

The 7th International Conference on Computer Aided Design for Thin-Film Transistors

第7届国际薄膜晶体管计算机辅助设计会议

Beijing Xijiao Hotel, Beijing, China | 26-28 October, 2016

2016/10/26 Wednesday Day 1 (1/3)		
Tutorials (No. 5 Meeting Room)		
9:30 – 10:30	Jin Jang Kyung Hee University, Korea “Device and Process Technologies of Oxide and LTPS TFTs for Display Manufacturing”	Registration (09:00 – 18:00)
10:30 – 11:30	Arokia Nathan University of Cambridge, UK “Oxide Semiconductor TFT Technology for Circuits and Systems”	
Lunch		
13:30 – 14:30	Tse Nga (Tina) Ng University of California San Diego, USA “Printed Organic TFT Sensor Tags”	
14:30 – 15:30	Feng Yan The Hong Kong Polytechnic University, China “Biosensors based on Thin Film Transistors”	
15:30 – 16:00	Break	
16:00 – 18:00	Panel Discussion organized by IEEE EDS Organic Electronics Committee “Opportunities and Challenges of Organic Thin-Film Transistors”	

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2016/10/27 Thursday Day 2 (2/3)			
08:45 – 09:00	Opening (Ginkgo Hall, 银杏大厅)		
09:00 – 10:30	Plenary Session 1 (Ginkgo Hall, 银杏大厅)		
09:00 - 09:30	Samar Saha President of IEEE Electron Device Society “IEEE Electron Devices Society: Mission and Technical Activities”		
09:30 - 10:00	Arokia Nathan University of Cambridge, UK “Design Tools for TFT Circuits and Systems”		
10:00 - 10:30	Kwang-Ting (Tim) Cheng Hong Kong University of Science and Technology, China "Robust Design and Reliability Simulation for TFT Circuits"		
Coffee Break			
10:50 – 12:15	Session 1: Devices and Circuits for Displays (Ginkgo Hall)	10:50 – 12:15	Session 2: High Performance TFTs (No. 5 Meeting Room)
10:50 – 11:10 Invited	Yanzhao Li BOE, China “TFT Recent Progress and Its Applications”	10:50 – 11:10 Invited	Lei Liao Wuhan University, China “Rational Hydrogenation for Enhanced Mobility and High Reliability on ZnO-based Thin Film Transistors: from Simulation to Experiment”
11:10 – 11:30 Invited	Lei Wang Guangzhou New Vision Optoelectronic Tech., China “Progress on Flexible & Printed OLED Displays and their TFT Backplane Technology”	11:10 – 11:30 Invited	Yong-Young Noh Dongguk University, Korea "Development of High Performance Printed Ambipolar Polymer and Carbon Nanotube Complementary Integrated Circuits for Flexible Electronics"
11:30 – 11:45	Siming Hu Kunshan New Flat Panel Display Tech. Center, China “A New CMOS Pixel Compensation Circuit for AMOLED Display”	11:30 – 11:45	Shubin Pi Fudan University, China Investigation of Nitrogen Doping and Double Channel Layers for the Indium Tungsten Oxide Thin Film Transistors

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11:45 – 12:00	Wenjiang Liu Shanghai Jiao Tong University, China “Current Feedback Driving with Dynamic Supply Voltage Scaling for Low Power AMOLED Displays”	11:45 – 12:00	Changdong Chen Sun Yat-Sen University, China “Ultra-High Mobility Thin-film Transistors with MOCVD Growth In ₂ O ₃ ”
12:00 – 12:15	Linlin Fang Northeastern University, China “Carbon Nanotube Thin-film Transistors and Driving Circuits for Flexible Display Application”	12:00 – 12:15	Seungpyo Hong Kyung Hee University, Korea “Reduction of Leakage Current by Wet Annealing on BLA Polycrystalline Silicon Thin-Film Transistor”
Lunch			
14:00 – 15:10	Session 3: TFT New Applications (Ginkgo Hall)	14:00 – 15:10	Session 4: Printed TFTs (No. 5 Meeting Room)
14:00 – 14:20 Invited	Qing Wan Nanjing University, China “Oxide-based Electric-Double-Layer Thin-Film Transistors For Neuromorphic Systems”	14:00 – 14:20 Invited	Mario Caironi CNST of IIT, Italy “Enhancing the Speed of Printed and Direct-written Polymer Transistors”
14:20 – 14:40 Invited	Kai Wang Sun Yat-Sen University, China “Beyond Display: Emerging Applications of Thin-Film Transistors”	14:20 – 14:40 Invited	Linfeng Lan South China University of Technology, China “Printed Short-channel Thin-film Transistors”
14:40 – 14:55	Vahid Keshmiri Linköping University, Sweden “The Applications of OECTs in Supercapacitor Balancing Circuits”	14:40 – 14:55	Jianwen Zhao SINANO, CAS, China “Printed Thin-film Transistors and Circuits Based on Sorted Semiconducting Single-walled Carbon Nanotubes”
14:55 – 15:10	Hantao He Sun Yat-sen University, China “A Fluorescence Detector for Rapid On-Chip Detection of Amniotic Fluid Embolism Biomarker Based on Dual-Gate Photosensitive Thin-Film Transistor”	14:55 – 15:10	Guixia Jiang Qingdao University, China “Solution-Processed High-k Magnesium Oxide Dielectric for n-Type In ₂ O ₃ and p-Type NiO Thin Film Transistors”
Coffee Break			

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15:30 – 16:55	Session 5: TCAD and Compact Modeling (Ginkgo Hall)	15:30 – 16:55	Session 6: Device Stabilities (No. 5 Meeting Room)
15:30 – 15:50 Invited	Ahmed Nejim Silvaco, UK "TCAD for Compact Model Development? Get Real!"	15:30 – 15:50 Invited	Shengdong Zhang Peking University, China "Oxygen Adsorption Effects of Metal Oxide Thin Film Transistors"
15:50 – 16:10 Invited	Radu Sporea University of Surrey, UK "TCAD and Circuit Simulation of Thermal Effects in Source-gated Transistors"	15:50 – 16:10 Invited	Hongtao Cao NIMTE, CAS, China "Investigation on the Stability of Ambipolar SnO TFTs"
16:10 – 16:25	Quan Chen The University of Hong Kong, China "Artificial Neural Network Compact Model for TFTs"	16:10 – 16:25	Wei Tang Shanghai Jiao Tong University, China "Improved Bias Stress Stability for Low-voltage Polymer OTFTs with Low-k/High-k Bilayer Gate Dielectric"
16:25 – 16:40	Guangwei Xu Institute of Microelectronics, CAS, China "The Description of Pinch-off Point for Short Channel Organic Thin Film Transistors"	16:25 – 16:40	Gongtan Li Sun Yat-Sen University, China "Nitrogen Doping Amorphous InGaZnO Thin Film Transistors for Highly Stable Operation Under Gate Bias and Light Stressing"
16:40 – 16:55	Jielin Fang Jinan University, China "Physical Modeling of AOS TFTs Based on Symmetric Quadrature Method Considering Degenerate Regime"	16:40 – 16:55	Jianeng Xu Shanghai Jiao Tong University, China "Ambient Effects on the Light Illumination Stability of Amorphous InGaZnO Thin Film Transistors"
17:00-18:30	Poster Session (Ginkgo Hall)		
18:40	Banquet		

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2016/10/28 Friday Day 3 (3/3)			
9:00 – 10:30		Plenary Session 2 (Ginkgo Hall)	
09:00 - 09:30	Benjamin Iñiguez , Universitat Rovirai Virgili, Spain "Recent Progress in TFT Compact Modeling and Parameter Extraction Techniques"		
09:30 - 10:00	Yunqi Liu Institute of Chemistry, Chinese Academy of Sciences, China "High Performance Organic Field-Effect Transistors and Circuits"		
10:00 - 10:30	Jamal Deen McMaster University, Canada "Compact Modeling of Organic/Polymeric Thin Film Transistors - Past, Present and Future"		
Coffee Break			
10:50 – 12:15	Session 7: Circuit Design (Ginkgo Hall)	10:50 – 12:20	Session 8: Simulation & Characterization (No. 5 Meeting Room)
10:50 – 11:10 Invited	Jordi Carrabina Bordoll Univ Autònoma de Barcelona, Spain "Process Design Kit and EDA Tools for Organic/Printed Electronics"	10:50 – 11:10 Invited	Chao Jiang The National Center for Nanoscience and Tech., China "Vertical Charge Transport via Small Polaron Hopping within Lamellar Organic Single Crystal"
11:10 – 11:30 Invited	Byong-Deok Choi Hanyang University, Korea "Oxide-TFT Circuit Design for High-Reliability Flexible Electronics"	11:10 – 11:30 Invited	Sungsik Lee University of Cambridge, UK "Threshold Voltage and Conduction Mechanisms in Disordered Semiconductor-based Thin Film Transistors"
11:30 – 11:45	Qinghang Zhao Tsinghua University, China, "Noise Margin Analysis for Pseudo-CMOS Circuits"	11:30 – 11:50 Invited	Di Geng Kyung Hee University, Korea "Mobility and V_{th} Extraction by Time-of-flight Analysis for a-IGZO TFTs"
11:45 – 12:00	Manuel Llamas Universitat Autònoma de Barcelona, Spain	11:50 – 12:05	Zhiheng Han Institute of Microelectronics, CAS, China "Surface Potential Measurement on Contact Resistance of a-IGZO TFTs by

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	“Technology Independent Yield-Aware Place & Route Strategy for Printed Electronics Gate Array Circuits”		Kelvin Probe Force Microscopy”
12:00 – 12:15	Huimin Li Sun Yat-sen University, China “Design Methodology for a Fingerprint Sensor-Integrated Display Pixel and Array based on Dual-Gate a-Si:H Photosensitive TFT”	12:05 – 12:20	Michiaki Sakamoto Japan Display Inc., Japan “Simulation for Unidirectional Ion Flow in TFT-LCDs Induced by AC-Pixel-Driving Signals”
Lunch			
14:00 – 15:10	Session 9: New Material TFTs (Ginkgo Hall)	14:00 – 15:10	Session 10: Organic TFTs (No. 5 Meeting Room)
14:00 – 14:20 Invited	Xuelei Liang Peking University, China “Carbon Nanotube Thin Film Transistors for Display Technology”	14:00 – 14:20 Invited	Simon Ogier Neudrive, UK "High Performance Flexible OTFT Materials and Processes for Display, Logic and Sensor Applications"
14:20 – 14:40 Invited	Fukai Shan Qingdao University, China “The Fully Solution-processed p-type Metal Oxide Thin Film and its Integration for Thin Film Transistors”	14:20 – 14:40 Invited	Chuan Liu Sun Yat-sen University, China “On the Controversy of Carrier Mobility in Organic TFTs”
14:40 – 14:55	Yuzhi Li South China University of Technology, China “Low Temperature, Stable Thin-film Transistors based on Photo-patternable Solution-processed InOx:Li Semiconductors”	14:40 – 14:55	Longzhen Qiu Hefei University of Technology, China “Polymer Brush Modified Surface for High-performance Inkjet-printed Organic Thin-film Transistors”
14:55 – 15:10	Lingyan Liang NIMTE, CAS, China “The Physical Properties of Zn-Sn-N Thin Films and their TFT Application”	14:55 – 15:10	Jiaqing Zhao Shanghai Jiao Tong University, China “Low Voltage Organic Thin-film Transistor with Reduced Sub-gap DOS for Power Efficient Logic Circuits”
Coffee Break			
15:30-16:55	Session 11: New Circuit Technologies (Ginkgo Hall)	15:30-16:55	Session 12: Flexible TFTs (No. 5 Meeting Room)

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15:30 – 15:50 Invited	Ta-Ya Chu National Research Council, Canada “Development of Printed Logic Circuits”	15:30 – 15:50 Invited	Xifeng Li Shanghai University, China High Stability of Low Temperature and Flexible IGZO TFT by Plasma Treatment
15:50 – 16:10 Invited	Deyu Tu Linköping University, Sweden “Organic Power Electronics: AC-DC Conversion with High-Voltage Organic Thin-film Transistors”	15:50 – 16:10 Invited	Dong-Ming Sun Institute of Metal Research, CAS, China “Scale-up Fabrication of Single Wall carbon Nanotube Thin Film and its Application in Flexible Thin-film Transistors”
16:10 – 16:25	Nan Yang Kunshan New Flat Panel Display Tech Center, China “A New p-type Shift Register with Detection Function for Flexible Display”	16:10 – 16:25	Kun Hu Kunshan New Flat Panel Display Tech Center, China “Failure Mechanism of TFT Devices on Flexible Substrate by Cyclic Bending Test”
16:25 – 16:40	Zheyu Liu Tsinghua University, Beijing, China “Computable Flexible Electronics: Circuits Exploring for Image Filtering Accelerator with OTFT”	16:25 – 16:40	Younwoo Choe Kyung Hee University, Korea “Bendable Corbino a-IGZO TFTs”
16:40 – 16:55	Ahmed Rasheed Sun Yat-Sen University, China “Heart Rate/Impulse Monitoring Using Autonomous PVDF-Integrated Dual-Gate Thin-Film Transistor”	16:40 – 16:55	Peng Xiao South China University of Technology, China “High-mobility Flexible Thin-film Transistors with Zirconium-doped Indium Oxide Channel Layer”
17:10-17:40 (Ginkgo Hall)	Award Session Announcement of 2018 CAD-TFT Closing remarks		