

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”		

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

2016/10/27 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

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

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			

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

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		

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

2016/10/28 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

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

	“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)

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

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		