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Ralph Etienne-Cummings, Johns Hopkins University, Baltimore, MD, USA

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Centro Federal de Educação Tecnológica Celso Suckow da Fonseca (CEFET/RJ), Nova Iguaçu, RJ, Brazil

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Yufei Hu{1}, Qirui Zhang{1}, Xiaoyi Sun{1}, Bo Zhang{1}, Min Li{2}, Yufan Zhou{3}
{1}Shanghai Jiao Tong University, Shanghai, China; {2}Shanghai Jiao Tong University, Shanghai, China; {3}Shanghai Jin Shan High School, Shanghai, China

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{1}National Cheng-Kung University, Tainan, Taiwan; {2} Tainan First High School, Tainan, Taiwan

***CASS Student Design Competition posters/demos will subsequently be on display in the poster hall in Harborside Ballroom during the Tuesday Poster Session from 15:00-16:30.*

Live DEMonstrations – monday, may 29th

Demonstration Session I
Time: Monday, May 29 (14:00-17:00)
Room: Harborside Ballroom
Chair(s): Jennifer Blain Christen - Arizona State University; Shih-Chii Liu - Swiss Federal Institute of Technology in Zurich

Poster session – monday, may 29th

Sensory Systems
Time: Monday, May 29 (15:30-17:00)
Room: Harborside Ballroom
Chair(s): Piotr Dudek - The University of Manchester; Timothy Constandinou - Imperial College London

Biomedical Signal Processing
Time: Monday, May 29 (15:00-17:30)
Room: Harborside Ballroom
Chair(s): Nitish Thakor - Johns Hopkins University; Timothy Constandinou - Imperial College London

Optimization and Manufacturability
Time: Monday, May 29 (15:30-17:00)
Room: Harborside Ballroom
Chair(s): Meng-Fan Chang - National Tsing Hua University; Gehm Moraes - Pontifical Catholic University of Rio Grande do Sul

Communication Methods
Time: Monday, May 29 (15:30-17:00)
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Chair(s): Hsi-Pin Ma - National Tsing Hua University; Tokunbo Ogunfunmi - Santa Clara University

Video Signal Processing & Coding Algorithms
Time: Monday, May 29 (15:30-17:00)
Room: Harborside Ballroom
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Complex Networks & Models
Time: Monday, May 29 (15:30-17:00)
Room: Harborside Ballroom
Chair(s): Yoshifumi Nishio - Tokushima University; Federico Bizzarri - Politecnico di Milano

Data Converters II
Time: Monday, May 29 (15:30-17:00)
Room: Harborside Ballroom
Chair(s): Shahriar Mirabbasi - University of British Columbia; George Yuan - Hong Kong University of Science and Technology

Amplifiers, Analog Filtering, RF Circuits & Interface Circuits
Time: Monday, May 29 (15:30-17:00)
Room: Harborside Ballroom
Chair(s): Mohamad Sawan - Polytechnique Montréal; Nuno Paulino – UNINOVA

Room: Harborside Ballroom
Chair(s): Xiaozhe Wang - McGill University; Zbigniew Galias - AGH University of Science and Technology

Education Tools
Time: Monday, May 29 (15:30-17:00)
Room: Harborside Ballroom
Chair(s): Yun He - Tsinghua University; Joos Vandewalle - Katholieke Universiteit Leuven

Pioneers of Circuits and Systems I
Time: Monday, May 29 (17:00-18:00)
Room: Grand Ballroom V-VI
Chair(s): Pamela Abshire - University of Maryland

FutureCAS panel – monday, may 29th

FutureCAS Panel
Time: Monday, May 29 (6:00-7:30)
Room: Grand Ballroom V-VI

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Panelists: Jeannette M. Wing, Orla Feely, Mandy Pant, Frederica Darema

Radar Circuits and Systems
Time: Tuesday, May 30 (8:00-9:30)
Room: Dover A
Chair(s): Ioannis Syllaios - University of Texas at Dallas; Joseph Chang - Nanyang Technological University

IoVT Panel
Time: Tuesday, May 30 (8:00-9:30)
Room: Dover BC
Moderator(s): Dr. Yen-Kuang Chen - Intel Corporation, Prof. Eduard Alarcon - UPC

Panelists:
Prof. Magdy Bayoumi, University of Louisiana at Lafayette, USA
Prof. Shao-Yi Chien, National Taiwan University, USA
Dr. Shipeng Li, Cogobuy/IngDan, China
Prof. Yung-Hsiang Lu, Purdue University, USA
Prof. Tokunbo Ogunfunmi, Santa Clara University, USA

Hardware Accelerators for Deep Learning & Cognitive Systems
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Room: Grand Ballroom I
Chair(s): Ralph Etienne-Cummings - Johns Hopkins University; Chetan Thakur - Johns Hopkins University

Compressive Sensing
Time: Tuesday, May 30 (8:00-9:30)
Room: Grand Ballroom II
Chair(s): Wei-Ping Zhu - Concordia University; Yun Chen - Fudan University

Circuits for Power Management & Voltage References
Time: Tuesday, May 30 (8:00-9:30)
Room: Grand Ballroom III
Chair(s): Nathan Neihart - Iowa State University; Jose Silva-Martinez - Texas A&M University

Hardware Security
Time: Tuesday, May 30 (8:00-9:30)
Room: Grand Ballroom IV
Chair(s): Ankur Srivastava - University of Maryland; Chip Hong Chang - Nanyang Technological University

Vision Sensors
Time: Tuesday, May 30 (8:00-9:30)
Room: Grand Ballroom VII
Chair(s): Piotr Dudek - The University of Manchester; Ricardo Carmona Galán - Instituto of Microelectrónica of Sevilla

Digitally Intensive Frequency Synthesis for Internet of Things Applications
Time: Tuesday, May 30 (8:00-8:30)
Room: Grand Ballroom VIII
Chair(s): Paul Sotiriadis - University of California, San Diego; Peter Kennedy - University College Cork

Wireless & Implantable/Injectable Technology Circuits & Systems II
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Room: Grand Ballroom IX
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ADCs for Wireless Communication
Time: Tuesday, May 30 (8:00-9:30)
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Cognitive Radio & Security Systems
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Room: Laurel AB
Chair(s): Maire O'Neill - Queens University; Joseph Cavallaro - Rice University

Arithmetic & Logic Circuits
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Advanced Video Streaming & Transmission
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Sensing Circuits
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Room: Grand Ballroom VII
Chair(s): Meng-Fan Chang - National Tsing Hua University; Joseph Friedman - University of Texas at Dallas

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CAS for Human Machine Interfaces / Brain Machine Interfaces
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Data Converters I
Time: Tuesday, May 30 (11:00-12:30)
Room: Grand Ballroom X
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Power Converters II
Time: Tuesday, May 30 (13:30-15:00)
Room: Dover BC
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Time: Tuesday, May 30 (13:30-15:00)
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Time: Tuesday, May 30 (13:30-15:00)
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RF Circuits II
Time: Tuesday, May 30 (13:30-15:00)
Room: Grand Ballroom III
Chair(s): Thierry Taris - Laboratoire de l'Intégration du Matériau au Système; Ioannis Syllaios - University of Texas at Dallas

PUF Circuits & Hardware Trojans
Time: Tuesday, May 30 (13:30-15:00)
Room: Grand Ballroom IV
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Amplifiers & Analog Filtering
Time: Tuesday, May 30 (13:30-15:00)
Room: Grand Ballroom VII
Chair(s): Joseph Chang - Nanyang Technological University; Nuno Paulino - UNINOVA

Flexible Internet of Things: From Devices to Systems
Time: Tuesday, May 30 (13:30-15:00)
Room: Grand Ballroom VIII
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Integrated Biomedical Systems, BioMEMS & Biosensors/Actuators I
Time: Tuesday, May 30 (13:30-15:00)
Room: Grand Ballroom IX
Chair(s): Mohamad Sawan - Polytechnique Montréal; Ibrahim Elfadel - Masdar Institute

Digital to Analog Conversion
Time: Tuesday, May 30 (13:30-15:00)
Room: Grand Ballroom X
Chair(s): Randall Geiger - Iowa State University; Tong Ge - Nanyang Technological University

Communication & Timing Circuits
Time: Tuesday, May 30 (13:30-15:00)
Room: Laurel AB
Chair(s): Jin-Ku Kang - Inha University; Shoba Krishnan - Santa Clara University

Memory Circuits
Time: Tuesday, May 30 (13:30-15:00)
Room: Laurel CD
Chair(s): Lan-Da Van - National Chiao Tung University; Yuan-Hao Huang - National Tsing Hua University

Video Coding & Multimedia System Architecture
Time: Tuesday, May 30 (13:30-15:00)
Room: Kent AB
Chair(s): Chris Lee - National Cheng Kung University; Shao-Yi Chien - National Taiwan University

Applied Signal Processing & Deep Learning
Time: Tuesday, May 30 (13:30-15:00)
Room: Essex AB
Chair(s): Eduard Alarcon - Universitat Politècnica de Catalunya

LIVE DEMONSTRATIONS – tuesday, may 30TH

Demonstration Session II
Time: Tuesday, May 30 (13:30-16:30)
Room: Harborside Ballroom
Chair(s): Jennifer Blain Christen - Arizona State University; Shih-Chii Liu - Swiss Federal Institute of Technology in Zurich

Jamal Molin{1}, Christopher Simmons{1}, Garrett Nixon{2}, Ralph Etienne-Cummings{1}
{1}Johns Hopkins University, United States; {2}Sidwell Friends High School, United States

poster session – tuesday, may 30th

Integrated Biomedical Systems & BioMEMS
Time: Tuesday, May 30 (15:00-16:30)
Room: Harborside Ballroom
Chair(s): Nitish Thakor - Johns Hopkins University; Pantelis Georgiou - Imperial College London

Other Areas in Analog & Mixed Signal Circuits & Systems
Time: Tuesday, May 30 (15:00-16:30)
Room: Harborside Ballroom
Chair(s): Tong Ge - Nanyang Technological University; Igor Filanvosky - University of Alberta

DSP : Algorithms and Implementations
Time: Tuesday, May 30 (15:00-16:30)
Room: Harborside Ballroom
Chair(s): Arjuna Madanayake - University of Akron; Mohsin Jamali - University of Toledo

Nanoelectonics & Memristor Technology
Time: Tuesday, May 30 (15:00-16:30)
Room: Harborside Ballroom
Chair(s): Danella Zhao - University of Louisiana at Lafayette; Hao Jiang - San Francisco State University

Spiking and Learning Systems
Time: Tuesday, May 30 (15:00-16:30)
Room: Harborside Ballroom
Chair(s): Ricardo Carmona Galán - Instituto of Microelectrónica of Sevilla; Shoushun Chen - Nanyang Technological University

Signal Processing for Interaction & Augmented Reality
Time: Tuesday, May 30 (15:00-16:30)
Room: Harborside Ballroom
Chair(s): Susanto Rahardja - Northwestern Polytechnical University; Zicheng Liu - Microsoft Research

Digital Integrated Circuits and Systems
Time: Tuesday, May 30 (15:00-16:30)
Room: Harborside Ballroom
Chair(s): Saeid Nooshabadi - Michigan Technological University

Communications Security
Time: Tuesday, May 30 (15:00-16:30)
Room: Harborside Ballroom
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Time: Tuesday, May 30 (15:00-16:30)
Room: Harborside Ballroom
Chair(s): Hiroo Sekiya - Chiba University; Junrui Liang – Shanghai Tech University

PIONEERS OF CAS – tuesday, may 30th

Pioneers of Circuits and Systems II
Time: Tuesday, May 30 (16:30-17:30)
Room: Grand Ballroom V-VI
Chair(s): Pamela Abshire - University of Maryland

Complex Networks & Chaos
Time: Wednesday, May 31 (8:00-9:30)
Room: Dover A
Chair(s): Michael Tse - Hong Kong Polytechnic University; Zbigniew Galias - AGH University of Science and Technology

Circuits & Systems for Energy Harvesting
Time: Wednesday, May 31 (8:00-9:30)
Room: Dover BC
Chair(s): Dong He - Virginia Polytechnic Institute and State University; Philip X.-L. Feng - Case Western Reserve University

Neuromorphic Vision
Time: Wednesday, May 31 (8:00-9:30)
Room: Grand Ballroom I
Chair(s): Fathi Salem - Michigan Statue University; Alejandro Linares-Barranco - Universidad de Sevilla

Adaptive Filters
Time: Wednesday, May 31 (8:00-9:30)
Room: Grand Ballroom II
Chair(s): Mrityunjoy Chakraborty - Indian Institute of Technology Kharagpur; Wei Xing Zheng - Western Sydney University

RF Circuits III
Time: Wednesday, May 31 (8:00-9:30)
Room: Grand Ballroom III
Chair(s): Nathan Neihart - Iowa State University; Ayman Fayed - Ohio State University

Trust in Fabrication & Post-Silicon Adaptation for Hardware Security
Time: Wednesday, May 31 (8:00-9:30)
Room: Grand Ballroom IV
Chair(s): Aijiao Cui - Harbin Institute of Technology Shenzhen, China

Analog & Digital Senses
Time: Wednesday, May 31 (8:00-9:30)
Room: Grand Ballroom VII
Chair(s): Andreas Andreou - Johns Hopkins University; Amine Bermak - Hamad Bin Khalifa University

Signal Integrity & Energy Efficiency
Time: Wednesday, May 31 (8:00-9:30)
Room: Grand Ballroom VIII
Chair(s): Duncan Elliott - University of Alberta; Antonio Strollo - Università degli Studi di Napoli Federico II

Wearable Sensors, Circuits & Systems
Time: Wednesday, May 31 (8:00-9:30)
Room: Grand Ballroom IX
Chair(s): Wouter Serdijn - Delft University of Technology; Zhihua Wang - Tsinghua University

Filter Design
Time: Wednesday, May 31 (8:00-9:30)
Room: Grand Ballroom X
Chair(s): Igor Filanvosky - University of Alberta; Nuno Paulino - UNINOVA

Error Correcting Codes
Time: Wednesday, May 31 (8:00-9:30)
Room: Laurel AB
Chair(s): Zhiyuan Yan - Lehigh University; Xinmiao Zhang - Case Western University

Design for Test & Manufacturability
Time: Wednesday, May 31 (8:00-9:30)
Room: Laurel CD
Chair(s): Ricardo Reis - Federal University of Rio Grande do Su; Massimo Alioto - NTU

CAS-T papers on Memory
Time: Wednesday, May 31 (8:00-9:30)
Room: Kent AB
Chair(s): Pierre-Emmanuel Gaillardon - University of Utah; Lan-Da Van - National Chiao Tung University

Spintronic-based Technology
Time: Wednesday, May 31 (13:30-15:00)
Room: Dover A
Chair(s): Malgorzata Chrzanows-Jeske - Portland State University; Mircea Stan - University of Virginia

Energy Grids & Systems
Time: Wednesday, May 31 (13:30-15:00)
Room: Dover BC
Chair(s): Chika Nwankpa - Drexel University; Xiaozhe Wang - McGill University

Brain Inspired Circuits and Systems
Time: Wednesday, May 31 (13:30-15:00)
Room: Grand Ballroom I
Chair(s): Sankar Basu - National Science Foundation; Mona Zaghloul - George Washington University

Digital Filters & Filter Banks
Time: Wednesday, May 31 (13:30-15:00)
Room: Grand Ballroom II
Chair(s): Tapio Saramaki - Tampere University of Technology; Zhiping Lin - Nanyang Technological University

Wireless Power & Data Transfer to Biomedical Implants
Time: Wednesday, May 31 (13:30-15:00)
Room: Grand Ballroom III
Chair(s): Pedram Mohseni - Case Western Reserve; Mehdi Kiani - Pennsylvania State University

3D Integrated Circuits
Time: Wednesday, May 31 (13:30-15:00)
Room: Grand Ballroom IV
Chair(s): Eby Friedman - University of Rochester; Hassan Mostafa - University of Waterloo

Analog Signal Processing
Time: Wednesday, May 31 (13:30-15:00)
Room: Grand Ballroom VII
Chair(s): Filippo Neri - u-blox, Switzerland; Nuno Paulino - UNINOVA

Biosignal Amplifiers
Time: Wednesday, May 31 (13:30-15:00)
Room: Grand Ballroom IX
Chair(s): Timothy Constandinou - Imperial College London; Ross M Walker - Michigan State University

Regulators & References
Time: Wednesday, May 31 (13:30-15:00)
Room: Grand Ballroom X
Chair(s): Ayman Fayed - Ohio State University; Nathan Neihart - Iowa State University

Memristor-Based Technology & Circuits I
Time: Wednesday, May 31 (13:30-15:00)
Room: Laurel AB
Chair(s): Yeong-Kang Lai - National Chung Hsing University; Meng-Fan Chang - National Tsing Hua University

Logic Circuits & Synthesis
Time: Wednesday, May 31 (13:30-15:00)
Room: Laurel CD
Chair(s): Kwen-Siong Chong - Nanyang Technological University; Ricardo Reis - Federal University of Rio Grande do Su

Memory: DRAM, SRAM, ReRAM, Flash, Racetrack
Time: Wednesday, May 31 (13:30-15:00)
Room: Kent AB
Chair(s): Daniele Ielmini - Politecnico di Milano; Sorin Cotofana - Delft University of Technology

Spiking & Event-Based Systems I
Time: Wednesday, May 31 (15:15-16:45)
Room: Dover A
Chair(s): Majid Ahmadi - University of Windsor; Chiara Bartolozzi - Istituto Italiano di Tecnologia

Neuromorphic Circuits & Systems for Robotics
Time: Wednesday, May 31 (15:15-16:45)
Room: Dover BC
Chair(s): Scott Koziol - Baylor University; Jeff Krichmar - University of California, Irvine

Emerging Technologies in Neural System Implementations
Time: Wednesday, May 31 (15:15-16:45)
Room: Grand Ballroom I
Chair(s): Chiara Bartolozzi - Istituto Italiano di Tecnologia; Jim Harkin - Ulster University

Image Processing
Time: Wednesday, May 31 (15:15-16:45)
Room: Grand Ballroom II
Chair(s): Omair Ahmed - Concordia University; Kai-Kuang Ma - Nanyang Technological University

Low Power Digital Circuits
Time: Wednesday, May 31 (15:15-16:45)
Room: Grand Ballroom III
Chair(s): Jun Zhou - Agency for Science, Technology and Research; Fengbo Ren - Arizona State University

Oscillators, Phase-locked Loops & Others II
Time: Wednesday, May 31 (15:15-16:45)
Room: Grand Ballroom IV
Chair(s): Igor Filanvosky - University of Alberta; Degang Chen - Iowa State University

Sensory Circuits & Systems
Time: Wednesday, May 31 (15:15-16:45)
Room: Grand Ballroom VII
Chair(s): Amine Bermak - Hamad Bin Khalifa University; Timothy Constandinou - Imperial College London

Modeling and Design Tools
Time: Wednesday, May 31
Room: Grand Ballroom X
Chair(s): Filippo Neri - u-blox, Switzerland; Nuno Paulino - UNINOVA

Nanoelectronics I
Time: Wednesday, May 31 (15:15-16:45)
Room: Laurel AB
Chair(s): Robert Chen-Hao Chang - National Chung Hsing University/National Chi Nan University; Sorin Cotofana - Delft University of Technology

Advanced Digital Techniques
Time: Wednesday, May 31 (15:15-16:45)
Room: Laurel CD
Chair(s): Izzet Kale - University of Westminster; Emre Salman - Stony Brook University

Future Technology for Circuits and Systems
Time: Wednesday, May 31 (15:15-16:45)
Room: Kent AB
Chair(s): Sorin Cotofana - Delft University of Technology; Yeong-Kang Lai - National Chung Hsing University