About the Contributors

Tan Yigitcanlar is a senior academic and the coordinator of the Sustainable Built Environment Research Cluster at the School of Urban Development, Queensland University of Technology, Brisbane, Australia, the main foci of his research are advocating and promoting knowledge-based urban development and sustainable urban, infrastructure and transport development in city-regions. These two broad research areas are clustered around several themes: knowledge economy, knowledge city frameworks, knowledge-intensive activities, local governance, civic engagement, sustainable urban development, sustainable urban and regional infrastructures, urban and transportation modelling, accessibility planning, online decision support systems, ubiquitous city infrastructures, and understanding urban structures, processes and driving forces in the knowledge era. He vastly published in these research areas and edited five key books in the fields of Knowledge Based Urban Development and Sustainable Urban Development.

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Wendy Miller is a Senior Research Fellow in the Faculty of Built Environment and Engineering. With many years of experience in the renewable energy industry and in school, community and technical education, she brings to QUT’s energy research team a trans-disciplinary, systems-thinking approach, encompassing climate change mitigation and adaptation, sustainable energy technologies and applications, and energy efficiency. She has a strong professional interest in, and personal experience with, zero-energy and energy-plus housing, achieved through the optimisation and integration of superior design, advanced building materials and appropriate occupant behaviour. In addition to applied energy research, she is actively involved in energy policy and regulatory issues and sustainable energy industry development.

Janis Birkeland is Professor of Architecture at Queensland University of Technology in Brisbane Australia. In San Francisco, she worked consecutively as an artist, advocacy planner, architect, urban designer, city planner and attorney in San Francisco. Since moving to Australia, she has developed many courses in ecological architecture and sustainable systems, has given over 100 invited lectures and published over 100 papers on sustainable development. She was recently named among the top 100 sustainability professionals in the world by the IGP. Her PhD was on Planning for Sustainability (1993) and her books include Design for Sustainability (2002) and Positive Development (2008).
Shinyi Lee is currently a Master’s student researching in the field of sustainable water infrastructure at the Queensland University of Technology. Her research interests are mainly in the realm of sustainability, infrastructure and how climate change will impact upon urban infrastructure planning in the future.

Ashantha Goonetilleke is the Theme Leader for Infrastructure Research in the Faculty of Built Environment and Engineering, Queensland University of Technology. He has an established research track record in the area of sustainable infrastructure in relation to water, wastewater and stormwater. Professor Goonetilleke has significant success in developing extensive industry collaborative links, producing research outcomes of relevance to industry and the community and the translation of research outcomes for practical application. He also possesses sixteen years of professional experience in planning, design, construction supervision and management of internationally financed civil engineering projects in the areas of water resources management, water supply and wastewater treatment.

Prasanna Egodawatta is a Lecturer in School of Urban Development, Queensland University of Technology. He completed his Bachelors degree at the University of Peradeniya, Sri Lanka with first class honours in 2001. He received his PhD from Queensland University of Technology in 2007. Dr Prasanna has a research track record in the areas of urban hydrology, water quality engineering and water sensitive urban design. He has partnered number of industry collaborated research projects that has generated research outcomes with significant practical value. Dr Prasanna’s primary teaching interests are in fluid mechanics, engineering hydrology and water engineering.

Jim Reeves is currently General Manager of the Institute for Sustainable Resources at Queensland University of Technology. He was previously the Manager of Brisbane Water, one of Australia’s largest water businesses. He managed the ramifications of the worst drought on record. This required the reorientation of the business away from a narrow focus on engineering and asset management to a holistic approach to resource management and sustainability. Responses to the drought included supply side measures such as diversification of supply through initiatives such as increased recycling, groundwater extraction, recommissioning of old storages, storm water capture and sewer mining. Demand side measures included social marketing strategies to reduce domestic and commercial consumption, on site capture and storage, rainwater tanks and mandatory usage restrictions. Jim has a long history of involvement in public policy development and involvement in complex projects in the areas of urban systems, regional planning and community development.

Les Dawes is currently Associate Professor in the School of Urban Development at the Queensland University of Technology in Civil and Environmental Engineering where he teaches subjects in geotechnical and water engineering at both undergraduate and postgraduate level. He has been involved in the environmental and geotechnical research with industry (water recycling, small scale wastewater systems, alternate building materials, contaminated soils and groundwater evaluation) for over a decade. He brings expertise and knowledge in environmental assessment through site analysis and the development of sustainable water and wastewater systems. He has been involved in complex projects in the areas of urban systems, regional planning and community engagement. He has worked on long term projects for Aid Development agencies such as ADB, AusAID and World Bank in the Pacific (Tonga) and Asian (Thailand) regions.
Fatih Dur holds a MSc degree in Urban and Regional Planning from the Izmir Institute of Technology (IZTECH), Turkey. He is a PhD student and causal academic at the School of Urban Development, Queensland University of Technology (QUT), Australia. He has been researching on urban form and transportation interaction, planning decision support systems and sustainable urban development subjects.

Jonathan Bunker is a senior lecturer in civil engineering with the School of Urban Development at Queensland University of Technology (QUT) and researches in traffic engineering, transport planning, airports, highway engineering and infrastructure asset management, and sustainable development practices. Jonathan has a Bachelor of Engineering (Civil) with Honours 1 and a Doctor of Philosophy (QUT). Prior to joining faculty at QUT he practiced as a consulting transport engineer in Australia and the United States of America. Jonathan is presently the National President of the Australian Institute of Traffic Planning and Management, is a Fellow of AITPM and Member of the Institution of Engineers Australia.

Kristiane Davidson is a Dean’s list student studying in the Master of Urban Development (Urban & Regional Planning) program at the Queensland University of Technology, Brisbane, Australia. Her other tertiary qualifications include the completion of a Graduate Certificate in Urban & Regional Planning, a Bachelor of Applied Science- majoring in environmental science and a Bachelor of Arts- majoring in human rights and ethics; all from the Queensland University of Technology. She has also studied abroad in related university programs at Boston College, Boston and Kungliga Tekniska Högskolan, Royal Institute of Technology, Stockholm. Throughout her years of study she has also worked in environmental conservation and research, as well as conducting research in, and attending international conferences on, foreign policy and development.

Ned Lukies is the founder and owner of Mad for IT, a Brisbane based IT and Web consultancy, as well as an Urban and Regional Planning student at Queensland University of Technology. Raised in Melbourne and Barcelona, Ned moved to Brisbane as a late teen in search of the famed South East Queensland lifestyle. After riding the dot com boom, and subsequent bust, he studied engineering and architecture before finally finding his calling in planning. As someone involved with green politics, an advocate for public transport, and avid cyclist, planning provided the opportunity for him to contribute to a more sustainable future.

Debbie Lehtonen is a town planner. She has worked with a private planning and surveying consultancy in Brisbane, and is currently studying a Bachelor of Built Environment (Urban and Regional Planning) at Queensland University of Technology. A former cleaning contractor and keen cyclist/triathlete, she aspires to forge a career in strategic land use planning and venture into property development. She has a special interest in creating beautiful places and partnered with a Brisbane-based carpenter, spent a number of years building and renovating residential properties. Debbie believes innovation and foresight in transport planning is vital to help balance the future needs of an escalating population with the environment’s delicate equilibrium.

Robyn Keast is a Senior Lecturer in the School of Management and Research Director for the Airport Metropolis Project at Queensland University of Technology. She has published widely in the
areas of networks and collaborative arrangements, governance and public administration, including network performance measurement. Her current research portfolio is focused on airport infrastructure governance and regional social development.

Douglas Baker is Professor of Urban and Regional Planning in the School of Urban Development at the Queensland University of Technology, Australia. He is the leading investigator of an international research team that is evaluating the Airport Metropolis concept - a four year international project analyzing the changing role of the modern airport in major cities world-wide. Dr Baker’s areas of expertise include land use planning, performance based measurement, and airport management.

Kerry Brown is the Mulpha Chair in Tourism Asset Management and Professor, School of Tourism and Hospitality Management, Southern Cross University, Australia. She has edited and co-authored books on infrastructure management, public management and public-private-community relations and published widely in these areas. She is an Executive Board Member of the International Society for Public Management, and Founding Fellow and Executive Board Member of the International Society for Engineering Asset Management.

Arun Kumar has over 40 years experience as a civil engineer in construction, consulting, research and academia. His areas of expertise include: infrastructure management, project management, roads and civil infrastructure, institutional strengthening and capacity building. He is Professor of Infrastructure Management at the Queensland University of Technology and Professor Emeritus, RMIT University, Melbourne, Australia. He has written over 160 papers in national and international journals and conferences; has been an invited speaker in several countries; has been on the international committees and has chaired at the international conferences. His international experience includes the countries of: Australia, China, India, USA, and Southeast Asia. Professor Kumar is a consultant to the World Bank on project management, infrastructure management Institutional strengthening.

Sujeeva Setunge is an Associate Professor and Discipline Head in Environmental Engineering at the School of Civil Environmental and Chemical Engineering at RMIT University in Melbourne. Prior to joining RMIT Sujeeva has worked as a lecturer and senior lecturer at Monash University. Her research interests are in the areas of infrastructure management, risk analysis, concrete structures and materials, reliability based methods in deterioration prediction and innovative and sustainable construction materials.

Phil Heywood is a Fellow and former President of the Queensland Division of the PIA, who has worked and taught in regional and local planning in Australia, Britain, West Africa and South East Asia. He has been head of planning schools in UK and Australia, and is currently Associate Professor of Urban & Regional Planning in QUT. He is the author of Planning & Human Need (1974) on the social role of planning. The Emerging Social Metropolis (1997) on the future of metropolitan regional planning, and other publications on regional and community planning. He has been a member of the Academic and Professional Advisory group for the Brisbane Plan (1990 and SEQ Regional Plan (2005) and is involved with many community organizations concerned with social justice and community housing. He is currently teaching, researching and writing on collaborative community planning, the planning and governance of metropolitan and provincial regions, and planning for truly independent societies.
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**Motoo Kusakabe** is the founder and director of Open City Foundation in London to promote ICT policy reform and entrepreneurship in developing world. He also serves as a visiting professor of Ritsumeikan Asia Pacific University, Oita, Japan teaching development economics. He serves as the executive Committee member and a Director of the Development Gateway Foundation and Senior Advisor to the Global Alliance of ICT for Development, the United Nations. Before establishing the Open City Foundation, he served as the senior counsellor to the President of the European Bank for Reconstruction and the Vice-President of the World Bank, for Resource Mobilization and Co-financing Vice-Presidency. Mr. Kusakabe was responsible for mobilizing resources for the Bank’s operations in poor countries and for enhancing donor relationship. He has been instrumental in drumming up support for the ICT and Development, and community-driven initiatives and promoted partnership with NGOs and foundations. He has a B.A and M.A. in Mathematics at the University of Tokyo, and M.Phil in economics at Yale University. He is a Senior Enterprise Fellow of the University of Essex, School of Entrepreneurship and Business, and was a visiting scholar, Stanford University, Digital Vision Fellowship Programme (2003).

**Suharto Teriman** is currently enrolled as a full time Doctoral research student at the Queensland University of Technology. He holds a Bachelor of Town and Country Planning (Honours) degree from the University of Manchester, UK and Master of Science in GIS and Remote Sensing from Universiti Putra, Malaysia. Prior to enrolling at QUT, Mr Teriman has served in both planning practice (with the Malaysia Government) and in academic field (with a Malaysian public university). Mr Teriman’s interests are in urban development and management, with a focus on urban sustainability. His doctoral research focuses on developing a sustainability assessment framework for urban residential developments.

**Sang Ho Lee** is a senior academic at the Department of Urban Planning and Engineering, Hanbat National University, Daejeon, the republic of Korea. His research focuses on ubiquitous city planning and its application; forecasting the futuristic society, planning the ubiquitous services and the ubiquitous computing mobile/built environment, designing the ubiquitous spatial structure and land-use, and management planning. He has a patent for “experimental urban planning and simulation system as ubiquitous spatial decision support system”.

**Johnny K. W. Wong** is a Senior Lecturer in Quantity Surveying at the School of Urban Development, Queensland University of Technology. He has published extensively on building technology and construction project management, with special emphasis on intelligent building, cultures in construction and infrastructure project procurement. His research on intelligent building provides a way that allows developers or design teams to estimate the building control system products using the index to manifest their intelligence superiority. It also provides a benchmark to measure the degree of intelligence of one control system candidate against another. Also, his research on construction culture focuses on investigating the multicultural project leadership styles in intercultural workplaces and their effects on the performance of the construction projects.

**Justine Lacey** has a background in moral philosophy and applied ethics and has recently completed her PhD on the ethics of water management in Australia at The University of Queensland. She is particularly interested in how we construct and negotiate our values in the context of water governance and management arrangements, and in identifying the ethical frameworks underpinning these arrangements.
**Eddo Coiacetto** is a senior lecturer in urban and environmental planning at The Griffith School of Environment at Griffith University and also a member of the Urban Research Program at the same University. He spent several years in professional practice. His broad teaching and research aim is achieving more effective planning, particularly focusing on the challenges of implementing planning in market-based economies. His teaching interests and methods cover project-based courses in property development and planning; lecture and workshop-based courses in planning practice and law; as well as practicum-based courses in professional practice and development. His main research areas are real estate development, planning and sustainability; public land development; urbanisation; and the effects and effectiveness of planning practice. Within this, his principal focus is on how real estate development industries operate; what this means for urban development, planning and policy; and on how planning/policy should respond. His other key interest is in planning education.

**Kuniko Shibata** is a Visiting Research Fellow of the Department of Geography and Environment at the London School of Economics and Political Science (LSE) in the UK and Global Centre of Excellence (COE) Research Fellow of Urban Research Plaza, Osaka City University in Japan. She holds a PhD in Regional Planning on the history of the public interest in Japanese planning development from LSE. Her academic research has focused on the relationships between planning, politics, and the economy, including an analysis of regulatory framework, the ideologies and roles of planning institutions in relations to the modern state development. She has been currently working on a three-year research project ‘Sustainability, Cities and Gender: Comparative Studies of Gender and Urban Regeneration in the European Union’ for the period between 2008 and 2011.

**Paul Sanders** has been an academic for 11 years and practicing architect for 20 years. Paul graduated from Kingston Polytechnic in the UK in 1986, worked in London for two years before immigrating to South Africa, where he worked for a leading architectural firm before opening his own practice in 1996. During his professional career he was responsible for a number of major buildings as well as an involvement in urban design and housing issues. Paul began his academic career at the University of Natal in 1998 and following a period as visiting lecturer to QUT Brisbane in 2001, joined the staff on an ongoing basis shortly after. He has published in international journals in the fields of architecture and urban design, and was awarded a MArch by research in 2003. He is currently a PhD candidate in the field of urbanism, researching the correlation of historical urban form analysis in the generation of models of urban form. Since 2006, Paul has been the co-ordinator for the architecture courses at QUT.

**Azime Tezer** serves as an Associate Professor at the Istanbul Technical University (ITU), Urban and Regional Planning Department. Her research focuses on ecological urban planning policies, land use and transportation interaction and disaster mitigation strategies for urban planning process. Her focal points are the following topics: potentials of biosphere reserves for biodiversity management models in urban areas, tools and techniques for urban disaster mitigation efforts for urban planners and local officials, integration of ecosystem services with spatial planning, and eco-sensitive watershed management modeling. She spent seven months at the University of New South Wales, School of Civil Engineering, Department of Transportation for her PhD studies in 1993, and two years at the University of Massachusetts Amherst, Ecological Cities Projects as a visiting scholar of UNESCO’s Keizo Obuchi research fellowship between 2003-2005.
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Serkan Sinmaz is an urban planner and designer. He graduated from the Urban Planning Department of Yildiz Technical University, Turkey (YTU) with second degree in 2005. After, he started to work for Istanbul Metropolitan Planning Office at Istanbul Metropolitan Municipality from 2005 until 2008 in the preparation of Environmental Master Plan work. At the same time, he graduated from urban design master program of YTU in 2008. While he was pursuing his master program, he started to work as a research assistant at the end of the 2007. He is a PhD candidate at YTU on urban planning program. His research interests are urban design, communication in urban spaces and urban public spaces.

Care Olgun Caliskan graduated as an urban and regional planner from Istanbul Technical University (ITU) in 2005. After, he started to work for Istanbul Metropolitan Planning Office (IMP) at the same time, he pursued Regional Planning master program of ITU-Urban and Regional Planning Department and graduated in 2008. His master thesis was related with the potential of Kars as a growth pole among the other cities of the north-eastern region of Turkey. He is a PhD candidate at ITU in the Regional Planning Program. His research interests are urban planning, rural development, regional planning, regional growth theories and urban transformation.

Mehmet Murat Calik is an urban planner and designer and graduated from urban and regional planning department of Istanbul Technical University (ITU) in 1997. After the graduation, he founded the Development Planning Limited Company in 1998 together with two colleagues. They conduct different kind of planning works for municipalities and other governmental institutions. He was elected as a representative of private planning offices on the Management Board of Chambers of Urban Planners, Istanbul Branch. His expertise is on urban design and urban transportation issues.

Virendra Pathak has Ph.D. in the area of Geo-informatics from Indian Institute of Technology, Kanpur, India. He has diverse academic background with M.E. in Remote Sensing and Photogrammetry, and B.E. in Civil Engineering. He has over fifteen years of experience in academia and currently associated with the School of Urban Development, Queensland University of Technology, Brisbane, Australia. He is involved in teaching spatial science related subjects and his research interests are in the area of Remote Sensing, Satellite Image Processing, Land-use and land-cover mapping, Neural networks, Segmentation, Wavelets and Applications of geospatial technologies (Remote Sensing, GIS, GPS and LiDAR) for urban development.

Robert Webb is an academic lecturer and program coordinator of the Spatial Science discipline within the School of Urban Development, Faculty of Built Environment and Engineering, Queensland University of Technology, Brisbane, Australia. Roberts’ educational qualifications include Bachelor of Applied Science in Surveying 1990, Diploma of Electronics 1992, and Master of Applied Science by Research 2005. He actively teaches in the areas of global positioning systems, hydrographic and geodetic surveying, introductory geographic information systems, photogrammetry and geospatial mapping. He is involved in broad range of activities including linkages with the surveying/spatial professions, university committee work, student recruitment activities, workplace health and safety responsibilities and academic coordination and administration.

Michael Regan is Associate Professor of Infrastructure at the Mirvac School of Sustainable Development, Gold Coast, Australia where he heads the Infrastructure Management graduate program. He
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was formerly Director of the Australian Centre for Public Infrastructure at the University of Melbourne and program director for a number of international project procurement programs that Bond University delivers with the Commonwealth Secretariat and Asian Development Bank Institute. His research specialisation and writing includes project procurement, public private partnerships and infrastructure economics.

**Bhishna Bajracharya** is an Associate Professor of Urban Planning at the Mirvac School of Sustainable Development, Bond University in Gold Coast, Australia. Prior to joining Bond, he taught urban planning at the Queensland University of Technology (QUT) for twelve years. While at QUT, he provided academic leadership as course coordinator for the undergraduate planning program for four years. He was a post doctoral fellow at the Research School of Social Sciences in Australian National University from 1994 to 1996. Bhishna has also worked as an architect in Nepal, where he was involved in the design and development of a number of educational buildings under World Bank funding. He has carried out research on topics such as transit oriented development, master planned communities and knowledge-based urban development. Bhishna, together with academics from QUT’s Creative Industry faculty, recently received an ARC Linkage grant on the use of community narratives and new media in urban planning. Another project he is working on is looking into local government’s roles in disaster management in Queensland.

**Benson Au-Yeung** received his Bachelor Degree in Environmental Planning at Griffith University and Master Degree in Environmental management as University of Queensland. Benson is currently studying his Research Master at Queensland University of Technology. Benson also has more than 5 years of experience in the field of urban and infrastructure planning. Benson is currently employed by Brisbane City Council as the Senior Urban Analyst who responsible for the development and maintenance of the Brisbane Urban Growth Model.

**Chean-Piau Lau** has a background in the field of strategic and infrastructure planning. He is currently the Senior Program Officer heading the Strategic Research and Planning Team within City Planning Branch in the Brisbane City Council. Before he joined Brisbane City Council, Chean-Piau Lau was the project manager who tasked for the preparation of the Priority Infrastructure Plan for Gold Coast City Council. While he was working in Gold Coast City Council, Lau managed a number of urban research projects and surveys to support the planning of Gold Coast City.

**Severine Mayere** is a lecturer in urban and regional planning in the Faculty of Built Environment and Engineering at Queensland University of Technology. Dr Mayere graduated from Florida State University in 2007 with a Ph.D in urban and regional planning. Her dissertation explored the role of local growth coalitions in shaping growth management programs and the role of the coalitions in influencing the effectiveness of those programs in six U.S states. Dr Mayere’s current research interests focus on land use planning and urban politics, but also on regional planning and growth management, and comparative planning approaches.

**Adrian Bridge** is a Chartered Surveyor, having gained a bachelor and masters degree from UK universities. He has worked as a Commercial Manager for international construction companies and as a consultant Quantity Surveyor and Project Manager in London. In his current role as Senior Lecturer...
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in Construction Economics at QUT, Dr Bridge completed his PhD on the application of economic theory to the procurement of facility services and has published widely. More recently, Dr Bridge had a leading role in a successful Australian Research Council grant concerning the procurement of major infrastructure.

Robert Lee Kong Tiong is an Associate Professor in School of Civil & Environmental Engineering, as well as Deputy Director of Centre for Infrastructure Systems at Nanyang Technological University, Singapore. He is the Program Director of the MSc Programme in International Construction Management since its inception in 1991. Dr Tiong graduated in 1981 from University of Glasgow with First Class Honours in Civil Engineering, with specialisation in management. He obtained his M.Eng on Construction Engineering & Management, from University of California, Berkeley in 1987 and his PhD in Civil Engineering in 1994 from NTU. He is Council member and the Research Chair of the Institution of Facilities Management, Singapore. His research and consulting interests focus on integrated risk analysis and management, life cycle analysis and management, project procurement and management for infrastructure projects.

Wang Shou Qing is a Professor at the Dept of Construction Management, School of Civil Engineering, Tsinghua University, Beijing, China and Deputy Director, Institute of International Engineering Project Management, Tsinghua University, being involved in teaching, research and consultancy mainly on Public-Private Partnership (PPP) and Project Management. He is sitting in some academic and professional bodies, e.g. Chairman of the China National Collaboration Network (104 universities) for M.Eng.(PM) Education, Board Member of the Project Management Institute’s Global Accreditation Center for Project Management, Adjunct Professor of the Queensland University of Technology, Vice Chairman of the China Project Management Research Committee, Advisor of the China International Contractors Association and Advisor of the China Construction Industry Association’s Engineering Project Management Committee, Editorial Board Advisor/Member of the Construction Management and Economics, Management Decision, Journal of Financial Management of Property and Construction, International Journal of Construction Management.

Bambang Trigunarsyah is Associate Professor and Course Leader for Project Management, School of Urban Development, Queensland University of Technology, Australia. He joined QUT in January 2007 from the University of Indonesia. Before joining the University of Indonesia, Bambang has worked for Kondur Petroleum S.A. (previously called Hudbay Oil Malacca Strait Ltd.), a Production Sharing Contractor for the Indonesian State Own Oil Company, for 10 years. His last position with the company was as a Senior Project Engineer. Bambang has co-authored two books and over sixty technical papers in the areas of construction project management and road construction on soft soil.

Martin Skitmore is currently a Professor in the School of Construction Management, Queensland University of Technology having previously held a personal chair in Quantity Surveying and Construction Economics at the University of Salford in the United Kingdom. He is a former editor-in-chief of the Journal of Construction Innovation and a member of several international journal editorial boards. His main research interest is in the analysis and modelling of construction contract bids and he has authored a book “Contract Bidding in Construction” (Longman 1989) as well as coauthoring two other books on cost modelling and writing research reports. He has also authored/coauthored over 130 refereed journal
papers on construction management and economics in addition to many refereed conference papers. Prof. Skitmore has supervised 14 PhD students to completion and is currently principal supervisor to 6 PhD students on a range of construction related topics.

**Jung Hoon Han** is a research fellow at Griffith University, Australia. His research interest focuses on the spatial and temporal changes in urban forms, networks and systems; in particular the dynamic changes occurring in response to constraints and opportunities within a spatial context. While completing his PhD in the area of urban design and regional planning at the University of Queensland, Australia he worked for the Australian Housing and Urban Research Institute (AHURI), one of the leading national research centres from 2004 to 2008. His researches were awarded in international and Australian research organisation, including the best written journal paper of the year (2004) by the Journal of Housing Studies Review and the best conference paper (2008) by Australia and New Zealand Regional Science International (ANZRSI). Dr Han is currently a member of Regional Science International (RSI) and an Associate Member of Australian Property Institution (AAPI).