

2016 Lewis Winner Award for Outstanding Paper

“3D Ultrasonic Fingerprint Sensor-on-a-Chip”

Hao-Yen Tang¹, Yipeng Lu², Fari Assaderaghi³, Michael J. Daneman³, Xiaoyue Jiang¹, Martin Lim³, Xi Li¹, Eldwin J. Ng³, Utkarsh Singhal¹, Julius M. Tsai³, David A. Horsley², Bernhard E. Boser¹

¹University of California, Berkeley, CA

²University of California, Davis, CA

³Invensense, San Jose, CA

2016 Distinguished-Technical-Paper Award

“A 94.6%-Efficiency Fully Integrated Switched-Capacitor DC-DC Converter in Baseline 40nm CMOS Using Scalable Parasitic Charge Redistribution”

Nicolas Butzen, Michiel Steyaert

KU Leuven, Leuven, Belgium

2016 Jan Van Vesseem Award for Outstanding European Paper

“A 2.2GHz Continuous-Time $\Delta\Sigma$ ADC with -102dBc THD and 25MHz BW”

Lucien J. Breems¹, Muhammed Bolatkale¹, Hans Brekelmans¹, Shagun Bajoria¹, Jan Niehof¹, Robert Rutten¹, Bert Oude-Essink², Franco Fritschij², Jagdip Singh², Gerard Lassche²

¹NXP Semiconductors, Eindhoven, The Netherlands

²Catena Microelectronics, Delft, The Netherlands

2016 Takuo Sugano Award for Outstanding Far-East Paper

“A 4Gpixel/s 8/10b H.265/HEVC Video Decoder Chip for 8K Ultra HD Applications”

Dajiang Zhou, Shihao Wang, Heming Sun, Jianbin Zhou, Jiayi Zhu, Yijin Zhao, Jinjia Zhou, Shuping Zhang, Shinji Kimura, Takeshi Yoshimura, Satoshi Goto

Waseda University, Kitakyushu, Japan

2016 ISSCC Award for Outstanding Forum Presenter

“A Matter of Trust: Overview of Hardware Security Challenges”

Kerry Bernstein

Defense Advanced Research Projects Agency (DARPA), Arlington, VA

2016 Evening Session Award

“Survey Says!”

Organizer: Harry Lee, MIT, Cambridge, MA

Co-Organizer: Matt Straayer, Maxim Integrated, North Chelmsford, MA

Moderator: Chris Mangelsdorf, Analog Devices, San Diego, CA

Panelists:

SeongHwan Cho, KAIST, Daejeon, Korea

Marco Corsi, Texas Instruments, Oak Point, TX

Michael Flynn, University of Michigan, Ann Arbor, MI

Harmke de Groot, imec/Holst Centre, Eindhoven, The Netherlands

Franco Maloberti, University of Pavia, Pavia, Italy

Takashi Oshima, Hitachi, Tokyo, Japan

David Robertson, Analog Devices, Wilmington, MA

Behzad Razavi, University of California, Los Angeles, CA

2016 Demonstration Session Certificate of Recognition

“An Over 120dB Simultaneous-Capture Wide-Dynamic-Range 1.6e- Ultra-Low-Reset-Noise Organic-Photoconductive-Film CMOS Image Sensor”

Kazuko Nishimura, Yoshihiro Sato, Junji Hirase, Ryota Sakaida, Masaaki Yanagida, Tokuhiko Tamaki, Masayuki Takase, Hidenari Kanehara, Masashi Murakami, Yasunori Inoue

Panasonic, Moriguchi, Japan

2016 Demonstration Session Certificate of Recognition

“A 0.55V 1.1mW Artificial-Intelligence Processor with PVT Compensation for Micro Robots”

Youchang Kim, Dongjoo Shin, Jinsu Lee, Yongsu Lee, Hoi-Jun Yoo

KAIST, Daejeon, Korea

2017 Silkroad Award

“A 6.9mW 120fps 28×50 Capacitive Touch Sensor with 41.7dB SNR for 1mm Stylus Using Current-Driven $\Delta\Sigma$ ADCs”

Hyunseok Hwang¹, Hyeyoen Lee¹, Hongchae Kim², Youngcheol Chae¹

¹Yonsei University, Seoul, Korea

²TRAIS, Ansan, Korea

2017 Silkroad Award

“A 135mW Fully-Integrated Data Processor for Next-Generation Sequencing”

Yi-Chung Wu¹, Jui-Hung Hung², Chia-Hsiang Yang^{1,2}

¹National Taiwan University, Taipei, Taiwan

²National Chiao Tung University, Hsinchu, Taiwan