Workshop on Simulation and Modeling of Emerging Electronics (SMEE) 2018 Program

Eight year of the Area of Excellence (AoE) on Theory, Modeling, and Simulation of Emerging Electronics

Monday, October 15, 2018		
08:20 - 09:00 Registration		
Chairperson: Prof. Hong Guo, HKU&McGill		
08:40 - 09:00		Welcome Address and Photo taking **Jian Wang,** The University of Hong Kong
09:00 - 09:45	Keynote 1:	**Mark A. Reed**, Yale University
		Nanofluidic Ionic Devices
09:45 -10:10	Invited 1:	**Zhenyu Zhang,** University of Science and Technology of China
		Crossing over from three-dimensional nonequilibrium growth to two-dimensional van der Waals epitaxy
10:10 -10:35	AoE 1:	**Fei Liu,** The University of Hong Kong
		Cold Source Transistor: Energy Efficient Switching by Source Density of States Engineering
10:35 - 11:00 Tea Break		
Chairperson: Prof. Jiannong Wang Hong Kong University of Science and Technology		
11:00 - 11:45	Keynote 2:	**Thomas Szkopek**, McGill University
		Device Engineering with 2D Materials
11:45 -12:10	Invited 2:	**Lan Chen**, Institute of Microelectronics, Chinese Academy of Sciences
		The Modeling Technologies for Design and Manufacture Co-optimization
12:10 - 14:00 Lunch Break		
Chairperson: Prof. Jian Wang, HKU		
14:00 - 14:45	Keynote 3:	**Enge Wang**, Chinese Academy of Sciences
		Full quantum nature of interfacial water
14:45 - 15:10	Invited 3:	**Lvzhou Li**, Sun Yat-sen University
		当大数据遇到量子计算---谈谈量子算法
15:10 - 15:35	AoE 2:	**Wang Yao**, The University of Hong Kong
		Spintronics in the moire
15:35 - 16:00 Tea Break		
Chairperson: Prof. Zhenyu Zhang, USTC		
16:00 - 16:25	Invited 4:	**Tai Min**, Xi'an Jiaotong University
		Interfacial Magnetism and Its Application to STT-MRAM
16:25 -16:50	Invited 5:	**Yan Zhou**, The Chinese University of Hong Kong, Shenzhen
		Magnetic Skyrmions in Nanostructures
18:00 - 21:00	Banquet	

Tuesday, October 16, 2018		
Chairperson: Prof. Min Tai, XJTU		
09:00 - 09:25	Invited 6	**Xuefeng Guo,** Peking University
		Carbon Electrode-Molecule Junctions: A Reliable Platform for Molecular Electronics
09:25 - 09:50	AoE 3	**Qin Liu,** The University of Hong Kong
		Computational Methodologies for Heterogeneous Electromagnetic Systems
09:50 -10:15	AoE 4	**Mansun Chan**, Hong Kong University of Science and Technology
		i-MOS: a Cloud Based Circuit Simulation and Compact Modelling Platform
10:15 - 10:40 Tea Break		
Chairperson: Prof. Keli Wu, The Chinese University of Hong Kong		
10:40 - 11:05	Invited 7:	**Jinfeng Kang**, Peking University
		Non-volatile Memory Based Computing Paradigms for High-Efficiency Data Processing
11:05 - 11:30	AoE 5:	**Hong Guo**, HKU&McGill
		Computational Materials Science by RESCU - a KS-DFT Method for Solving Thousands of Atoms
11:30 - 11:45	Closing Remarks **Fuchun Zhang**，The University of Hong Kong & University of Chinese Academy of Sciences	
11:45 - 14:00 Lunch Break		
14:00 - 15:00	Free Discussion	
15:00 - 18:00	Hiking	