production field trials", *Geological Survey of Canada*, Bulletin 601, pp. 191-204
- [J102] Ellison, K., Soga, K. and Simpson, B. (2012): "A strain space soil model with evolving stiffness anisotropy", *Géotechnique*, Volume 62, No. 7, pp. 627–641
- [J103] Falser, S., Uchida, S., Palmer, A.C., Soga, K., and Tan, T.S. (2012): "Increased Gas Production from Hydrates by Combining Depressurisation with Heating of the Wellbore," *Energy & Fuels*, Vol. 26, No. 10, pp 6259–6267
- [J104] Laver, R., Soga, K., Wright, P. and Jefferis, S. (2012): "Permeability of aged grout around tunnels in London," *Géotechnique*, Volume 63, Issue 8, December 2012 pages 651 –660
- [J105] Klar, A., Uchida, S., Soga, K. and Yamamoto, K. (2013) "Fully Coupled Thermal-Flow-Mechanical Formulation for Gas Hydrate Sediments", SPE Journal, 18 (2), pp. 196-206
- [J106] Garber, D., Choudhary, R. and Soga, K. (2013): "Risk based lifetime costs assessment of a ground source heat pump (GSHP) system design: Methodology and case study," Building and Environment Vol. 60 pp. 66-80
- [J107] DeJong, J.T., Soga, K., Kavazanjian, E., Burns, S., van Paassen, L., Fragaszy, R., Al Qabany, A., Aydilek, A., Bang, S.S., Burbank, M., Caslake, L., Chen, C.Y., Cheng, X., Chu, J., Ciurli, S., Fauriel, S., Filet, A.E., Hamdan, N., Hata, T., Inagaki, Y., Jefferis, S., Kuo, M., Laloui, L., Larrahondo, J., Manning, D. Martinez, B., Mortensen, B., Nelson, D., Palomino, A., Renforth, P., Santamarina, J.C., Seagren, E.A., Tanyu, B., Tsesarsky, M. and Weaver, T. (2013): "Biogeochemical Processes and Geotechnical Applications: Progress, Opportunities, and Challenges," Géotechnique, Géotechnique, Vol. 63, No. 4, pp. 287 –301
- [J108] Al Qabany, A. and Soga, K. (2013): "Effect of Chemical Treatment Used in MICP on Engineering Properties of Cemented Soils," Géotechnique, Vol. 63, No. 4, pp. 331 –339
- [J109] Bourne-Webb, P.J., Amatya, B. and Soga, K. (2013): "A framework for understanding energy pile behaviour," Proceedings of the ICE Geotechnical Engineering, 166(2):170-177
- [J110] Wongsaroj, J., Soga, K. and Mair, R.J. (2013) "Tunnelling induced consolidation settlements in London clay, Géotechnique, Volume 63, Issue 13, May 2013 pages 1103 –1115

- [J111] Jia, Y., Yan, J., Soga, K. and Seshia, A.A. (2013) "Parametrically excited MEMS vibration energy harvesters with design approaches to overcome initiation threshold amplitude", Journal of Micromechanics and Microengineering 23 (11), art. no. 114007
- [J112] Oliaei MN, Pak, A. and Soga K. (2014) "A coupled hydro-mechanical analysis for prediction of hydraulic fracture propagation in saturated porous media using EFG mesh-less method," Computers and Geotechnics, Vol. 55, pp. 254-266
- [J113] Abe, K., Soga, K., and Bandara, S. (2014). "Material Point Method for Coupled Hydromechanical Problems." *Journal of Geotechnical and Geoenvironmental Engineering* Vol. 140, No. 3, 04013033
- [J114] Marchi, M., Gottardi, G. and Soga, K. (2014): "Fracturing Pressure in Clay," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 140, No. 2, 04013008.
- [J115] Jia, Y., Yan, J., Soga, K. and Seshia, A.A. (2014) "A parametrically excited vibration energy harvester", Journal of Intelligent Material Systems and Structures, vol. 25 no. 3 278-289
- [J116] Li, Z. Soga, K., Wang, F., Wright P. and Tsuno, K. (2014): "Behaviour of cast-iron tunnel segmental joint from the 3D FE analyses and development of a new bolt-spring model," Tunnelling and Underground Space Technology, Volume 41, March 2014, Pages 176–192
- [J117] Schwamb, T., Soga, K., Mair, R. J., Elshafie, M. Z., Sutherden, R., Boquet, C., & Greenwood, J. (2014): "Fibre optic monitoring of a deep circular excavation," Proceedings of the ICE - Geotechnical Engineering, vol 167, no 2, pp 144-154
- [J116] Mohamad, H., Soga, K. and Amatya, B. (2014): "Thermal Strain Sensing of Concrete Piles Using Brillouin Optical Time Domain Reflectometry," Geotechnical Testing Journal, ASTM, Vol. 37, No. 2, pp. 20120176.
- [J117] Zhang, Y., Soga, K. and Choudhary, R. (2014): "Shallow geothermal energy application with GSHPs at city scale: study on the City of Westminster," *Géotechnique Letters*, vol 4, no 2, pp 125-131
- [J118] Masini, L., Rampello, S. and Soga, K. (2014): "An Approach to Evaluate the Efficiency of Compensation Grouting," Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers, Vol. 140, 04014073.
- [J119] Jia, Y., Yan, J., Soga, K. and Seshia, A.A. (2014): "Parametric resonance for vibration energy harvesting with design techniques to passively reduce the initiation threshold amplitude," Smart Materials and Structures, Vol. 23, No. 6, pp. 065011
- [J120] Mutabaruka, P.. Delenne, J.-Y., Soga, K. and Radjai, F. (2014): "Initiation of immersed granular avalanches," Physical Review E, Vol. 89, No. 5, pp. 052203
- [J121] Soga, K. (2014): "Understanding the real performance of geotechnical structures using an innovative fibre optic distributed strain measurement technology," Rivista Italiana di Geotechnica, Vol. 4
- [J122] Olgun, C.G., McCartney, J.S., Loveridge, F.A., Bowers, G.B., Coccia, C.J., Bouazza, A., Soga, K., Spitler, J.D., Nicholson, D. and Sutman, M. (2014) "Building codes, green certification and implementation issues, market challenges," The Journal of the Deep Foundations Institute, Vol. 8., No. 2, pp. 84-92
- [J123] Marchi, M., Gottardi, G., and Soga, K. (2014). "Closure to "Fracturing Pressure in Clay" by M. Marchi, G. Gottardi, and K. Soga." J. Geotech. Geoenviron. Eng., Vol., 14, No., 5, 07014045.
- [J124] Bandara, S. and Soga, K. (2015): "Coupling of soil deformation and pore fluid flow using material point method," Computers and Geotechnics, Vol. 63, pp. 199-214
- [J125] Nakashima, M., Hammer, A.L., Thewes, M., Elshafie, M. and Soga, K. (2015): "Mechanical behaviour of a sprayed concrete lining isolated by a sprayed waterproofing membrane," Tunnelling and Underground Space Technology, Vol. 47, pp. 143-152
- [J126] Mutabaruka, P., Kumar, K., Soga, K., Radjai, F. and Delenne, J-Y. (2015): "Transient dynamics of a 2D granular pile," The European Physical Journal E, Vol. 38, 47
- [J127] Xu, X., Soga, K., Nawaz, S., Moss, N., Bowers, K. and Gajia, M. (2015): "Performance monitoring of timber structures in underground construction using wireless SmartPlank," Smart Structures and Systems, Vol. 15, No. 769-785
- [J128] Gue, C.Y., Wilcock, M., Alhaddad, M.M., Elshafie, M.Z.B.E., Soga, K., and Mair, R.J. (2015): "The monitoring of an existing cast iron tunnel with distributed fibre optic sensing (DFOS)," Journal of Civil Structural Health Monitoring, pp.1-14
- [J129] Cheng, X.S., Zheng, G., Soga, K., Bandara, S., Kumar, K., Diao, Y. and Xu, J. (2015): "Post-failure behavior of tunnel heading collapse by MPM simulation," Science China Technological Sciences, Vol. 58, No.12, pp. 2139-2152
- [J130] Hughes, J., Yan, J., Soga, K (2015): "Development of wireless sensor network using bluetooth low energy (BLE) for construction noise monitoring," International Journal on Smart Sensing and Intelligent Systems, Vol.8, No. 2, pp.1379-1405
- [J131] Dey, R., Hawlader, B., Phillips, R. and Soga, K. (2015): "Large deformation finite-element modelling of progressive failure leading to spread in sensitive clay slopes," Geotechnique, Vol. 65, No.8, pp. 657-668
- [J132] Schwamb, T. and Soga, K. (2015): "Numerical Modelling of a Deep Circular Excavation at Abbey Mills in London," Vol. 65, pp. 604-619

- [J133] Funnell, A., Xu, X., Yan, J., and Soga, K. (2015) "Simulation of BOTDA and Rayleigh COTDR systems to study the impact of noise on dynamic sensing," International Journal on Smart Sensing and Intelligent Systems, Vol. 8, No. 3, 1576-1600
- [J134] Li, Z., Soga, K. and Wright, P. (2015) "Long-term performance of cast-iron tunnel cross passage in London clay," Tunnelling and Underground Space Technology, Volume 50, August 2015, Pages 152-170
- [J135] Li Z., Soga, K., Wright, P. (2015), "Behaviour of cast-iron bolted tunnels and their modelling", Tunnelling and Underground Space Technology, Vol. 50, 250-269.
- [J136] Chaiyasarn, K., Kim, T.K., Viola, F., Cipolla, R. and Soga, K. (2015) "Towards distortion-free image mosaicing for tunnel inspection based on robust cylindrical surface estimation via structure from motion," ASCE Journal of Computing in Civil Engineering, 04015045.
- [J137] Zhang, Y., Choudhary, R. and Soga, K. (2015) "Influence of GSHP System Design Parameters on the Geothermal Application Capacity and Electricity Consumption at City Scale for Westminster, London," Energy and Buildings, Vol. 106, pp. 3-12
- [J138] Saxe, S., Casey, G., Guthrie, P., Soga, K. and Cruickshank, H. (2015) "Greenhouse gas considerations in rail infrastructure in the UK," Proceedings of the Institution of Civil Engineers-Engineering Sustainability, Paper 1500015
- [J139] Yu, Y., Luo, L., Li, B., Guo, L., Yan, J. and Soga, K. (2015): "Double peak induced distance error in STFT-BOTDR event detection and the recovery method," Applied Optics, 54(28), E196-E202
- [J140] Stent, S., Gherardi, R., Stenger, B., Soga, K. and Cipolla, R. (2014): "Visual change detection on tunnel linings," Machine Vision and Applications, Volume 27, Issue 3, Pages 319-330
- [J141] Jiang, N., Yoshioka, H., Yamamoto, K. and Soga, K. (2016): "Ureolytic activities of a urease-producing bacterium and purifiedurease enzyme in the anoxic condition: Implication for subseafloorsand production control by microbially induced carbonateprecipitation (MICP)," Ecological Engineering, Vol. 90, pp.96-104
- [J142] Luo, L., Li, B., Yu, Y., Xu, X., Soga, K. and Yan, J. (2016): "Time and Frequency Localized Pulse Shape for Resolution Enhancement in STFT-BOTDR," Journal of Sensors, Volume 2016 (2016), Article ID 3204130, 10 pages
- [J143] Soga, K., Alonso, E., Yerro, A., Kumar, K. and Bandara, S. (2016): "Trends in large-deformation analysis of landslide mass movements with particular emphasis on the material point method," Geotechnique, Volume 66 Issue 3, March, pp. 248-273
- [J144] Fern, J. and Soga, K. (2016): "The Role of Constitutive Models in MPM Simulations of Granular Column Collapses," Acta Geotechnica, Vol. 11, No. 3, pp.659-678
- [J145] Li, Z., Soga, K. and Wright, P. (2016): "3D finite element analysis of the behaviour of cross passage between cast-iron tunnels," Canadian Geotechnical Journal, 10.1139/cgj-2015-0273
- [J146] Dey, R., Hawlader, B.C., Phillips, R. and Soga, K. (2016): "Numerical modeling of submarine landslides with sensitive clay layers," Geotechnique, Volume 66, Issue 6, pp. 454-468
- [J147] Jiang, N. and Soga, K. (2016): "The applicability of microbially induced calcite precipitation (MICP) for internal erosion control in gravel-sand mixtures," Geotechnique, Vol., 67, No. 1, pp. 42-55
- [J148] Jiang, N., Soga, K. and Kuo, M.Y.H. (2016): "Microbially Induced Carbonate Precipitation (MICP) for Seepage-Induced Internal Erosion Control in Sand-Clay Mixtures," ASCE Journal of Geotechnical and Geoenvironmental Engineering, Vol., 143, No. 3, 04016100
- [J149] Robert, D., Soga, K., O'Rourke, T.D., Sakanoue, T. (2016): "Lateral load-displacement behaviour of pipelines in unsaturated sands," ASCE Journal of Geotechnical and Geoenvironmental Engineering, Vol. 142, No. 11, 04016060
- [J150] Robert, D., Soga, K., and O'Rourke, T.D. (2016): "Pipelines Subjected to Fault Movement in Dry and Unsaturated Soils," International Journal of Geomechanics, Vol. 16, No. 5, C4016001.
- [J151] Dey, R., Hawlader, B.C., Phillips, R. and Soga, K. (2016): "Numerical Modeling of Combined Effects of Upward and Downward Propagation of Shear Bands on Stability of Slopes with Sensitive Clay," International Journal for Numerical and Analytical Methods in Geomechanics, Vol. 40, No. 15, pp. 2076-2099
- [J152] Yu, Y., Xu, X., Cheng, Y. and Soga, K. (2016): "Discrete Element Modelling of Methane Hydrate Soil Sediments using Elongated Soil Particles," Computers and Geotechnics, Vol. 80, pp. 397-409
- [J153] Fern, J., Robert, D. and Soga, K. (2016): "Modeling the Stress-Dilatancy Relationship of Unsaturated Silica Sand in Triaxial Compression Tests," ASCE Journal of Geotechnical and Geoenvironmental Engineering, Vol., 142, No. 11, 04016055
- [J154] Do, C.D., Erbes, A., Yan, J., Soga, K. and Seshia, A.A. (2016): "Vacuum packaged low-power resonant MEMS strain gauge," Journal of MEMS, Vol. 25, No. 5, pp. 851-858
- [J155] Belsito, L., Ferri, M., Mancarella, F., Masini, L., Yan, J., Seshia. A.A., Soga, K. and Roncaglia, A. (2016): "Fabrication of High-Resolution Strain Sensors Based on Wafer-Level Vacuum Packaged MEMS Resonators," Sensors & Actuators A, Volume 239, 1 March 2016, Pages 90-101
- [J156] Schwamb, T., Elshafie, M., Soga, K. and Mair, R.J. (2016): "Considerations for monitoring of deep circular excavations," Proceedings of the Institution of Civil Engineers-Geotechnical Engineering, Vol. 169, No. 6, pp. 477-493

- [J157] Acikgoz, S., Pelecanos, L., Giardina, G., Aitken, J., & Soga, K. (2017). Distributed sensing of a masonry vault during nearby piling. Structural Control and Health Monitoring, 24(3)
- [J158] Dey, R., Hawlader, B.C., Phillips, R. and Soga, K. (2016): "Modeling of large-deformation behaviour of marine sensitive clays and its application to submarine slope stability analysis," Canadian Geotechnical Journal, Vol. 53, No.7, pp. 1138-1155
- [J159] Soga, K. and Schooling, J. (2016): "Infrastructure Sensing," Interface Focus, Royal Society Publishing, Volume 6, Issue 4, Article number 20160023, 17p
- [J160] Martani, C., Jin, Y., Soga, K. and Scholtes, S. (2016) "Design with uncertainty: the role of future options for infrastructure integration," Computer-Aided Civil and Infrastructure Engineering, Vol. 31, No. 10, pp. 733-748
- [J161] Pantelidou, H., Casey, G., Chapman, T., Guthrie, P. and Soga, K. (2016): "Re-thinking UK transport emissions getting to the 2050 targets," Proceedings of the Institution of Civil Engineers Civil Engineering, Vol.169, No. 4, pp.177-183
- [J162] Zhao, J., Jiang, M., Soga, K. and Luding, S. (2016): "Micro origins for macro behavior in granular media (editorial)", Granular Matter, Volume 18, Issue 3, pp. 1-5
- [J163] Fern E.J., de Lange, D.A., Zwanenburg, C., Teunissen, J.A.M., Rohe, A. and Soga, K. (2017): "Experimental and numerical investigations of dyke failures involving soft materials," Engineering Geology, Vol. 219, 130-139
- [J164] Laver, R., Li, Z., and Soga, K. (2016). "Method to Evaluate the Long-Term Surface Movements by Tunneling in London Clay." J. Geotech. Geoenviron. Eng., Vol. 143, No. 3, 06016023
- [J165] Yu, Y., Luo, L., Li, B., Soga, K. and Yan, J. (2016) "Frequency Resolution Quantification of Brillouin-Distributed Optical Fiber Sensors, IEEE Photonics Technology Letters, Vol. 28, No. 21, pp. 2367-2370
- [J166] Soga, K., Cheng, Y.P., Kwok, C.Y., and Tomac, I. (2016) "Editorial: Special issue on "Geomechanics from Micro to Macro," Computers and Geotechnics, Vol. 80, pp. 351-352
- [J167] Li, B., Luo, L., Yu, Y., Soga, K. and Yan, J. (2017) "Dynamic Strain Measurement Using Small Gain Stimulated Brillouin Scattering in STFT-BOTDR," IEEE Sensors Journal, Vol. 17., No. 9, pp. 2718-2724
- [J168] Kularathna, S., and Soga, K. (2017). "Implicit formulation of material point method for analysis of incompressible materials," Computer Methods in Applied Mechanics and Engineering, Vol. 313, pp. 673-686
- [J169] Ding, W., Gong, C., Mosalam, K.M., and Soga, K. (2017) "Development and application of the integrated sealant test apparatus for sealing gaskets in tunnel segmental joints," Tunnelling and Underground Space Technology, Vol. 63, pp. 54-68.
- [J170] Acikgoz, S., Soga, K., & Woodhams, J. (2017). Evaluation of the response of a vaulted masonry structure to differential settlements using point cloud data and limit analyses. Construction and Building Materials, 150, 916-931.
- [J171] Jin, Y., Ding, W., Yan, Z., Soga, K., & Li, Z. (2017). Experimental investigation of the nonlinear behavior of segmental joints in a water-conveyance tunnel. Tunnelling and Underground Space Technology, 68, 153-166.
- [J172] Gong, C., Ding, W., Mosalam, K.M., Günay, S. and Soga, K. (2017): Comparison of the structural behavior of reinforced concrete and steel fiber reinforced concrete tunnel segmental joints, Tunnelling and Underground Space Technology, Volume 68, 2017, Pages 38-57
- [J173] You, T., Li, X., Wu, W., Shi, W., Wang, B., & Soga, K. (2017). Coupled heating of ground-coupled heat pump system with heat compensation unit: Performance improvement and borehole reduction. Energy Conversion and Management, 148, 57-67.
- [J174] Kumar, K., Delenne, J.-Y., & Soga, K. (2017). Mechanics of granular column collapse in fluid at varying slope angles. Journal of Hydrodynamics, Ser. B, 29(4), 529-541.
- [J175] Kularathna, S., & Soga, K. (2017). Comparison of two projection methods for modeling incompressible flows in MPM. Journal of Hydrodynamics, Ser. B, 29(3), 405-412.
- [J176] Martani, C., Stent, S., Acikgoz, S., Soga, K., Bain, D., & Jin, Y. (2017). Pedestrian monitoring techniques for crowd-flow prediction. Proceedings of the Institution of Civil Engineers-Smart Infrastructure and Construction, Vol. 2, 1-11.
- [J177] Leung, Y. F. A., Klar, A., Soga, K., & Hoult, N. A. (2017). Superstructure-foundation interaction in multi-objective pile group optimization considering settlement response. Canadian Geotechnical Journal
- [J178] Pelecanos, L., Soga, K., Chunge, M. P. M., Ouyang, Y., Kwan, V., Kechavarzi, C., & Nicholson, D. (2017). Distributed fibre-optic monitoring of an Osterberg-cell pile test in London. Geotechnique Letters, 1-9.

Conference Papers

- [C1] Kamon, M., Soga, K., Kiyama, M. and Inoue, K. (1987): "Fecal pellets in the marine clay in Osaka Bay and their effect on geotechnical properties," Proc. Symp. on Seabed Mechanics, JSSMFE, pp. 127-132 (in Japanese)
- [C2] Akai, K., Kamon, M. and Soga, K. (1990): "Long term subsidence in reclaimed lands" Proceedings, 10th European Conference on Soil Mechanics, Vol. 2, pp. 777-780

- [C3] Nakagawa, K. and Soga, K. (1995): "Nonlinear cyclic stress-strain relations of soils," Third International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, St. Louis, April 2-7, pp.57-60
- [C4] Nakagawa, K. and Soga, K. (1995): "Observation of propagating elastic waves in granular soils by the pulse transmission method," Seventh International Conference on Soil Dynamics and Earthquake Engineering, Greece, May 24-26, pp. 299-307
- [C5] Soga, K. and Mitchell, J.K. (1995): "Numerical and experimental studies related to the deformation history of the Tower of Pisa," International Symposium on Compression and Consolidation of Clayey soils, Hiroshima, May 10-12, pp. 757-762
- [C6] Nakagawa, K., Soga, K., Mitchell, J.K. and Sadek, M.S. (1995): "Soil structure changes during and after consolidation as indicated by shear wave velocity and electrical conductivity measurements," International Symposium on Compression and Consolidation of Clayey soils, Hiroshima, May 10-12, Vol. 2
- [C7] Espinoza, R.D., Bray, J.D., Taylor, R.L., and Soga, K. (1995): "GeoFEAP for Geotechnical Engineering Analysis," Proc. of the Second Congress on Computing in Civil Engineering, Atlanta, Ed. J.P. Mohsen, June 5-8, pp. 804-811
- [C8] Soga, K., Nakagawa, K., and Mitchell, J.K. (1995): "Measurement of stiffness degradation characteristics of clays using a torsional shear device," First International Conference on Earthquake Geotechnical Engineering, Tokyo, Nov. 14-16, pp. 107-112
- [C9] Loroy, J.J.C., Soga, K., Savvidou, C. and Britto, A.M. (1996): "Finite element analysis of consolidation and contaminant transport in porous media," Environmental Geotechnics, Kamon, M. (ed.) Proceedings, 2nd International Congress on Environmental Geotechnics, Balkema, pp. 263-268
- [C10] Mitchell, J.K., Baxter, C.D.P. and Soga, K. (1997): "Time effects on the stress-deformation behavior of soils (Invited paper)," Proceedings of Professor Sakuro Murayama Memorial Symposium, Kyoto University, April 12, 1997, pp. 1-64
- [C11] Soga, K., Bransby, M.F. and Sato, M. (1997): "Experimental investigation of stiffness degradation and damping behaviour of sands with different viscosity pore fluids," SDEE'97, Eighth International Conference on Soil Dynamics and Earthquake Engineering, July 20-24, 1997, Istanbul, Turkey
- [C12] Carrier, M. and Soga, K. (1997): "A four terminal measurement system for the investigation of the dielectric properties of clay at low frequency," Proceedings, Geoenvironmental Engineering, Contaminated Ground: Fate of Pollutants and Remediation, University of Wales, Cardiff, pp. 3-10
- [C13] Potter, L.J., Loroy, J.J.C., Soga, K., Savvidou, C. and Gibson, R.E. (1997): "Mineral waste disposal numerical and centrifuge modelling," Proceedings of XIV International Conference on Soil Mechanics and Foundation Engineering at Hamburg, Germany, pp. 1847-1852
- [C14] Carrier, M. and Soga, K. (1998): "Dielectric measurements of clay as a potential method of contaminant detection," Proceedings of 3rd International Congress on Environmental Geotechnics, 7-11 September, Volume 2, pp. 491-496
- [C15] Ellis, E.A., Soga, K., Bransby, M.F. and Sato, M. (1998): "Effect of pore fluid viscosity on the cyclic behaviour of sands," Proceedings of International Conference Centrifuge 98, Tokyo, pp. 217-222
- [C16] Garnier, J., et al. (1998): "NECER: Network of European centrifuges for environmental geotechnic research," Proceedings of International Conference Centrifuge 98, Tokyo, Preprint volume, pp. 33-55
- [C17] Yimsiri. S. and Soga, K. (1999): "Effect of surface roughness on small strain stiffness of soils micromechanical approach," Pre-failure deformation characteristics of geomaterials (IS-Torino), Jamiolkowski, Lancellotta & Lo Presti (eds). Balkema, pp. 597-602
- [C18] Lee, S.W., G.R. Dasari, Bolton, M.D., Soga, K., Mair, R.J., Sugiyama, T., Hagiwara, T. and Nomoto, M. (1999): "The Effects of Compensation Grouting around Segmental Tunnel Linings", Geotechnical Aspects of Underground Construction in Soft Ground (IS-Tokyo 99), Kusakabe, Fujita and Miyazaki (eds), Balkema, pp. 257-262
- [C19] Gourvenec, S.M., Bolton, M.D., Soga, K., Gui, M.W, Mair, R.J., Edmonds, H., Chudleigh, I.L.J., and Butler, A.P. (1999): "Field investigations of long term ground loading on an old tunnel in London Clay", Geotechnical Aspects of Underground Construction in Soft Ground (IS-Tokyo 99), Kusakabe, Fujita and Miyazaki (eds), Balkema, pp. 219-224
- [C20] Sugiyama, T., Nomoto, T., Nomoto, M., Ano, Y, Hagiwara, T., Mair, R.J., Bolton, M.D. and Soga, K. (1999): "Application of compensation grouting to the Docklands Light Railway Lewisham extension project in London," Geotechnical Aspects of Underground Construction in Soft Ground (IS-Tokyo 99), Kusakabe, Fujita and Miyazaki (eds), Balkema, pp. 319-324
- [C21] Soga, K., Bolton, M.D., Au, S.K.A., Komiya, K., Hamelin, J.P., Van Cotthem, A., Buchet, G. and Michel, J.P. (1999): "Development of compensation grouting modelling and control system," Geotechnical Aspects of Underground Construction in Soft Ground (IS-Tokyo 99), Kusakabe, Fujita and Miyazaki (eds), Balkema, pp. 425-430
- [C22] Buchet, G., Soga, K., Gui, M.W., Bolton, M.D. and Hamelin, J.P. (1999): "COSMUS; New methods for compensation grouting," Association Francaise des Travaux en Souterrain (AFTES) International Conference "UNDERGROUND WORKS - Ambitions and Realities," 25-28 October 1999, pp. 131-137

- [C23] Coumoulos, H. and Soga, K. (1999): "Behaviour of Dense Non-Aqueous Phase Liquids leaking from a landfill," Proceedings of Seventh International Waste Management and Landfill Symposium (SARDINIA '99), October, 1999, Vol. IV, pp. 171-178
- [C24] Gui, M.W., Soga, K., Bolton, M.D., Hamelin, J.P., Hass, G., Burges, N. and Bulter, A.P. (1999): "Instrumented borehole drilling using ENPASOL system," Field Measurements In Geomechanics, Leung, Tan and Phoon (eds), Balkema, pp. 577-581
- [C25] Macklin, S.R., Yimsiri, S. and Soga, K. (1999): "Assessment of the strength and stiffness of the London Clay Formation at Crown Wharf, London," Field Measurements in Geomechanics, Leung, Tan and Phoon (eds), Balkema, pp. 565-570
- [C26] Soga, K., Kechavarzi, C., Coumoulos, H., Shu, S., Kawabata, J., Esposito, G. and Allersma, H.G.B. (2000): "Centrifuge modelling of water drainage and LNAPL infiltration in unsaturated soil deposits," International Symposium on Physical Modelling and Testing in Environmental Geotechnics, La Baule, pp. 293-300
- [C27] Soga, K., Coumouls, H., Konig, D. and Rezzoug, A. (2000): "Some remakes on water movement in homogeneous unsaturated soils in relation to centrifuge testing," International Symposium on Physical Modelling and Testing in Environmental Geotechnics, La Baule, pp. 243-250
- [C28] Rezzoug, A., Konig, D. Triantafyllidis, Th., Soga, K. and Coumoulus, H. (2000): "Scaling laws in centrifuge modelling for capillary rising in soils," International Symposium on Physical Modelling and Testing in Environmental Geotechnics, La Baule, pp. 225-232
- [C29] Esposito, G., Allsersma, H.G.B., Soga, K., Kechavarzi, C. and Coumoulos, H. (2000): "Centrifuge simulation of LNAPL infiltration in partially saturated porous granular medium," International Symposium on Physical Modelling and Testing in Environmental Geotechnics, La Baule, pp. 277-284
- [C30] Kechavarzi, C., Soga, K. and Illangasekare, T. (2000): "Laboratory investigation of LNAPL migration in a homogeneous unsaturated sand" International Symposium on Physical Modelling and Testing in Environmental Geotechnics, La Baule, 285-292
- [C31] Coumoulos, H., Soga, K. and Illangasekare, T. (2000): "1g and centrifuge tests on DNAPL migration in saturated porous media with inclined layers – modelling techniques" International Symposium on Physical Modelling and Testing in Environmental Geotechnics, La Baule, pp. 301-308
- [C32] Lee, S.W., Bolton, M.D., Dasari, G.R., Mair, R. J., Soga, K., Sugiyama, T., Ano, Y., Hagiwara, T. and Nomoto, M. (2000): "Centrifuge modelling of compensation grouting and its effects on tunnel lining and ground movement," Proceeding of GeoEng 2000, Melbourne (in CD-Rom)
- [C33] Ratnam, S., Soga, K., Mair, R. and Bidwell, T. (2000): "A novel in situ permeability measurement technique using the Cambridge self boring pressuremeter," Proceeding of GeoEng2000, Melbourne (in CD-Rom)
- [C34] Haigh, S.K., Madabhushi, S.P.G., Soga, K., Taji, Y. and Shamoto, Y. (2000): "Lateral Spreading during centrifuge model earthquakes", Proceeding of GeoEng2000, Melbourne. (in CD-Rom)
- [C35] Jafari, M.R., Au, S.K.A., Soga, K., Bolton, M.D., Karim, F. and Komiya, K. (2000): "Experimental and numerical investigation of compensation grouting in clay," Proceeding of GeoEng 2000, Melbourne. (in CD-Rom)
- [C36] Lee, S.W., Bolton, M.D., Mair, R.J., Soga, K., Dasari, G.R., Sugiyama, T., Ano, Y., Hagiwara, T. and Nomoto, M. (2000): "The twin tunnels construction at Docklands Light Railway Lewisham Extension, London," Proceeding of the International Conference on Advances in Strategic Technologies, August, Malaysia.
- [C37] Lee, S.W., Bolton, M.D., Mair, R.J., Soga, K., Dasari, G.R. and Hagiwara, T. (2000): "The influence of injection sequence in compensation grouting," Proceedings of the 53rd Canadian Geotechnical Conference, Montreal.
- [C38] Lee, S.W., Bolton, M.D., Mair, R.J., Soga, K., Dasari, G.R. and Hagiwara, T. (2000): "Modelling of injection in sand," Proceedings of the International Conference on Tunnels and Underground Structures, Singapore
- [C39] Yimsiri, S. and Soga, K. (2001): "Effects of soil fabric on undrained behaviour of sands," Proceeding of the Fourth International Conference on Recent Advances on Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, (in CD-Rom)
- [C40] Haigh, S., Madabhushi, S.P.G., Soga, K., Taji, Y. and Shamoto, Y. (2001): "Newmarkian Analysis of Liquefied Flow in Centrifuge Model Earthquakes," Proceeding of the Fourth International Conference on Recent Advances on Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, (in CD-Rom)
- [C41] Lee, S.W., Bolton, M.D., Mair, R.J., Soga, K., Dasari, G. and Hagiwara, T. (2001): "Soil models and stress paths on injection in sand, Proceeding of the Regional Conference on Geotechnical Aspects of Underground Construction in Soft Ground, Shanghai
- [C42] Jacobsz, S.W., Standing, J.R., Mair, R.J., Soga, K., Hagiwara, T. and Sugiyama, T. (2001): "The effects of tunneling near single driven piles in dry sand," Proceeding of the Regional Conference on Geotechnical Aspects of Underground Construction in Soft Ground, Shanghai, pp. 29-35
- [C43] Cheng, Y.P., White, D.J., Bowman, E.T., Bolton, M.D. and Soga, K. (2001): "The observation of soil microstructure under load," Proceeding of the 4th international conference on micromechanics of granular media. Y.Kishino (ed.). pp. 69-72

- [C44] Cerasi, P., Ladva, H.K., Bradbury, A.J. and Soga, K. (2001): "Measurement of the mechanical properties of filtercakes," Society of Petroleum Engineers, SPE 68948, SPE European Formation Damage Conference, Hague, The Netherlands.
- [C45] Jacobz, S.W., Standing, J.R., Mair, R.J., Soga, K., Hagiwara, T. and Sugiyama, T. (2001): "Tunneling effects on driven piles," Proceeding of International conference on response of buildings to excavation-induced ground movements, CIRIA publication
- [C46] Ratnam, S., Soga, K., Mair, R.J., Whittle, R. and Tedd, P. (2001): "An in-situ permeability measurement technique for cut-off walls using the Cambridge self boring pressuremeter," Proceedings of the 15th International Conference on Soil Mechanics and Geotechnical Engineering, Vol. 1, pp. 491-494
- [C47] Lee, S.W., Bolton, M.D., Mair, R.J., Soga, K., Dasari, G.R. and Hagiwara, T. (2001): "Centrifuge and numerical modelling of compensation grouting near tunnel lining," Proceedings of the 15th International Conference on Soil Mechanics and Geotechnical Engineering, Vol. 2, pp. 1399-1402
- [C48] Ratnam S., Soga K., Mair R.J., Whittle, R.W. and Tedd, P. (2001) "Permeability measurement using the self-boring pressuremeter", Proceedings of InSitu 2001Conference, International Conference on In Situ Measurement of Soil Properties and Case Histories, Bali, Indonesia, pp. 667-671
- [C49] Yimsiri, S. and Soga, K. (2001): "Anisotropy of highly overconsolidated clay in small- and intermediate-strain levels," Proceedings of 14th Southeast Asian Geotechnical Conference, Hong Kong
- [C50] Bowman, E.T. and Soga, K. (2002): "Time effects in creep of sands," Proceeding of international conference on constitutive and centrifuge geotechnical modelling: two extremes Ticino, Switzerland, Springman S.M. (ed.), Balkema, pp. 259-265.
- [C51] Waduge, W.A.P., Soga, K. and Kawabata, J. (2002): "Laboratory testing of air sparging/SVE system for remediation of NAPLs entrapped in heterogeneous soil," Proceedings of the International Conference on Physical Modelling in Geomechanics, ICPMG '02, Phillips, Guo and Popsecu (Eds.), pp. 373-378
- [C52] Waduge, W.A.P., Soga, K. and Kawabata, J. (2002): "Non-local equilibrium NAPL-gas mass transfer in airsparging," Proceedings of 4th International Congress on Environmental Geotechnics, de Mello and Almeida (Eds.), Vol. 2, pp. 823-828
- [C53] Kulasooriya, I., Soga, K., Dai, D. and Illangasekare, T.H. (2002): "Effect of flow direction on surfactant enhanced remediation of DNAPL," Proceedings of 4th International Congress on Environmental Geotechnics, de Mello and Almeida (Eds.), Vol. 2, pp. 829-834
- [C54] Soga, K., Page, J. and Gowers, N. (2002): "NAPL source zone remediation-mass flux approach," (Invited paper), Proceedings of the 4th International Congress on Environmental Geotechnics, de Mello and Almeida (Eds.), Vol. 2, pp. 1069-1081
- [C55] Soga, K., Kulasooriya, I.H., Waduge, W.A.P., Illangasekare, T.H. and Dai, D. (2002): "Surfactant remediation of DNAPL – column and tank experiments," Environmental Geomechanics, Vulleit, L., Laloui, L. and Schrefler, B. (eds.), EPFL Press, Monte Verita, pp. 361-366
- [C56] Au, S.K.A., Soga, K. and Bolton, M.D. (2002): "Effect of multiple injection on long-term compensation grouting, laboratory and numerical studies," Proceedings of the 4th International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground.
- [C57] Teetes, G.R., Soga, K. and Mrugala, M.J. (2002): "Back analysis of an elliptical shaft for the Texas superconducting super collider project," Proceedings of the 4th International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground.
- [C58] Waduge, W.A.P., Soga, K. and Kawabata, J. (2003): "Effect of subsurface heterogeneity on remediation of source zone by air sparging with soil vapour extraction," Consoil 2003, 8th International Conference on Contaminated Soil
- [C59] Page, J.W.E. and Soga, K. (2003): "Heterogeneous source zone characterization and remediation evaluation: a risk based mass flux approach," Consoil 2003, 8th International Conference on Contaminated Soil
- [C60] Soga, K., Kulasooriya, I.H., Mesquita, A.C., Page, J.W.E. and Waduge, W.A.P. (2003): "Evaluating risk after remediation for NAPL contaminated sites," Invited keynote paper, Groundwater Engineering, Kono, I., Nishigaki, M. and Komatsu, M. (eds), Balkema, pp.75-87
- [C61] Page, J.W.E., Soga, K. and Gowers, N.S. (2003): "DNAPL contaminant mass outflux rate and its relation to remediation cleanup level," Groundwater Engineering, Kono, I., Nishigaki, M. and Komatsu, M. (eds), Balkema, pp. 359-365
- [C62] Soga, K., Page, J.W.E. and Kulasooriya, I.H. (2003): "A risk based mass flux approach for source zone remediation evaluation," European Conference on Soil Mechanics and Geotechnical Engineering, Prague, Vol. 1, pp. 475-480
- [C63] Barla, M., Borgi, X., Mair, R.J. and Soga, K. (2003): "Numerical modelling of pipe-soil stresses during pipejacking in clays," European Conference on Soil Mechanics and Geotechnical Engineering, Prague, Vol. 2, pp. 453-458
- [C64] Yimsiri, S. and Soga, K. (2003): "Small strain stiffness anisotropy: relationship between continuum model and micromechanics model," IS Lyon, Deformation Characteristics of Geomaterials, Di Benedetto, H., Doanh, T., Geoffroy, H. and Sauzeat, C. (eds.), Balkema, pp. 313-320.

- [C65] Hori, T., Bowman, E.T., Mohri, E. & Soga, K. (2004) "Model test for progressive failure of a sandy embankment dam by seepage" *Landslides: Evaluation and Stabilization, Proc. IX International Symposium on Landslides*, 939-945, Lacerda, W.A., Ehrlich, M., Fontoura, A.B., Sayao, A. (eds), Rio de Janeiro, Brazil.
- [C66] Wongsoraj, J., Soga, K., Yimsiri, S. and Mair, R.J. (2004): "Stiffness anisotropy of London clay and its modelling: laboratory and field," Proceedings of AW Skempton Memorial Conference, Thomas Telford, pp. 1205-1216
- [C67] Kulasooriya, I. and Soga, K. (2004): "Mass Flux Behaviour of DNAPL Sources After Insitu Surfactant Flushing Remediation," 4th BGA Geoenvironmental Engineering Conference, Thomas Telford, pp. 85-92
- [C68] Waduge, W.A.P., Soga, K. and Kawabata, J. (2004): "Mass Transfer Behaviour After Air Sparging Remediation of LNAPL Source Zone – 2D Tank experiments," th BGA Geoenvironmental Engineering Conference, Thomas Telford, pp. 176-183
- [C69] Sutherland, K., Kechavarzi, C., Soga, K., Whittle, R.W. and Tedd, P. (2004): "Insitu assessment of a cement bentonite containment system," 4th BGA Geoenvironmental Engineering Conference, Thomas Telford, 575-582
- [C70] Yimsiri, S. and Soga, K. (2004), "Finite Element Analysis of Long-Term Behavior of Buried Pipe in Sand Trench Embedded in Soft Clay", Proc. of the 15th Southeast Asian Geotechnical Conference, 15SEAGC, Thailand, Eds. Sambhandharaksa et al., pp. 723-728
- [C71] Klar, A., Vorster, T.E.B., Soga, K. and Mair, R.J. (2005): "Continuum Solution of Soil-Pipe-Tunnel Interaction Including Local Failure," 11th International Conference of the International Association of Computer Methods and Advances in Geomechanics, Tornio, Vo. 2, 687-694
- [C72] Soga, K., Ng. M.Y.A. and Khalid, G. (2005): "Soil fracturing in grouting," 11th International Conference of the International Association of Computer Methods and Advances in Geomechanics, Tornio, Vol. 4, pp. 397-408
- [C73] Cheong, M.T. and Soga, K. (2005): "Influence of Underground Excavation on Compensation Grouting in clays; a Small-scale Laboratory Experiments," The Fifth International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground, pp. 369-375
- [C74] Wongsaroj, J., Borghi, F.X., Soga, K., Mair, R.J., Sugiyama, T., Hagiwara, T. and Bowers, K. (2005): "Effect of TBM driving parameters on ground surface movements on Channel Tunnel Rail Link Contract 220," The Fifth International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground, pp. 335-341
- [C75] Vorster, T.E.B., Mair, R.J., Soga, K. and Klar, A. (2005): "Centrifuge Modelling of the Effect of Tunnelling on Buried Pipelines: Mechanisms Observed," Fifth International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground, pp. 327-333
- [C76] Soga, K., Sutherland, K.J., Kechavarzi, C. and Whittle, R.W. (2005) "In situ Permeability Measurement of a Contaminant Containment Wall, The Sixteenth International Conference on Soil Mechanics and Geotechnical Engineering, Osaka, Vol. 4, pp. 2445-2448
- [C77] Klar, A. and Soga, K. (2005): "Coupled deformation-flow analysis for methane hydrate production by depressurized wells," 3rd Biot Conference on Poromechanics, Oklahoma, pp. 653-659
- [C78] Bowman, E.T. and Soga, K. (2005): "The influence of particle shape on the stress-strain and creep response of a fine silica sand", Powders and Grains 2005, Garcia-Rojo, R., Herrmann, H.J. and McNamara, S. (eds), Balkema, pp. 1325-1328
- [C79] Vorster, T.E.B., Soga, K., Mair, R.J., Bennett, P.J., Klar, A., and Choy, C.K. (2006) 'The use of fibre optic sensors to monitor pipeline behaviour,' ASCE Geocongress 2006. pp. 1-6. doi: 10.1061/40803(187)33
- [C80] Klar, A. and Soga, K. (2006) "Mitigation of surface fault ruptures by use of "isolated" pipelines," ASCE Geotechnical special publication No. 152, pp. 425-432
- [C81] Cheong, T.P., Soga, K., Yoshizaki, K. and Sakanoue, T. (2006), "Numerical Modelling of Buried Bended Elbow-Pipeline Subjected to Lateral Ground Displacements", Pipelines 2006: Service to the Owner, Proceedings of the ASCE Pipeline Division Specialty Conference, Chicago, ASCE, (in CD-Rom)
- [C82] Culligan, P. and Soga, K. (2006) "Non-Aqueous Phase Liquid Behavior in the Subsurface: Transportation, Source Zone Characterization and Remediation," Keynote paper, Proceedings of the International Conference on Physical Modelling in Geomechanics, Taylor and Francis, Vol. 1, pp. 29-45
- [C83] Ng, M.Y.A, Klar, A., Soga, K., Takagi, K. and Okawa, K. (2006): "Physical and numerical modeling of horizontal gashydrate wells," Proceedings of the International Conference on Physical Modelling in Geomechanics, Taylor and Francis, Vol. 2, pp. 1501-1506
- [C84] Vorster, T.E.B., Mair, R.J., Soga, K., Klar, A. and Bennett, P.J. (2006) "Using BOTDR fibre optic sensors to monitor pipeline behaviour during tunnelling," Proceeding of the Third European Workshop on Structural Health Monitoring, Granada, pp. 930-937
- [C85] Soga, K., Gafar, K.O., Ng, M.Y.A. and Au, S.K.A. (2006): "Macro and micro behaviour of soil fracturing," Balkema, Geomechanics and Geotechnics of Particulate Media, Taylor and Francis, pp. 421-427

- [C86] Elshafie, M.Z.E.B., Mair, R.J., Soga, K. & Choy, C.K. (2006). Excavation induced ground movements behind a single-propped wall. Proceedings of The Sixth European Conference on Numerical Methods in Geotechnical Engineering, Graz, Austria Schweiger (ed.), Taylor & Francis Group, pp. 375-381
- [C87] Soga, K. (2006) "Innovation in Monitoring and Assessment of Ageing Civil Engineering Infrastructure", Proceeding of Geo-Risk Engineering, The Engineering Institute of Thailand, pp.14-27
- [C88] Bennett, P.J., Klar, A., Vorster, T.E.B., Choy, C.K., Mohamad, H., Soga, K., Mair, R.J., Tester, P.D. and Fernie, R. (2006) "Distributed optical fibre strains sensing in piles," Reuse of Foundation for Urban Sites, Proceedings of International Conference, A.D. Butcher, J.J.M. Powell, H.D. Skinner (eds.), HIS Press, EP73, pp. 69-78
- [C89] Chau, C., Soga, K. and Nicholson, D. (2006) "Comparison of embodied energy of four different retaining wall systems," Reuse of Foundation for Urban Sites, Proceedings of International Conference, A.D. Butcher, J.J.M. Powell, H.D. Skinner (eds.), HIS Press, EP73, pp. 277-285
- [C90] Soga, K., Lee, S.L., Ng, M.Y.A. and Klar, A. (2006). Characterisation and engineering properties of methane hydrate soils. Characterisation and Engineering Properties of Natural Soils, Taylor and Francis, Vol. 4, pp.2591-2642.
- [C91] Mohamad, H., Bennett, P.J., Soga, K., Klar, A. and Pellow, A. (2007): Distributed Optical Fiber Strain Sensing in a Secant Piled Wall, Proceedings of the Seventh International Symposium on Field Measurements in Geomechanics (FMGM2007), ASCE Geotechnical Special Publication, No. 175, pp. 1-12
- [C92] Mohamad, H., Bennett, P.J., Soga, K., Mair, R.J., Lim, C.S. Knight-Hassell, C.K., and Ow, C.N. (2007): Monitoring tunnel deformation induced by close-proximity bored tunneling using distributed optical fiber strain measurements, Proceedings of the Seventh International Symposium on Field Measurements in Geomechanics (FMGM2007), ASCE Geotechnical Special Publication, No. 175, pp.1-13
- [C93] Vaníček, M., Vaníček, I., Pruška, J., Bubeníček, M., Jirásko, D., Soga, K. (2007): "Prognosis of underground structures deterioration based on in-situ measurements," "Proceedings of the 33rd ITA-AITES World Tunnel Congress Underground Space The 4th Dimension of Metropolises" 2, pp. 933-938
- [C94] Chau, C.Y.K., Soga, K., Nicholson, D., O'Riordan, N. and Inui, T. (2008) "Embodied Energy as an Environmental Impact Indicator for Geotechnical Basement Construction," GeoCongress 2008, ASCE Geotechnical Special Publication No.178, pp. 867-874
- [C95] Janmonta, K. Uchimura, T. Amatya, B.L., Soga, K. Bennett, P.J., Lung, R. and Robertson, I. (2008). "Fibre Optics Monitoring of Clay Cuttings and Embankments along London's Ring Motorway," GeoCongress 2008, Characterization, Monitoring and Modeling of Geosystems, ASCE Geotechnical Special Publication No. 179, pp. 509-516
- [C96] Joshi, K., Soga, K., Ng, M.Y.A. and Kechavarzi, C. (2008) "Durability Study of Eleven Years Old Cement-Bentonite Cut-off Wall Material," GeoCongress 2008, ASCE Geotechnical Special Publication No. 177, pp. 620-627
- [C97] Gafar, K., Soga, K. Bezuijen, A., Sanders, M.P.M. and van Tol, A.F. (2008) "Fracturing of sand in compensation grouting", IS-Shanghai, The 6th International Symposium Geotechnical Aspects of Underground Construction in Soft Ground, pp. 188-193
- [C98] Date, K., Mair, R.J. and Soga, K. (2008) "Reinforcing effects of forepoling and facebolts in tunneling", IS-Shanghai, The 6th International Symposium Geotechnical Aspects of Underground Construction in Soft Ground, pp. 494-499
- [C99] Ng, M.Y.A, Klar, A. and Soga, K. (2008) "Coupled Soil Deformation-Flow-Thermal Analysis of Methane Production in Layered Methane Hydrate Soils," OTC 19364, 2008 Offshore Technology Conference
- [C100] Ng, M.Y.A., Klar, A. and Soga, K. (2008) "J-integral based fracture model for fluid filled porous medium," First International FLAC/DEM Symposium on Numerical Modeling
- [C101] Amatya, B.L., Soga, K. Bennett, P.J., Uchimura, T., Ball, P. and Lung, R. (2008) "Installation of optical fibre strain sensors on soil nails used for stabilising steep highway cut slope", Proceedings of 1st ISSMGE International Conference on Transportation Geotechnics, pp. 276-282
- [C102] Leung, Y. F., Soga, K and Klar, A. (2008). Optimisation analysis on pile length distribution of squared pile groups. Proceedings of 2nd BGA International Conference on Foundations, ICOF2008. Brown M. J., Bransby M. F., Brennan A. J. and Knappett J. A. (Editors). IHS BRE Press, 2008, pp. 505-516.
- [C103] Soga, K., Mohamad, H. and Bennett, P.J. (2008) "Distributed fiber optics strain measurements for monitoring geotechnical structures," 6th International Conference on Case Histories in Geotechnical Engineering, CD Rom
- [C104] Soga, K. (2008) "Micro-Measurement and Monitoring System for Ageing Underground Infrastructures (Underground M3)" JSCE-EIT workshop, Bangkok
- [C105] Joshi, K., Ng, M.Y.A. and Soga, K. (2008): "Mechanical behaviour of 11 years old contaminated cement-bentonite material," Proceedings of the international symposium on deformation characteristics of geomaterials, IOS press
- [C106] Yimsiri, S, and Soga, K (2008): "DEM study of effects of soil fabric on anisotropic behavior of sand," Proceedings of the international symposium on deformation characteristics of geomaterials, IOS press
- [C107] Soga, K. and Bennett, P.J. (2008): "Micro-measurement and monitoring system for aging underground infrastructure (Underground M3)," Proceedings of the World Forum on Smart Materials and Smart Structures Technology, SMSST'07, pp. 96

- [C108] Ferri, M., Cristiani, S., Roncaglia, A., Kobayashi, Y., Soga, K. (2008): "A packaging technique for silicon MEMS strain sensors on steel," Proceedings of IEEE Sensors, art. no. 4716737, pp. 1524-1527
- [C109] Hoult, N., Bennett, P.J., Fidler, P., Soga, K. and Middleton, C.R. (2009) "Smart Infrastructure: Pervasive WSNs for a more Sustainable Europe," 4th International Conference on Structural Health Monitoring on Intelligent Infrastructure (SHMII-4)
- [C110] Hoult, N., Wu, Y., Wassell, I.J., Bennett, P.J., Soga, K. and Middleton, C.R. (2009) "Challenges in Wireless Sensor Network Installation: Radio Wave Propagation," 4th International Conference on Structural Health Monitoring on Intelligent Infrastructure (SHMII-4)
- [C111] Hoult, N., Bennett, P.J., Middleton, C.R. and Soga, K. (2009) "Distributed Fibre Optic Strain Measurements for Pervasive Monitoring of Civil Infrastructure," 4th International Conference on Structural Health Monitoring on Intelligent Infrastructure (SHMII-4)
- [C112] Yimsiri, S. and Soga, K. (2009): "Effects of initial soil fabric and mode of shearing on quasi-steady state line for monotonic undrained behavior," Proceedings of International symposium on prediction and simulation methods for geohazard mitigation, Oka, F., Murakami, A. and Kimoto, S. (eds.), CRC Press / Balkema
- [C113] F Ferri, M. and Mancarella, F. and Yan, J. and Lee, J. E.-Y. and Seshia, A. A. and Zalesky, J. and Soga, K. and Roncaglia, A. (2009), 'Design and Prototyping of a MEMS-based Crackmeter for Structural Monitoring', Proceedings of the 15th International conference on solid-state sensors, actuators and microsystems (Transducers 2009), Denver, USA, June 21-24, 2009, pp. 315-318
- [C114] Bourne-Webb, P., Amatya, B. and Soga, K. (2009) "A framework for understanding energy pile behaviour," ISSMGE
 TC 18 International Conference on Deep Foundations CPRF and Energy Piles
- [C115] Joshi, K., Soga, K. and Tedd, P. (2009) "Long-Term Performance of Cement-Bentonite Containment Wall", Proceedings of the 17th International conference on soil mechanics and geotechnical engineering, Alexandria, 5-9 October, 2009. vol. 3, pp. 2028-2031
- [C116] Mohamad, H., Soga, K. and Bennett, P. (2009) "Fibre optic installation techniques for pile instrumentation, 17th International Conference on Soil Mechanics and Geotechnical Engineering.
- [C117] Bennett, P.J., Kobayashi, Y., Hoult, N.A., Fidler, P.R.A., and Soga, K. "Wireless Sensor Networks for Underground Railway Applications: The Light at the End of the Tunnel?" 7th International Workshop on Structural Health Monitoring
- [C118] Liu, R., Wu, Y., Wassell, I.J. and Soga, K. (2009) "Frequency Diversity Measurements at 2.4 GHz for Wireless Sensor Networks Deployed in Tunnels," The 20th Personal, Indoor and Mobile Radio Communications Symposium 2009
- [C119] Liu, R., Wu, Y., Wassell, I.J. and Soga, K. (2009): "Can Frequency Diversity Provide Performance Gains for WSNs at 2.4GHz for the Fire Hydrant to Above Ground Channel," Loughborough Antennas and Propagation Conference (LAPC)
- [C120] Wong, Z. and Yan, J. and Soga, K. and Seshia, A.A. (2009) 'Dynamic mechanical amplifier in MEMS power harvesting', POWERMEMS 2009 Workshop, Washington, D.C. USA, December 1-4, 2009
- [C121] Ye, G. and Yan, J. and Wong, Z. and Seshia, A.A. and Soga, K. (2009) 'Genetic Algorithm Optimization of a Piezoelectric System for Energy Harvesting from Traffic Vibrations' Proceedings of the IEEE International Ultrasonics Symposium, (IEEE IUS2009), Roma, Italy, Sept. 20-23, 2009, 759-762
- [C122] Chaiyasarn, K., Kim, T-K., Viola, F., Cipolla, R. and Soga, K. (2009): "Image Mosaicing via Quadratic Surface Estimation with Priors for Tunnel Inspection," 2009 IEEE International Conference on Image Processing. Egypt
- [C123] Savic, D.A., Boxall, J.Bulanicki, B. Kapelan, Z., Makropoulos, C. Fenner, R., Soga, K., Marshall, I.W., Maksimovic, C., Postlethwaite, I., Ashley, R., Graham, N. (2009): "Project neptune: Improved operation of water distribution networks", Proceedings of the 10th Annual Water Distribution Systems Analysis Conference, WDSA 2009, pp. 543-558
- [C124] Leung, Y.F., Hoult, N.A., Klar, A. and Soga, K. (2010): "Coupled Foundation-Superstructure Analysis and Influence of Building Stiffness on Foundation Response," Deep Foundations and Geotechnical In Situ Testing (GSP 205), Proceedings of the 2010 GeoShanghai International Conference
- [C125] M. Ferri, F. Mancarella, L. Belsito, A. Roncaglia, J. Yan, A. A. Seshia, K. Soga, J. Zalesky, "Strain sensing on steel surfaces using vacuum packaged MEMS resonators", in: Proc. Eurosensors XXIV, September 5-8, 2010, Linz, Austria, Procedia Engineering, ISSN: 1877-7058
- [C126] Roncaglia, M. Ferri, F. Mancarella, J. Yan, K. Soga, A. A. Seshia, J. Zalesky (2010), "Micro-electro-mechanical systems for crack monitoring in ageing infrastructures", in: S(3)T2010 - School and Symposium on Smart Structural Systems Technologies, Porto (Portugal), 6-9 April 2010, p. 275-288
- [C127] Soga, K. (2010): "Micro-measurement and monitoring system for ageing underground infrastructure (UndergroundM3)," S(3)T2010 - School and Symposium on Smart Structural Systems Technologies, Porto (Portugal), 6-9 April 2010, 289-301

- [C128] Gue, C.S., Soga, K., Bolton, M.D. and Thusyanthan, N.I. (2010): "Centrifuge modeling of submarine landslide flows," Physical modeling in Geotechnics, Springman, S., Laue. J. and Seward, L. (eds.), CRC Press, pp. 1113-1118.
- [C129] Ma, X.F., Yu, L., Soga, K. and Laver, R. (2010): "Centrifuge modelling on long-term behaviour of tunnels in transitional ground," Physical modeling in Geotechnics, Springman, S., Laue. J. and Seward, L. (eds.), CRC Press, pp. 569-574
- [C130] Soga, K., Chaiyasarn, K., Viola, F., Yan, J., Seshia, A. and Cipolla, R. (2010): "Innovation in monitoring technologies for underground structures (Keynote)," Information Technology in Geo-Engineering, Proceedings of the 1st International Conference (ICITG) Shanghai, IOS Press, pp. 3-18.
- [C131] Soga, K. (2010): "Innovation in Monitoring Technologies for tunnels," Paymacotas Workshop on Tunnel Engineering, Instrumentation in tunnels and excavations, Barcelona
- [C132] Soga, K. and Joshi, K.D. (2010): "Long-term Engineering Performance of Cement-Bentonite Cut-off Walls: A Case Study (Keynote)," 6th International Congress in Environmental Geotechnics, New Delhi, pp. 151-164
- [C133] Liu, K., Joshi, K.D., Soga, K. and Araki, G. (2010): "Development of Cement-Bentonite Slurry for Backfilling Pipe-Laying Excavations," 6th International Congress in Environmental Geotechnics, New Delhi, pp. 1411-1422
- [C134] Hirai, C. And Soga, K. (2010): "An Experimental Model of Relay Deployment Planning Tool for a Wireless Sensor Network System to Monitor Civil Engineering Structures", Proceedings of the Ninth IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN 2010), February 16-18, 2010, Innsbruck, Austria, pp.164-171.
- [C135] Liu, R. Wassell, I.J. and Soga, K. (2010): "Relay node placement for Wireless Sensor Networks deployed in tunnels," 2010 IEEE 6th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), pp. 144 - 150
- [C136] Ellison, K.C., Soga, K., and Simpson, B. (2010): "An examination of strain space versus stress space for the formulation of elastoplastic constitutive models," Proceedings of European conference on numerical methods in geotechnical engineering, Trondheim, Benz, T. and Nordal, S. (eds.), Taylor & Francis
- [C137] Abe, K., Kobayashi, Y., Hirai, C., Soga, K. and Wassell, I.J. (2010): "Wireless Sensor Networks for Underground Railway Application and Network Topology and Performance," 5th World Conference on Structural Control and Monitoring (WCSCM), Tokyo, Japan, Jul 2010
- [C138] Leung, Y.F., Soga, K. and Klar, A. (2011): "Multi□Objective Foundation Optimization and Its Application to Pile Reuse", ASCE Geo-Frontiers 2011: Advances in Geotechnical Engineering Proceedings of the Geo□Frontiers 2011 Conference, March 13–16, 2011 Dallas, Han, J. and Alzamora, D.E. (eds.), doi:10.1061/41165(397)9
- [C139] Ouyang, Y., Soga, K. and Leung, Y.F. (2011): "Numerical Back Analysis of Energy Pile Test at Lambeth College, London," ASCE Geo Frontiers 2011: Advances in Geotechnical Engineering Proceedings of the Geo Frontiers 2011 Conference, March 13–16, 2011 Dallas, Han, J. and Alzamora, D.E. (eds.), doi:10.1061/41165(397)46
- [C140] Al Qabany, A., Mortensen, B., Martinez, B., Soga, K. and DeJong, J. (2011): "Microbial Carbonate Precipitation: Correlation of S□Wave Velocity with Calcite Precipitation," ASCE Geo□Frontiers 2011: Advances in Geotechnical Engineering Proceedings of the Geo□Frontiers 2011 Conference, March 13–16, 2011 Dallas, Han, J. and Alzamora, D.E. (eds.), doi:10.1061/41165(397)408
- [C141] Inagaki, Y., Tsukamoto, M., Mori, H., Sasaki, T., Soga, K., Al Qabany, A. and Hata, T. (2011): "The Influence of Injection Conditions and Soil Types on Soil Improvement by Microbial Functions, ASCE Geo□Frontiers 2011: Advances in Geotechnical Engineering Proceedings of the Geo□Frontiers 2011 Conference, March 13–16, 2011 Dallas, Han, J. and Alzamora, D.E. (eds.), doi:10.1061/41165(397)41
- [C142] Uchida, S., Soga, K., Kvalstad, T. J. and Yamamoto, K. (2011) "Geomechianical impact of soil layering in hydrate bearing sediments during gas production", In proceedings of the 7th International Conference on Gas Hydrates, Edinburgh
- [C143] Kvalstad, T. J., Yamamoto, K., Noguchi, S., Uchida, S. and Soga, K. (2011) "Effect of gas hydrate production on seabed stability in the Eastern Nankai Trough area", In proceedings of the 7th International Conference on Gas Hydrates, Edinburgh
- [C144] Salehabadi, M. Xu, E. Uchida, S. and Soga, K. (2011) "Wellbore design analysis in gas hydrate bearing sediments", In proceedings of the 7th International Conference on Gas Hydrates, Edinburgh
- [C145] Laver, R. G. and Soga, K. (2011): "Performance of two constitutive models for fissures in clay," Fifth International Symposium on the Deformation Characteristics of Geo-Materials, IS-Seoul
- [C146] Ellison, K. C.; Soga, K. & Yeow, H. (2011): "Numerical modeling of hollow cylinder tests in London clay," Fifth International Symposium on the Deformation Characteristics of Geo-Materials, IS-Seoul
- [C147] Ferri M, Belsito L, Mancarella F, Masini L, Roncaglia A, Yan J, Seshia AA, Zalesky J, Soga K (2011), "Fabrication and testing of a high resolution extensometer based on resonant MEMS strain sensors, 16th International Solid-State Sensors, Actuators and Microsystems Conference, TRANSDUCERS'11. 1056-1059

- [C148] Dey, R., Hawlader, B., Phillips, R. and Soga, K. (2011) "Modeling of Earthquake Induced Pore Pressure and Submarine Slope Stability Analysis", 2011 Pan-Am CGS Geotechnical Conference, Toronto, Canada.
- [C149] Nawaz, S., Efstratiou, C., Mascolo, C, and Soga, K. (2012) "Social Sensing in the Field: Challenges in Detecting Social Interactions in Construction Sites," MobiSys 2012, The 10th International Conference on Mobile Systems, Applications and Services
- [C150] Gue, C.S., Soga, K. and Abe, K. (2012): "Submarine landslide flows modelling through centrifuge and numerical simulations," 7th International conference on offshore site investigation and geotechnics, SUT-OSIG-12-62
- [C151] Soga, K. (2012): "Emerging sensing technologies for geotechnical engineering a case study," Proc. of the International Workshop on ICT in Geo-Engineering, Miyata, Y., Okayasu, T., Furuya, H., Uchimura, T. and Otani, J. (eds.), pp. 13-23
- [C152] Soga, K. (2012): "Innovative monitoring technologies for underground infrastructure," Keynote lecture, Proc. MEMSCON Workshop 2012, Towards Intelligent Civil Infrastructure
- [C153] Garber, D., Soga, K. and Choudhary, R. (2012): "Implementation and validation of a ground source heat pump (GSHP) system model in a TRNSYS energy simulation environment case study," GeoManitoba, Canada
- [C154] Li, Z., Soga, K., Wang, F., Wright, P., and Tsuno, K. (2012): "Behaviour of cast-iron tunnel segments and their modelling," WTC2012, ITA
- [C155] Wang, F., Huang, H., Soga, K., Li, Z., Zhang, D., and Tsuno, K. (2012): "Deformation analysis of a tunnel with concrete segmental lining subjected to ground surface loading using novel joint model," WTC2012, ITA
- [C156] Kumar, K., Soga, K. and Delenne, J.-Y. (2012): "Granular flows in fluid," Discrete Element Modelling of Particulate Media, Wu C. (Ed.), RSC Publishing, pp.59-66
- [C157] Yu, Y., Cheng, Y.P. and Soga, K. (2012): "Mechanical behaviour of methane hydrate soil sediments using discrete element method: pore filling hydrate distribution", Wu C. (Ed.), RSC Publishing, pp.264-270
- [C158] Dey, R., Hawlader, B., Phillips, R. and Soga, K. (2012) "Effects of shear band propagation on Submarine Landslide", International Society of Offshore and Polar Engineering Conference-2012, Rhodes Conference, Greece, pp. 766-772.
- [C159] Jia, Y., Yan, J., Soga, K. and Seshia, A.A. (2012) "A MEMS parametrically excited vibration energy harvester", PowerMEMS 2012 Georgia Atlanta, December 2-5, pp.215-218.
- [C160] Dey, R., Hawlader, B., Phillips, R. and Soga, K. (2013) "Progressive failure of slopes with sensitive clay layers", The 18th International Conference on Soil Mechanics and Geotechnical Engineering-2013, Paris, France
- [C161] Stent, S., Gherardi, R., Stenger, B., Soga, K. and Cipolla, R. (2013): "An Image-Based System for Change Detection on Tunnel Linings," The 13th IAPR Conference on Machine Vision Applications, Kyoto
- [C162] Soga, K., Joshi, K. and Evans, J. (2013): "Cement Bentonite Cutoff Walls for Polluted Sites," Coupled Phenomena in Environmental Geotechnics: From Theoretical and Experimental Research to Practical Applications - Proceedings of the International Symposium, ISSMGE TC 215. 149-165. 2013
- [C163] Jia, Y., Yan, J., Soga, K. and Seshia, A.A. (2013) "A Multi-frequency Operation of a MEMS vibration energy harvester by accessing five orders of parametric resonance", PowerMEMS, London, Dec 2013
- [C164] Belsito, L., Ferri, M., Mancarella, F., Roncaglia, A., Yan, J., Seshia, A.A. and Soga, K. (2013) "High resolution strain 5sensing on steel by silicon-on-insulator flexural resonators fabricated with chip-level vacuum packaging", 2013 Transducers and Eurosensors XXVII: The 17th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS and EUROSENSORS 2013. 992-995
- [C165] Bell, A., Soga, K., Ouyang, Y., Yan, J. and Wang, F. (2013) "The role of fibre optic instrumentation in the re-use of deep foundations", Proceedings of the 18th International conference on Soil Mechanics and Geotechnical Engineering, Paris 2013, pp. 1863-1866
- [C166] Kumar K, Soga K, Delenne J-Y (2013): "Multi-scale modelling of granular avalanches," AIP Conference Proceedings. 1542: 1250-1253. 2013
- [C167] Yu Y, Xu X, Cheng YP, Soga K. (2013): "Study on small-strain behaviours of methane hydrate sandy sediments using discrete element method," AIP Conference Proceedings. 1542: 555-558. 2013
- [C168] Soga, K. (2013): "Smart Geo-Infrastructure Opportunities for new sensor monitoring systems," Geotechnics for Sustainable Development Geotec Hanoi 2013, Phung (eds.). Construction Publisher.
- [C169] Ryuo, S., Asaka, Y. and Soga, K. (2014) "A role of monitoring to reduce the uncertainty in the performance of pile foundations," Geotechnical Safety and Risk IV, Zhang et al. (eds.), Taylor and Francis, pp. 357-363
- [C170] Zhou, M., Xu, E., Soga, K., Uchida, S. and Yamamoto, K. (2014) "Numerical Study on Eastern Nankai Trough gas Hydrate Production Test," Offshore Technology Conference, DOI-10.4043/25169-MS
- [C171] Uchida, S., Soga, K., Xu, E., Zhou, M. and Yamamoto, K. (2014) "Numerical Analysis Of Wellbore Behaviour during Methane Gas Recovery from Hydrate Bearing Sediments," Offshore Technology Conference, DOI-10.4043/25208-MS
- [C172] Jiang N-J, Soga K, Dawoud O. (2014) "Experimental study of the mitigation of soil internal erosion by microbially induced calcite precipitation" Geo-Congress 2014. Geotechnical Special Publication. 234 pp.1586-1595

- [C173] Dawoud O, Chen CY, Soga K. "Microbial-induced calcite precipitation (MICP) using surfactants" Geotechnical Special Publication. Geo-Congress 2014. Geotechnical Special Publication. 234, pp.1635-1643
- [C174] Dawoud O, Chen CY, Soga K. (2014) "Microbial induced calcite precipitation for geotechnical and environmental applications" Proceedings of the Geo-Shanghai 2014 International Conference, held in Shanghai, China, May 26-28, 2014. Geotechnical Special Publication. 243 pp.11-18
- [C175] Alhaddad M, Wilcock M, Gue CY, Bevan H, Stent S, Elshafie MZEB, Soga K, Devriendt M, Wright P, Waterfall P. (2014) "Multi-suite monitoring of an existing cast iron tunnel subjected to tunnelling-induced ground movements" Proceedings of the Geo-Shanghai 2014 International Conference, held in Shanghai, China, May 26-28, 2014. Geotechnical Special Publication.242 293-307
- [C176] Gue CY, Wilcock M, Alhaddad MM, Elshafie MZEB, Soga K, Mair RJ. (2014) "Monitoring the effects of tunnelling under an existing tunnel-fibre optics" Geotechnical Aspects of Underground Construction in Soft Ground - Proceedings of the 8th Int. Symposium on Geotechnical Aspects of Underground Construction in Soft Ground, TC204 ISSMGE -IS-SEOUL 2014. 357-361
- [C177] Yu Y, Cheng YP, Xu X, Soga K. (2014) "Shape effect of elongated soil particles on Discrete Element Modelling of methane hydrate soil sediments," Geomechanics from Micro to Macro Proceedings of the TC105 ISSMGE International Symposium on Geomechanics from Micro to Macro, IS-Cambridge 2014. Vol.1, pp. 207-212
- [C178] Wong JK-W, Soga K, Xu X, Delenne J-Y. (2014) "Modelling fracturing process of geomaterial using Lattice Element Method" Geomechanics from Micro to Macro - Proceedings of the TC105 ISSMGE International Symposium on Geomechanics from Micro to Macro, IS-Cambridge Vol. 1, pp. 417-422
- [C179] Kumar K, Soga K, Delenne J-Y. (2014) "Underwater granular flows down inclined planes" Geomechanics from Micro to Macro - Proceedings of the TC105 ISSMGE International Symposium on Geomechanics from Micro to Macro, IS-Cambridge 2014. Vol. 1 pp. 473-478
- [C180] Fern J, Soga K, Sakanoue T. (2014) "Modelling the shear strength and dilatancy of dry sand in triaxial compression tests" Geomechanics from Micro to Macro Proceedings of the TC105 ISSMGE International Symposium on Geomechanics from Micro to Macro, IS-Cambridge 2014. Vol. 2, pp. 673-678
- [C181] Fern J, Soga K, Robert DJ. (2014) "Shear strength and dilatancy of partially saturated sand in direct shear tests" Geomechanics from Micro to Macro - Proceedings of the TC105 ISSMGE International Symposium on Geomechanics from Micro to Macro, IS-Cambridge 2014. Vol. 2, pp.1391-1396
- [C182] Zhou M, Soga K, Xu E, Yamamoto K. (2014) "Effects of methane hydrate gas production on mechanical responses of hydrate bearing sediments in local production region at Eastern Nankai trough" Computer Methods and Recent Advances in Geomechanics - Proceedings of the 14th Int. Conference of International Association for Computer Methods and Recent Advances in Geomechanics, IACMAG 2014. 1707-1712
- [C183] Fern J, Soga K, Robert DJ, Sakanoue T. (2014) "Shear strength and dilatancy of unsaturated silica sand in triaxial compression tests", Computer Methods and Recent Advances in Geomechanics - Proceedings of the 14th Int. Conference of International Association for Computer Methods and Recent Advances in Geomechanics, IACMAG 2014. Vol. 535-540
- [C184] Gue, C.Y., Wilcock, M., Alhaddad, M.M., Elshafie, M.Z.E.B., Soga, K. and Mair, R.J. (2014) "BOTDR Distributed Fibre Optic Strain Sensing for the Monitoring of an Existing Cast Iron Tunnel," The 5th International Forum on Optoelectronic Sensor-based Monitoring in Geo-engineering, Nanjing, China
- [C185] Funnell, A., Xu, X., Yan, J. and Soga, K. (2014) "Simulation of BOTDR and Rayleigh COTDR systems to study the impact of noise on dynamic sensing," The 5th International Forum on Opto-electronic Sensor-based Monitoring in Geoengineering, Nanjing, China
- [C186] Soga, K., He, Q., Rui, Y. and Nicholson, D. (2014) "Some considerations for designing GSHP coupled geotechnical structures based on a case study," The Proceedings of the 7th International Congress on Environmental Geotechnics.
- [C187] Robert DJ, Soga K, Britto AM (2014): "Analysis of soil-pipeline interaction using ABAQUS/explicit," 8th Australasian Congress on Applied Mechanics, ACAM 2014, as Part of Engineers Australia Convention 2014. 429-439.
- [C188] Rui, Y., Garber, D., Soga, K. and Yin, M. (2015) "Simulation of ground source heat pump (GSHP) system at One New Change retail center, London," International Symposium on Energy Geotechnics
- [C189] Martani, C., Jin, Y., Soga, K. and Scholtes, S.; (2015) "A New Model for Evaluating the Future Options of Integrating Ground Source Heat Pumps in Building Construction," In: Dolan, T. and Collins, B., (eds.) International Symposium for Next Generation Infrastructure Conference Proceedings: 30 September 1 October 2014 International Institute of Applied Systems Analysis (IIASA), Schloss Laxenburg, Vienna, Austria. (pp. pp.163-167). UCL STEaPP: London, UK
- [C190] Nawarz, S., Xu,X., Rodenas-Herr'aiz,D., Fidler,P., Soga,K. and Mascolo, C. (2016): "Monitoring A Large Construction Site Using Wireless Sensor Networks," Proceedings of the 6th ACM Workshop on Real World Wireless Sensor Networks, pp. 27-30

- [C191] Elshafie, M.Z.E B., Gue, C.Y., de Battista, N., Alhaddad, M., Wilcock, M., Soga, K., and Mair, R.J. (2015): "A Tale of Two Tunnels–Understanding the Performance of Existing and New Tunnels during Construction Works," Structural Health Monitoring 2015
- [C192] Jia, Y., Yan, J., Feng, T., Du, S., Fidler, P., Soga, K., Middleton, C. and Seshia, A. (2015): "A vibration powered wireless mote on the Forth Road Bridge," PowerMEMS 2015, Journal of Physics: Conference Series 660, IOP Publishing 012094
- [C193] Ouyang, Y., Broadbent, K., Bell, A., Pelecanos, L. and Soga, K. (2015): "The use of fibre optic instrumentation to monitor the O-Cell load test on a single working pile in London," Geotechnical Engineering for Infrastructure and Development, XVI ECSMGE, ICE Publishing, 643-648
- [C194] Soga, K., Kwan, V., Pelecanos, L., Rui, Y., Schwamb, T., Seo, H. and Wilcock, M. (2015): "The Role of Distributed Sensing in Understanding the Engineering Performance of Geotechnical Structures," Geotechnical Engineering for Infrastructure and Development, XVI ECSMGE, ICE Publishing, 13-48
- [C195] Ouyang, Y., Bell, A., Elshafie, M., Kechavarzi, C., Soga, K., Fernie, R. and Mair, R.J. (2015): "The history of UK experience in the use of fibre optic monitoring of geotechnically associated installations," Geotechnical Engineering for Infrastructure and Development, XVI ECSMGE, ICE Publishing, 637-642
- [C196] Casey, G., Pantelidou, H., Whitaker, D., O'Riordan, N., Soga, K. and Guthrie, P., (2015): "Capital & Operational Carbon - an assessment of the permanent dewatering solution at Stratford International Station," Geotechnical Engineering for Infrastructure and Development, XVI ECSMGE, ICE Publishing, 2511-2516
- [C197] Kobayashi, T., Soga, K. and Dimmock, P. (2015): "Numerical analysis of submarine debris flows based on critical state soil mechanics," Frontiers in Offshore Geotechnics III - 3rd International Symposium on Frontiers in Offshore Geotechnics, ISFOG 2015, Pages 975-980
- [C198] Mortada, A., Choudhary, R. and Soga, K. (2015): "Multi-dimensional simulation of underground spaces coupled with geoenergy systems," 14th International Conference of the International Building Performance Simulation Association, India
- [C199] Mortada, A., Choudhary, R., & Soga, K. (2015). Thermal Modeling and Parametric Analysis of Underground Rail Systems. Energy Procedia, 78, 2262-2267.
- [C200] de Battista, N., Kechavarzi, C. and Soga, K. (2016): "Distributed fiber optic sensors for monitoring reinforced concrete piles using Brillouin scattering," Sixth European Workshop on Optical Fibre Sensors (EWOFS'2016), International Society for Optics and Photonics, 99160U-99160U-4
- [C201] Robert, D and Soga, K (2016): "Behaviour of pipes subjected to fault movements in unsaturated soils using spring analysis", in Chen, Wei, Sun and Xu (ed.) Proceedings of the 6th Asia Pacific Conference on Unsaturated Soils: Unsaturated Soil Mechanics from Theory to Practice (AP-UNSAT 2015), pp. 753-758.
- [C202] Xu, X., Nawaz, S., Fidler, P., Rodenas-Herraiz, D., Yan, J. and Soga. K. (2016): "Wireless sensor monitoring of Paddington Station Box Corner," Proceedings of the International Conference on Smart Infrastructure and Construction, ICE Publishing
- [C203] Luo, L., Li, B., Yu, Y. Xu, X., Yan, J. and Soga, K. (2016): "Iterative filtering for time-frequency localised pulse optimisation in STFT-BOTDR," Proceedings of the International Conference on Smart Infrastructure and Construction, ICE Publishing
- [C204] Yu, Y., Luo, L., Li, B., Xu, X., Yan, J. and Soga, K. (2016): "Multiple windows algorithm for event detection in STFT-BORDER," Proceedings of the International Conference on Smart Infrastructure and Construction, ICE Publishing
- [C205] Xu, X., Fidler, P.R.A., Rodenas-Herraiz, D., Li, W., Kumar, V., Birks, J., Yan. J. and Soga, K. (2016): "Monitoring on the performance of temporary props using wireless strain sensing," Proceedings of the International Conference on Smart Infrastructure and Construction, ICE Publishing
- [C206] Kumar, V., Yan, J., Xu, X., Qian, Y. and Soga, K. (2016): "Low power DSP with wireless monitoring for civil constructions," Proceedings of the International Conference on Smart Infrastructure and Construction, ICE Publishing
- [C207] Mei, Y., Xu, X., Yan, J. and Soga, K. (2016): "Characterization on the distributed fibre optic sensors using a newly developed calibration system," Proceedings of the International Conference on Smart Infrastructure and Construction, ICE Publishing
- [C208] Di Murro, V., Pelecanos, L., Soga, K., Kechavarzi, C., Morton, R.F. and Scibile, L. (2016): "Distributed fibre optic long-term monitoring of concrete-lined tunnel section TT10 at CERN," Proceedings of the International Conference on Smart Infrastructure and Construction, ICE Publishing
- [C209] Pelecanos, L., Soga, K., Hardy, S., Blair, A., Carter, K. and Patel, D. (2016): "Distributed fibre-optic monitoring of tension piles under a basement excavation at the V&A museum in London," Proceedings of the International Conference on Smart Infrastructure and Construction, ICE Publishing
- [C210] Acikgoz, M.S., Pelecanos, L., Giardina, G., and Soga, K. (2016): "Field monitoring of piling effects on a nearby masonry vault using distributed sensing," Proceedings of the International Conference on Smart Infrastructure and Construction, ICE Publishing

- [C211] Gaglione, A., Rodenas-Herraiz, D., Jia, Y., Nawaz, S., Mascolo, C., Soga, K., & Seshia, A. A. (2016). Poster Abstract: Bridge structural monitoring through a vibration energy harvesting wireless sensor network. BuildSys '16: Proceedings of the 3rd ACM International Conference on Systems for Energy-Efficient Built Environments, Palo Alto, CA, USA, November 2016, 237-238
- [C212] Robert, D., & Soga, K. (2016). Behaviour of pipes subjected to fault movements in unsaturated soils using spring analysis. In AP-UNSAT 2015, pp. 753-758
- [C213] Soga, K., Zhang, Y., & Choudhary, R. (2016). Potential of district-scale geothermal energy in urban cities. In Energy Geotechnics: Proceedings of the 1st International Conference on Energy Geotechnics, ICEGT 2016, Kiel, Germany, 29-31 August 2016 (p. 3).
- [C214] Wilcock, M., Soga, K., & Wright, P. (2016). Monitoring mechanisms of tunnel lining settlement using instrumented bolts and conventional survey method: Assessing neutral axis of longitudinal flexure. In ITA-AITES World Tunnel Congress 2016, WTC 2016, Vol. 1, pp. 398-407.
- [C215] Coelho, B. Z., Rohe, A., & Soga, K. (2017). Poroelastic Solid Flow with Material Point Method. Procedia Engineering, 175, 316-323.
- [C216] Kumar, K., Soga, K., Delenne, J.-Y., & Radjai, F. (2017). Modelling Transient Dynamics of Granular Slopes: MPM and DEM. Procedia Engineering, 175, 94-101.
- [C217] Yerro, A., Rohe, A., & Soga, K. (2017). Modelling Internal Erosion with the Material Point Method. Procedia Engineering, 175, 365-372.
- [C218] Fern, E. J., & Soga, K. (2017). Granular Column Collapse of Wet Sand. Procedia Engineering, 175, 14-20.
- [C219] Martinelli, M., Rohe, A., & Soga, K. (2017). Modeling Dike Failure using the Material Point Method. Procedia Engineering, 175, 341-348
- [C220] Kularathna, S., & Soga, K. (2017). Projection Method in Material Point Method for Modeling Incompressible Materials. Procedia Engineering, 175, 57-64.
- [C221] Yerro, A., Rohe, A., & Soga, K. (2017). Application of MPM to model internal erosion processes in bi-modal soils. In Congress on Numerical Methods in Engineering CMN2017 (Vol. 3, p. 5).
- [C222] Rodenas-Herráiz, D., Fidler, P. R. A., Feng, T., Xu, X., Nawaz, S., & Soga, K. (2017). A handheld diagnostic system for 6LoWPAN networks. In 2017 13th Annual Conference on Wireless On-demand Network Systems and Services (WONS) (pp. 104-111).
- [C223] Kumar, K., Soga, K., & Delenne, J.-Y. (2017). Collapse of tall granular columns in fluid. EPJ Web Conf., 140, 9041.
- [C224] Casey, G., Soga, K., Silva, E., Guthrie, P., & Kumar, K. (2017). A Scalable Agent Based Multi-modal Modeling Framework Using Real-Time Big-Data Sources for Cities. Transportation Research Board 96th Annual Meeting, Transportation Research Board, 17-05941

Edited Books

- [EB1] Soga, K. (1997): "Chapter 3: Seismological Aspects," In: Hyogoken Nanbu (Kobe) of 17 January 1995, A Field Report by EEFIT, Earthquake Engineering Field Investigation Team (EEFIT), Institution of Structural Engineers
- [EB2] Soga, K. (1997): "Chapter 8: Geotechnical Aspects," In: Hyogoken Nanbu (Kobe) of 17 January 1995, A Field Report by EEFIT, Earthquake Engineering Field Investigation Team (EEFIT), Institution of Structural Engineers
- [EB3] Soga, K. (1998): "English for Geotechnical Engineers, Chapter 3.2 and 3.3," Japanese Geotechnical Society, pp.93-123 (in Japanese)
- [EB4] Robert, D.J. and Soga, K. (2010): "Chapter 13: Soil-Pipeline Interaction in Unsaturated Soils", in Mechanics of Unsaturated Geomaterials, L. Laloui (editor), John Wiley and Sons, 416pp.
- [EB5] Soga, K. (2011): "Chapter 4: Infrastructure, Embodied Energy and Gas Emission of Geotechnical Infrastructure," in Geotechnics and Earthquake Geotechnics Towards Global Sustainability, S. Iai (Editor), Springer, 254pp.
- [EB6] Hoult, N.A. and Soga, K. (2014): "Sensing solutions for assessing and monitoring tunnels," in "Sensor Technologies for Civil Infrastructures: Applications in Structural Health Monitoring" (edited by Ming L. Wang, Jerome P. Lynch, Hoon Sohn), Woodhead Publishing Ltd, Vol. 2, pp. 309-346
- [EB7] Soga, K. and Rui, Y. (2016): "Energy Geostructures," in Advances in Ground-Source Heat Pump Systems (edited by Rees, S.J.), Woodhead Publishing Ltd, pp. 185-221
- [EB8] Soga, K. (2016): "Innovation in Instrumentation, Monitoring, and Condition Assessment of Infrastructure," Multihazard Approaches to Civil Infrastructure Engineering, Gardoni, P. and LaFave, J.M. (eds.), Springer International Publishing, pp. 465-489

Patents

[P1] JP5038215 "Program, the equipment for a position of relay nodes and the method of calculating a position of relay nodes"

Kenichi Soga Curriculum Vitae

- [P2] JP5762931 "Evaluation method of deployment of wireless sensor networks and its operation cost for the condition monitoring for structures"
- [P3] "Energy-harvesting apparatus and method", CN104904110A, EP2856628A2, EP2856628B1, US20150135869, WO2013175449A2
- [P4] "Method of monitoring subsurface concrete structures", US20170067222 A1/EP3102937A1/WO2015118333 A1