	Day ONE: 4 Nov 2022 (Fri) Venue A, University of Macau			
	<b>Opening Ceremony</b> <u>(Link)</u>			
08:45 - 9:00	Welcome Remarks by Prof. Yonghua SONG Rector of the University of Macau and Director of State Key Laboratory for Internet of Things for Smart City			
	Keynote Session I (Link)			
9:00 - 09:45	Keynote Speech #1: Grid Modernisation for Smart and Carbon-Neutral Cities			
	Prof. Chi Yung CHUNG CAE Fellow, IEEE Fellow, EIC Fellow IET Fellow, HKIE Fellow Chair Professor, The Hong Kong Polytechnic University			
	Session Chair by Prof. Shaodan MA			
09:45 - 09:55	Break			
09:55 - 10:40	Keynote Speech #2: From Information Networking to Intelligence Networking			
	Prof. Fei Richard YU Executive Officer, IEEE Fellow, CAE Fellow, EIC Fellow Guangdong Artificial Intelligence and Digital Economy Laboratory (Shenzhen)			
	Session Chair by Prof. Cheng-Zhong XU			
10:40 - 10:50	Break			
	<u>Industrial Session</u> Chair: Prof. Hannah ZHOU <u>(Link)</u>			
10:50 - 11:20	Digital Technology Supports the Smart Grid Construction in Guangdong-Hong Kong-Macao Greater Bay Area Mr. Hugo YUAN Huawei Senior Solution Manager			
11:20 - 11:50	CEM Advanced Metering Infrastructure (AMI) Development Mr. Charles LEONG Information System Department Technical Advisor Secretary of Innovation and Technology Committee, Companhia de Electricidade de Macau - CEM, S.A.			

11:50 - 12:20	A More Liveable City – The Smart City Practice as a Chinese Infrastructure Provider Dr. Yang QIAO Deputy Director, Zhen Hwa Harbour Construction Co., Ltd.			
12:20 - 14:00	Break			
	Urban Public Safety and DisasterPreventionSession Chair: Prof. Huabin SHI and Prof. Dongxiao WANG Venue A, University of Macau (Link)	Sensing and Communications Session Chair: Prof. Fen HOU and Prof. Lin CAI Venue B, University of Macau (Link)	Open Research Project Highlight Session Session Chair: Prof. Wanhuan ZHOU Venue C, University of Macau (Link)	
14:00 – 14:25	Fast and Maneuverable Soft Robots Driven by Underwater Combustion Prof. Zhiguo HE Zhejiang University	Reconfigurable Holographic Surfaces: A New Paradigm to Holographic Communications for 6G Prof. Lingyang SONG Peking University	Practice of Machine Learning in Constitutive Modelling of Soils Prof. Zhenyu YIN The Hong Kong Polytechnic University	
14:25 – 14:50	Case Study of Oceanic Response to Tropical Cyclone Prof. Chunhua QIU Sun Yat-Sen University	Environmental Sustainability and Intelligence as well as General Green Technologies Prof. Jinsong WU University of Chile	Development and Applications of Triboelectric Sensors in the Industrial Technology Dr. Tinghai CHENG Beijing Institute of Nanoenergy and Nanosystem, Chinese Academy of Sciences	
14:50 - 15:15	Marine Observation Strategy for the Tropical Coastal Cities 'SDG 14 Prof. Dongxiao WANG Sun Yat-Sen University	Joint Vehicular Localization and Reflective Mapping Based on Team Channel-SLAM Prof. Zhaoming LU Beijing University of Post and Telecommunications	Challenges of Digitizing Power Grid Operation Business and a Brief Discussion on the Bottleneck of the Digital Platform's Data Lake Prof. Junbo ZHANG South China University of Technology	
15:15 – 15:40	Successful Implementations of a Real- time and Intelligent Early Warning System for Loess Landslides on the Heifangtai Terrace Prof. Dalei PENG Chengdu University of Technology	Green Federated Learning: A Wireless Power Transfer Approach Prof. Yuan WU University of Macau	Federated Transfer Learning for Domain-Adaptive Indoor Wireless Sensing Prof. Suzhi BI Shenzhen University	

15:40 - 16:05	Adaptive Reservoir Management under Climate Change in the Lancang- Mekong River Basin Prof. Qiuhong TANG Institute of Geographic Sciences and Natural Resources Research, Chinese		Joint MCS Adaptation and RB Allocation in Cellular Networks Based on Deep Reinforcement Learning with Stable Matching Prof. Liqun FU
	Academy of Sciences		Xiamen University
16:05 - 16:15	Break		
	<u>Smart Energy</u> Session Chair: Prof. Ningyi DAI and Dr. Ying HUANG Venue A, University of Macau (Link)	<u>AI and Big Data</u> Session Chair: Prof. Jiantao ZHOU and Prof. Cong WANG Venue B, University of Macau (Link)	
16:15 – 16:40	Optimization of Smart Energy Communities Prof. Pierluigi SIANO University of Salerno	Sequential Location Recommendation and Beyond Prof. Defu LIAN University of Science and Technology of China	
16:40 - 17:05	Exploration and Practice of Efficient Operation of Urban Intergrated Energy System Prof. Wei GU Southeast University	Optimization from Structured Samples —— An Effective Approach for Data- driven Optimization Prof. Wei CHEN Microsoft Research Asia (MSRA)	
17:05 – 17:30	Reliability and Resilience Evaluation of Integrated Energy Systems Prof. Yi DING Zhejiang University	Software Systems for Heterogeneous Hardware and Advanced Data Processing Platforms Prof. Philippe Cudré-Mauroux University of Fribourg	
17:30 - 17:55	Transition Pathway Towards Carbon Neutral Electrical Power Systems in China: Quantitative Analyses Based on High-precision Models Prof. Xinyu CHEN	Spatio-Temporal Urban Data: Sensing, Analytics, Ad Applications Prof. Longbiao CHEN Xiamen University	

	Huazhong University of Science and Technology	
17:55 – 18:20	Talk Title: Research on Emerging Threats and Protection Techniques of Energy IoT Cyber-physical System Prof. Keng Weng LAO University of Macau	

		y TWO: 5 Nov 2022 (Sat) uue A, University of Macau	
		<u>Keynote Session II</u> nair: Prof. Zhiguo GONG nue: A, University of Macau (Link)	
9:00 - 09:45	Keynote Speech #3: Data Science for Deep Learning   Prof. Lei CHEN   IEEE Fellow   Chair Professor, Hong Kong University of Science and Technology		
09:45 - 09:55	Tea Break		
	<u>Smart Energy</u> Session Chair: Prof. Hongcai ZHANG and Prof. Ying HUANG Venue A, University of Macau (Link)	Sensing and Communications Session Chair: Prof. Shaodan MA and Prof. Ying WANG Venue B, University of Macau (Link)	Intelligent Transportation Session Chair: Prof. Leong Hou U and Prof. Jingyuan WANG Venue C, University of Macau (Link)
09:55 - 10:20	New Concept and Research Development of Power Electronics Equipment for DC System Prof. Miao ZHU Shanghai Jiao Tong University	Self-Evolving and Transformative (SET) Protocol Architecture for 6G Prof. Lin CAI University of Victoria	Real-timeTrafficandRoadSurveillancewithParallelEdgeIntelligenceProf. Ruimin KEUniversity of Texas at El Paso
10:20 - 10:45	Flexibility Aggregation and Dispatch of Large-Scale Distributed Energy Resources Prof. Zechun HU Tsinghua University	Reconfigurable Intelligent and Holographic Surfaces for Wireless Communications – On Modeling the Mutual Coupling Prof. Marco Di Renzo Paris-Saclay University Paris	Decoupling Causal Learning Method and Applications Prof. Baochang ZHANG Beihang University
10:45 - 11:05	Decentralized/Distributed Optimal Operation of Power System with High Penetration of Renewables Prof. Qiuwei WU Tsinghua University (Shenzhen)	<b>Empowering Federated Learning in IoV</b> with Fuzzy Logic-based Client Selection Prof. Celimuge WU University of Electro-Communications	LibCity: An Open-source Platform for Urban Spatio-temporal Prediction Prof. Jingyuan WANG Beihang University

11:05 - 11:30 11:30 - 11:55	Coordinated Operation and Planning of Distributed Energy Resources (DERs) in Microgrids Prof. Yan XU Nanyang Technological University Resilient Operation of Urban Power Grid under New Energy Paradigm Prof. Yunhe HOU The University of Hong Kong	Wi-FiCanDoMore:TowardsUbiquitousWireless SensingDr. BeibeiWANGOriginWireless, Inc.OntheFundamentalTradeoffOntheFundamentalTradeoffofIntegratedSensingandCommunicationsUnderGaussianChannelsProf. Fan LIUSouthernUniversitySouthernUniversityofScienceChannelsScienceandTechnology	
12:00 - 13:00		Poster Session & Award Ceremony Chair: Prof. Liang GAO Venue A, University of Macau	
13:00 - 14:30	Break	<u>(Link)</u>	
15.00 - 14.50			
	<u>Urban Public Safety and Disaster</u> <u>Prevention</u> Session Chair: Prof. Wanhuan ZHOU and Prof. Xueyu GENG Venue A, University of Macau (Link)	<u>AI and Big Data</u> Session Chair: Prof. Jiantao ZHOU and Prof. Yi CAI Venue B, University of Macau <u>(Link)</u>	Intelligent Transportation Session Chair: Prof. Leong Hou U and Prof. Jingyuan WANG Venue C, University of Macau ( <u>Link</u> )
14:30 - 14:55	SMA-basedSeismic-ResistantStructures:From Smart Materials toresilient structuresProf. Songye ZHUThe Hong Kong Polytechnic University	Physical Anti-copying Semi-Robust Watermarking for QR Codes Prof. Li DONG Ningbo University	<i>Effective Network Embedding Methods</i> <i>on Large-scale Graphs</i> <b>Prof. Jieming SHI</b> <b>The Hong Kong Polytechnic University</b>
14:55 – 15:20	Accounting for Multiple Uncertainties in the Digital Twinning of Structural Dynamical Systems Based on Fast Bayesian Learning and Metamodeling Prof. Wangji YAN University of Macau	Self-supervised Recommender Systems Prof. Chao HUANG University of Hong Kong	Robust and Efficient Mobile Robot Localization Using LiDAR and Radar Prof. Huan YIN The Hong Kong University of Science and Technology

15:20 – 15:45	Susceptibility Analysis and Economic Vulnerability of Buildings to Glacier- related Debris Flows Prof. Xueyu GENG The University of Warwick	Towards Understanding COVID-19 Vaccination Stances Based on Interaction Graph: A Novel Dataset and its Applications Prof. Yupeng LI	Learning Realistic and Reactive Traffic Agents Prof. Meixin ZHU The Hong Kong University of Science and Technology (Guangzhou)
	The University of Warwerk	Hong Kong Baptist University	and reemology (Guangzhou)
15:45 - 16:10	The Impact of the Climate Change and Sea Level Rise on the UK Coasts Prof. Shunqi PAN Cardiff University	Recent Developments in Fair Allocations of Indivisible Chores Prof. Xiaowei WU University of Macau	The Real Impact and the User Perception of Sandwich Attacks in the DeFi Ecosystem Prof. Ye WANG University of Macau
16:10 – 16:35	Two-phase Modelling of Sediment Transport by Incompressible SPH Prof. Yan ZHOU University of Liverpool		
		Keynote Session III	
		hair: Prof. Shaodan MA	
Venue A, University of Macau (Link)			
16:35 - 17:20	Keynote Speech #4: Bruce Lee Inspired	Fluid Antenna Systems for 6G	
	Prof. Kai-Kit WONG IEEE Fellow, IET Fellow Chair Professor, University College Lor	ndon	