Draft AUM2022 programme (v02j)

This is a hybrid symposium; online presentations are noted 'online' after paper number.

Day	Time	Sessions	Presentation titles
29.06.22	08.30	AUM2022 venue opens with coffee and pastries	
	09.15	**Welcome from the convenors** Ying Jin, Jamil Nur, Li Wan and Steve Denman (University of Cambridge)	Welcome message
		Session 1: Retrospect and the start of prospect Chair: Michael Batty (University College London) Host: Ying Jin (University of Cambridge)	
	09.30	Marcial Echenique (University of Cambridge)	Infrastructure plan for Chile 2020-2050 (Paper 1.1)
		Michael Wegener (Spiekermann and Wegener Urban Research, Dortmund)	No-growth urban development (Paper 1.2)
	11.00	Coffee/tea break	
		Session 2: The world's metropolitan areas Chair: Jamil Nur (University of Cambridge) Host: Shanshan Xie (University of Cambridge)	
	11.30	Remy Sietchiping, Rafael Forero and Maria Tellez Soler (UN Habitat Metropolitan Studies team)	Progress with the world's metropolitan areas: a global overview (Paper 2.1; video message)
		Ola Uduku, University of Liverpool	Urban development in Africa [tbc] (Paper 2.2; video message)

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[1] Note this is to on the north side of the grounds of Robinson College – use '**4a Adams Road, Cambridge**' **in your online navigation search** so that you reach the venue directly; there is no need to go through the main entrance of the College.

Day	Time	Sessions	Presentation titles
		Ying Jin (University of Cambridge)	How many applied urban models are there for the world's cities and city regions? (Paper 2.3)
	12.30	Lunch	

Session 3: Understanding and modelling urban systems

Chair: Adam Dennett (University College London)

Host: Yue Ying (University of Cambridge)

Day	Time	Sessions	Presentation titles
	13.30	Michael Batty (University College London)	The linear city: Illustrating the logic of spatial equilibrium (Paper 3.1)
	14.30	Eric J. Miller (University of Toronto)	Towards next-generation integrated urban systems modelling (Paper 3.2)
	15.30	Coffee/tea break	

Session 4: New models for new trends
Chair: Robin Morphet (University College London)

Host: Ying Jin (University of Cambridge)

Day	Time	Sessions	Presentation titles
	16.00	Ian Williams (Ian Williams Services, UK)	Do we need van models? (Paper 4.1)
	17.00	Matthew E Kahn (University of Southern California)	Going remote: How the flexible work economy can improve our lives and our cities (Paper 4.2; online)
	18.30	Symposium reception	

Day	Time	Sessions	Presentation titles
30.06.22	08.30	AUM2022 venue opens with coffee and pastries	
		Session 5: An e-bike city? Chair: Eric Miller (University of Toronto) Host: Steve Denman (University of Cambridge)	
	09.00	Kay Axhausen (ETH Zurich)	Dilemma of transport planning and why an e-bike city might be a new starting point (Paper 5.1; online)
		Session 6: Advances in LUTI modelling Chair: Michael Batty (University College London) Host: Yaotian Ma (University of Cambridge)	
	10.00	Joseph Ferreira, Jr (MIT)	Next steps for next-generation - land use and transportation interaction (LUTI) models (Paper 6.1)
	11.00	Coffee/tea break	
		Session 7: New data, new methods, new fields (1) Chair: Ian Williams (Ian Williams Services, UK) Host: Louise Luo (University of Cambridge)	
	11.30	Paul Waddell (University of California Berkeley)	[tbc] (Paper 7.1)

Day	Time	Sessions	Presentation titles
		Session 8: New data, new methods, new fields (2) Chair: Steve Denman Host: Zhou Fang (University of Cambridge)	
	12.30	Fernando Benitez-Paez (The Alan Turing Institute), Hadrien Salat (The Alan Turing Institute), Dustin Carlino (The Alan Turing Institute), Daniel Arribas-Bel (The Alan Turing Institute and The University of Liverpool), Mark Birkin (The Alan Turing Institute and The University of Leeds)	Towards multi-level urban modelling: Spatially enriched synthetic micro data, with a focus on the population and its social interactions (Paper 8.1)
		Maider Llaguno-Munitxa (UCLouvain), Martin Edwards (UCLouvain), Stephane Grade (CECOTEPE), Marie Vander Meulen (UCLouvain), Clement Letesson (Independent Consultant), Elena Agudo-Sierra (UCLouvain), Sergio Altomonte (UCLouvain), Emilie Lacroix (UCLouvain), Biayna Bogosian (FIU), Kris Mun (ANFA), Eduardo Macagno (UCSD)	360° image and video urban scene immersions to evaluate the role of urban green infrastructure in stress level reduction (Paper 8.2; online)
		Juste Raimbault (LASTIG, Univ Gustave Eiffel, IGN-ENSG, Saint-Mande´, France; CASA, UCL, London, UK; UPS CNRS 3611 ISC-PIF, Paris, France; UMR CNRS 8504 Ge´ographie-cite´s, Paris, France) and Julien Perret (LASTIG, Univ Gustave Eiffel, IGN-ENSG, Saint-Mande´, France)	Quantifying the co-evolution of economic activities locations with geo-historical data: Paris, 19th century (Paper 8.3)
	13.30	Lunch	
		Session 9: Advances in agent based modelling Chair: David Simmonds (David Simmonds Consultancy, UK) Host: tbc	
	14.30	Aruna Sivakumar (Imperial College)	Challenges in developing an agent- and activity-based microsimulation model of mobility and energy demands: Experiences from the IDLES programme at Imperial College London (Paper 9.1)

Day	Time	Sessions	Presentation titles
		Yuan Liao, Frances Sprei, Çaglar Tozluoglu, Sonia Yeh (Department of Space, Earth and Environment, Division of Physical Resource Theory, Chalmers University of Technology, Gothenburg)	On the impact of EV charging behaviours: Spatiotemporal patterns of demand from user perspective using agent-based modelling (Paper 9.2)
		Session 10: Modelling of activities Chair: Robert Cervero (University of California Berkeley) Host: Jamil Nur (University of Cambridge)	
	15.30	Adam Dennett (University College London), Gavin Chait (OpenLocal) and Christina Botros (CACI Ltd)	The Health of the High Street revisited – A new Urban Analytics Perspective (Paper 10.1)
		[speaker tbc]	[tbc]
	16.30	Coffee/tea break	
		Session 11: Advances in model integration Chair: Rolf Moeckel (Technical University of Munich) Host: Shanshan Xie (University of Cambridge)	
	17.00	Nael Alsaleh and Bilal Farooq (Toronto Metropolitan University)	Sustainability analysis of shared on-demand transit with a focus on equity, diversity, and inclusion (Paper 11.1)
		Fulvio D Lopane, Tianqu Shao, Eleni Kalantzi, Michael Batty (University College London)	The HARMONY Strategic Simulator: urban and transport modelling to inform policy and decision making (Paper 11.2)
		Richard J Hewitt, Charlotte Astier, Juan Balea-Aneiros and Eduardo Caramés (Complutense University of Madrid)	Integrated modelling for sustainability transitions in cities: progress and challenges from the INTRANCES project (Paper 11.3)

Day	Time	Sessions	Presentation titles
		Juste Raimbault (LASTIG, Univ Gustave Eiffel, IGN-ENSG, Saint-Mande´, France; CASA, UCL, London, UK; UPS CNRS 3611 ISC-PIF, Paris, France; UMR CNRS 8504 Ge´ographie-cite´s, Paris, France) and Micael Batty (University College London)	Coupling heterogeneous urban models (Paper 11.4)
		Session 12: Modelling the long term: theory and practice Chair: Michael Batty (University College London) Host: Yue Ying (University of Cambridge)	
	18.00	Francisco Martínez, Ariel Castillo, Pedro Donoso, Leonel Gutiérrez and Ricardo de la Paz Guala (Universidad de Chile, FCFM, Santiago, Chile)	VLT-LUT: Modeling the very long term land use and transportation evolution of cities (Paper 12.1; online)
		John Douglas Hunt (University of Calgary), JE Abraham (HBA Specto Inc), Abdelrahman Muhsen (KAPSARC, Saudi Arabia), G Fuenmayor (HBA Specto Inc)	Forecasting Household Energy Demand in Riyadh Using PECAS (Paper 12.2; online)
	19.00	Symposium Dinner (buffet format to facilitate chatter)	
01.07.22	08.30	AUM2022 venue opens with coffee and pastries	
		Session 13: Cities in East Asia Chair: Kazuki Nakamura (Meijo University, Nagoya) Host: Louise Luo (University of Cambridge)	
	09.00	Haixiao Pan, Miao Hu, Tao Chen (Department of Urban Planning, Tongji University, Shanghai)	Exploring jobs-housing balance along metro lines: A case study in Shanghai (Paper 13.1; online)
		Junyi Zhang (University of Hiroshima, Hiroshima)	Integrated transport-energy modelling (Paper 13.2; online)

Day	Time	Sessions	Presentation titles
		Runsen Zhang (University of Hiroshima, Hiroshima)	Long-term pathways to deep decarbonization of the transport sector in the post-COVID world (Paper 13.3; online)
		Jing Kang (University of Hiroshima, Hiroshima)	Spatial analysis of EV users' demands for public infrastructure in the context of COVID-19, based on multi-source big data integration (Paper 13.4; online)
		Session 14: Upcoming challenges in transport and land use planning Chair: Chen Zhong (University College London) Host: Louise Luo (University of Cambridge)	
	10.00	Nick Malleson, Alison Heppenstall and Ed Manley (University of Leeds)	Challenges for ABM in Applied Urban Modelling (Paper 14.1; online)
		Rolf Moeckel (Technical University Munich), Corin Staves(University of Cambridge), James Woodcock(University of Cambridge), Qin Zhang(Technical University of Munich)	The next frontier: Modelling health impacts with integrated land use/transport models (Paper 14.2)
	11.00	Coffee/tea break	
		Session 15: The world going digital Chair: Kaveh Jahanshahi (UK Office for National Statistics – Data Science Campus, Newport, Wales) Host: Yue Ying (University of Cambridge)	
	11.30	Claire Daniel and Chris Pettit (University of New South Wales, Sydney)	Digital planning survey of planners across five 'anglosphere' countries: Australia, New Zealand, the USA, Canada and the UK (Paper 15.1; online)

Day	Time	Sessions	Presentation titles
		Wei Yang (Co-chair of Digital Task Force for Planning, Chair of Wei Yang & Partners, Immediate Past President of the Royal Town Planning Institute) and Michael Batty (Co-chair of Digital Task Force for Planning, and University College London)	Development of the Digital Planning Task Force in the UK (Paper 15.2)
		Session 16: Upcoming challenges in local planning Chair: Marcial Echenique (University of Cambridge) Host: Yaotian Ma (University of Cambridge)	
	12.30	Alistair Brereton-Halls and David Simmonds (David Simmonds Consultancy, UK)	Alternative approaches to appraising the benefits of land use and transport interventions (Paper 16.1)
		[tbc]	[tbc]
	13.30	Lunch	
		Session 17: Urban analytics and modelling Chair: Joseph Ferreira Jr., (MIT) Host: Shanshan Xie (University of Cambridge)	
	14.30	Kaveh Jahanshahi et al (UK Office of National Statistics Data Science Campus, Newport, Wales)	[Urban data analysis at the ONS] (Paper 17.1)
		Qili Gao (UCL), Chen Zhong (UCL), Yang Yue Shenzhen University)	SIMETRI: socio-spatial inequalities and human mobility in megacities (Paper 17.2)
		Session 18: Frontiers in infrastructure modelling Chair: tbc Host: tbc (University of Cambridge)	
	15.30	Bryant ML Lai (Transports Publics Fribourgeois SA, Givisiez, Switzerland), Claudio Martani (Purdue University), Orlando M Roman Garcia (ETH Zürich), Bryan T Adey (ETH Zürich)	Evaluating the use of responsive train stations gateways to minimize the risk of overcrowded platforms: the example of the London Bridge Station (Paper 18.1; online)

Day	Time	Sessions	Presentation titles
		Claudio Martani (Purdue University), Jonas Imfeld (ETH Zurich), Hazar N. Dib (Purdue University), Bryan T Adey (ETH Zurich)	Initial exploration of the stakeholder advantages of using robotic inspections and cleaning of water distribution pipes in urban areas (Paper 18.2; hybrid co-presentation)
		[tbc]	
	16.30	Coffee/tea break	
		Session 19: Accessible and affordable cities Chair: Geoffrey Hewings (University of Illinois Urbana- Champaign) Host: Ying Jin (University of Cambridge)	
	17.00	Rounaq Basu (MIT)	Planning sustainable cities: Coordinating accessibility improvements with housing policies (Paper 19.1 online)
		Michael Reilly (Michael Reilly Research and Consulting)	Forecasting Bay Area Housing Affordability (Paper 19.2; online)
	18.00	Formal symposium close with drinks in the Robinson College gardens	

Note: We plan to hold the usual **AUM Round Table** online when colleagues are back from their summer holidays as an online session – this will put all participants on an equal, virtual footing. We hope our forced practice of online interactions in the past two years will make this online Round Table a productive session. We will announce the date of this Round Table session, as well as the date for AUM2024, at the symposium.