

1. Record Nr.	UNINA9910768477403321
Autore	Ciofi Carmine
Titolo	Proceedings of SIE 2023 [[electronic resource]] : 54th Annual Meeting of the Italian Electronics Society // edited by Carmine Ciofi, Ernesto Limiti
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-48711-7
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (469 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1113
Altri autori (Persone)	LimitiErnesto
Disciplina	621.3815
Soggetti	Electronic circuits Electronics Materials Detectors Optoelectronic devices Solid state physics Electronic Circuits and Systems Electronics and Microelectronics, Instrumentation Sensors and biosensors Optoelectronic Devices Electronic Devices
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	A Binary Pattern Matching Task Performed in an EPCM-based Analog In-memory Computing Unit.-Carry-chain Based Ring Oscillator for FPGA: Design and Characterization -- Design and Analysis of a Voltage Schmitt Trigger in 4H-SiC CMOS Technology -- Nonlinear Adaptive Biasing for Low-voltage Class-AB OTAS -- An Ultra Low Voltage Physical Unclonable Function Exploiting Body-driven Feedback -- Accelerating Quantized DNN Layers on RISC-V with a STAR MAC Unit -- Design of a 1st-order Continuous-time Sigma-delta Modulator with a Digital-based Floating-inverter Integrator -- Towards Analog Neural Networks Integrated in Detectors Readout -- Printable Thermoelectric Device for Low Temperature Energy Harvesting -- Validation of

Thermometer-based Techniques to Experimentally Extract the Impact of Nonlinear Thermal Effects on the Thermal Resistance of Bipolar Transistors -- Characterization of Discrete PIN Diode for TR Limiter Design at X-band -- Multibias TCAD Analysis of Trap Dynamics in GaN HEMTs -- Exploiting Millimeter-wave Radars to Enable Accurate Gesture Recognition for the Metaverse Environment -- A Ka-band Ultra-low Power GAAS MMIC LNA -- Key-components for Ultra-low DC Power Gallium Nitride Low-noise Receivers.

Sommario/riassunto

This book showcases the state of the art in the field of electronics, as presented by researchers and engineers at the 54th Annual Meeting of the Italian Electronics Society (SIE), held in Noto (SR), Italy, on September 6–8, 2023. It covers a broad range of aspects, including: integrated circuits and systems, micro- and nano-electronic devices, microwave electronics, sensors and microsystems, optoelectronics and photonics, power electronics, electronic systems and applications.
