

Room A
[Applied Electronics 2024]
Schedule – Overview

09:00 – 09:20	Opening speech
09:20 – 11:20	Applied electronic systems – I
11:20 – 11:30	Coffee break
11:30 – 14:10	Applied electronic systems – II

Room A – Schedule [Applied Electronics 2024]

Applied electronic systems – I

09:20	65nm CMOS Charge Pump Powered Driver for Flyback GaN Power Switch Šovčík M., Arbet D., Kováč M., Ondica R., Stopjaková V.
09:40	Advancements in Automatization for In Vivo Raman Spectroscopy Jirsa T., Janstová D., Tomeš J., Vrba J., Setnička V., Mareš J.
10:00	Approximate Full Adders Design for Energy Efficiency using CNTFETs Avireni S., Musala S.
10:20	Design of Low Voltage & Power Digital Delay Locked Loop in 65nm CMOS Technology Nisar K., Ahmad H., Bhatti M., Ali B., Kazmi Z.
10:40	Appropriate placement of electrodes for ECG measurements in military and police force Leová L., Volf P., Sokol M., Hejda J., Hýbl J., Kutílek P.
11:00	Measuring the Acceleration of Bulletproof Vests: Testing and Biomedical Limits Leová L., Kutílek P., Hýbl J., Volf P., Hejda J., Sokol M., Vítek R., Křivánek V.

Room A – Schedule [Applied Electronics 2024]

Applied electronic systems – II

11:30	Design of Resistance to Frequency Converter for Gas Sensing Applications Gergely T., Arbet D., Kováč M., Stopjaková V.
11:50	Aspects of EMI/EMC due to Randomness in the Electronic Circuit and the PCB Teodorescu H., Teodorescu M.
12:10	Bandpass Single-ended to Differential Converter Based on All-Pass Filter Delay Cell Michal V.
12:30	Critical Analysis of Bulk Current Injection (BCI) Testing Methods Gabrišák M., Hallon J., Bittera M.

Room A – Schedule [Applied Electronics 2024]

Applied electronic systems – II

12:50	Compact Microstrip Balanced Bandpass Filter with Stepped Impedance Resonator for Wireless Application Lotfi S., Roshani s., Blecha T., Rameh R., Roshani S.
13:10	Design of a Dual-Band Power Divider with Ultra-Wide Suppression Band using Triple Tapered Resonators Lotfi S., Karimi S., Blecha T., Mohamadpour G.
13:30	Enhancing GNSS Software Receiver Robustness Against Jamming with Kalman Filter Predictions Peřina S., Bajer J., Bojda P.
13:50	Negative Capacitance Analysis of a Statistically Significant Sample of Discrete Diodes Venter J.

Room B
[Applied Electronics 2024]
Schedule – Overview

09:00 – 09:20	please join Room A: Opening speech
09:20 – 11:20	Electronics in Industry – I
11:20 – 11:30	Coffee break
11:30 – 13:30	Electronics in Industry – II

Room B – Schedule [Applied Electronics 2024]

Electronics in Industry – I

09:20	AMBEATion: New Algorithm for Generation IC Matched Structures with Respecting Linear and Non-linear Gradient Parameter Effects Dalibor B.
09:40	Analyzing Threat Modeling Approaches Kraust S., Mottok J.
10:00	Design of A High Misalignment Tolerant Wireless Power System Using Variable DC link Voltage Yenil V.
10:20	Design of A Wireless Power Transfer System for Constant Output Voltage Against Misalignment Yenil V.
10:40	Edge Device Model for LoRaWAN Sensors duplexing Bubeníková E., Peniak P., Kanáliková A., Holečko P., Kekelák J.
11:00	Objects Alignment in Point Cloud data for 3D Scanner Coordinate System based on Radon Transform Dobrovolný M.

Room B – Schedule [Applied Electronics 2024]

Electronics in Industry – II

11:30	From Documentation to Automatic IPs Generation and Validation Ibala S., Tan Lee C.
11:50	Independent Light Source Control Using Wi-Fi to DALI Gateways Douda P., Havlík J., Maierová L.
12:10	On the relation between the accelerometer and the gyroscope measurements Mischie S., Matiu-Iovan L.
12:30	Power Management of Timepix3 Measurement Chain Růžička O., Kulhánek T., Burian P., Farkaš M., Urban O.
12:50	Testing Strength Based on the Principle of Robotic Arm Wrestling Bubeníková E., Hrbček J., Ždánky J., Nemeč D.
13:10	Transition analysis during phase change of excitation signal of narrowband ultrasonic transducers Málek O., Bajer J., Janů P.