

AACD 2024

XXXII Workshop on Advances in Analogue Circuit and Design

University of Pavia Pavia (Italy)

April, 9 - 11, 2024

https://www.mbtechnoservices.com/aacd24



Final Program

April	. 9	, 2024

- 8.00 Registration
- Opening Ceremony

High-Performance Audio — Chairman: Bram Nauta (University of Twente, The Netherlands)

- Mikkel Høverby (Consultant, Denmark), "20 Years of Fully Integrated Class-D Audio"
 Pedro Amaral (Infineon, Austria), "High-Performance Capacitive MEMS-Based Microphones for Consumer Market Applications: 9.45 Analog Design and System Considerations'
- 10.30 Coffee Break
- Daniel Schinkel (Axign/Monolithic Power Systems, The Netherlands), "Mixed-Signal Amplifier Control" *11.00*
- Enrico Oberti (Inventym, Italy), "Ultra-Low Power Class-D Amplifiers for True Wireless Stereo (TWS) Applications"
- *12.30*
- Huajun Zhang (TU Delft, The Netherlands), "Capacitively Coupled Class-D Audio Amplifiers" 14 NN
- Marco Berkhout (Goodix, The Netherlands), "Smart Speaker Drivers"
- *15.30*
- Panel Discussion *16.00*
- Welcome Cocktail 19.00

April. 10, 2024

Biomedical and Wearable Applications — Chairman: Kofi Makinwa (TU Delft, The Netherlands) Giuseppe Bruno (STMicroelectronics, Italy), "Wearable Devices for Vital Sign Monitoring" Yun-Shiang Shu (MediaTek, Taiwan), "Biopotential Sensing in Consumer Wearables with Dry Electrodes"

- 9.00
- 10.30
- Jiawei Xu (Fudan University, China), "Multimodal Analog Front-End Circuits for Wearable Healthcare" *11.00*
- Dante Muratore (TU Delft, The Netherlands), "Implantable Electronics for a High-Fidelity Artificial Retina"
- Nick van Helleputte (imec, Belgium), "Sensing Electro-Chemical Signals with CMOS" *14.00*
- 14.45 Drew Hall (University of California at San Diego, USA), "CMOS Chips for Single-Molecule Biosensing"
- *15.30* Coffee Break
- *16.00* Panel Discussion
- 20.00 Gala Dinner

April, 11, 2024

High-Voltage Analog — Chairman: Andrea Baschirotto (University of Milano-Bicocca, Italy)

- 9.00 Davide Giacomini (Infineon Technologies, Italy), "The Magic of High Voltage Technologies in the Development of Analog Integrated Circuits for Applications up to 1200 V"
- Jef Thone (MindCet, Belgium), "Design Techniques for WBG Transistor Adoption in HV Power Conversion" 9.45
- 10.30
- 11.00 Ruida Yun (Analog Devices, USA), "Introduction to High-Voltage Isolation Technology, from Process Development to Circuit
- Stefen Heinen (RWTH Aachen University, Germany), "Smart High-Voltage Integrated Circuits"
- *12.30*
- Bernhard Wicht (Hannover University, Germany), "Chip-Scale High-Voltage Power Supplies" *14.00*
- Marco Grassi (University of Pavia, Italy), "High-Voltage SC DC-DC Converters for High-Efficiency at Light-Load Power Supplies"
- Panel Discussion

AACD 2024 Organization

Scientific Committee

Andrea Baschirotto - University of Milan-Bicocca (Italy) Kofi Makinwa - TU Delft (The Netherlands)

Bram Nauta - University of Twente (The Netherlands)

Organizing Committee

Andrea Baschirotto - University of Milano-Bicocca (Italy) Piero Malcovati - University of Pavia (Italy)

Local organizers







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