

MOCASST 2023
28-30 June, ATHENS – GREECE
Brief Program (tentative)
 (Greek summer time or GMT+3)

Wednesday, 28 June 2023

08:20 – 09:00	Registration	
09:00 – 09:30	Opening	
09:30 – 11:00	Session A1 <i>Analog R/F and mixed signal Circuits</i> Chair: Costas Psychalinos Papers to be presented: 14, 26, 41, 73	Session B1 <i>ML in Communications</i> Chair: Alberto Garcia-Ortiz Papers to be presented: 12, 18, 63, 80
11:00 – 11:30	Coffee Break	
11:30 – 12:30	Plenary 1 Some insights on the implementation of the smart EM environment – Scenarios, Architectures, Devices and Planning Speaker: Andrea Massa Chair: Sotirios Goudos	
12:30 – 14:00	Lunch Break	
14:00 – 15:00	Plenary 2 Edge of Chaos theory of Sheds Light into the emergence of a fundamental bifurcation phenomenon in neuronal axon membranes Speaker: Alon Ascoli Chair: Ioannis Vourkas	
15:00 – 15:30	Coffee Break + Poster Session	
15:30 – 16:30	Poster Session 1 <i>Analog and digital circuits</i> Chair: Efstathios Kyriakis-Bitaros Papers to be presented: 5, 6, 13, 24, 27, 47, 68, 75, 79, 82, 83, 86, 88, 89, 96, 97, 106, 107, 108, 109	
16:30 – 18:20	Session A2 <i>Circuit design aspects</i> Chair: Georgios Sirakoulis Papers to be presented: 19, 46, 56, 57, 69	Session B2 <i>Special Session: Complementary aspects ...</i> Chair: Zaharias Zaharis Papers to be presented: 33, 120, 121, 122, 123

Thursday, 29 June 2023

08:40 – 09:00	Registration	
09:00 – 11:00	Session A3 <i>Workshop on TIPP – Detector electronics</i> Chair: Kostas Kordas <i>Invited talks: Spiros Tzamaras, Massimo Corradi</i> <i>Papers to be presented: 119, 124</i>	Session B3 <i>Session: Communication Systems</i> Chairs: Maria Papadopoulou, Achilles Boursianis Papers to be presented: 25, 44, 48, 62, 87
11:00 – 11:30	Coffee Break	
11:30 – 12:30	Plenary 3 Hybrid pixel detectors: from the discovery of the Higgs Boson to advances in medical imaging Speaker: Michael Campbell Chair: Kostas Kloukinas	
12:30 – 13:30	Session A3b <i>Workshop on TIPP – Triggering & DAQ</i> Chair: Aikaterini Zachariadou <i>Invited talks: Ricardo Vari</i> <i>Papers to be presented: 118</i>	Poster Session 2 <i>Communication systems</i> Chair: Spiros Nikolaidis Papers to be presented: 10, 17, 21, 38, 49, 50, 53, 58, 60, 67, 71, 72, 81, 94, 112, 113
13:30 – 14:45	Lunch Break	
14:45 – 16:35	Session A4 <i>Workshop on TIPP – Front ends, ROC</i> Chair: Efstathios Kyriakis-Bitzaros <i>Invited talks: Kostas Kloukinas, Tiehui Ted Liu</i> <i>Papers to be presented: 125, 20</i>	Session B4 <i>Special Session: Novel theoretical and practical developments</i> Chair: Alon Ascoli Papers to be presented: 9, 16, 37, 42, 51
16:35 – 17:00	Coffee Break	
17:00 – 18:50	Session A5 <i>Workshop on TIPP – Accelerators</i> Chair: Aikaterini Zachariadou <i>Invited talks: Yannis Papaphilippou, Christos Zamantzas</i>	Session B5 <i>Special Session: Novel theoretical and practical developments</i> Chair: Alon Ascoli Papers to be presented: 117, 98, 104, 110, 116

Conference Dinner: 20:45

Friday, 30 June

09:10 – 09:30	Registration	
09:30 – 10:30	Plenary 4 How to program a memristor for high frequency inputs? Speaker: Ronald Tetzlaff Chair: Alon Ascoli	
10:30 – 11:00	Coffee Break	
11:00 – 12:50	Session A6 <i>Applications and power management</i> Chairs: Stelios Mitilneos, Alkis Hatzopoulos Papers to be presented: 8, 74, 76, 93, 111	
12:50 – 14:00	Lunch Break	
14:00 – 15:00	Poster Session 3 <i>Modeling, Systems and ML applications</i> Chair: Sotiria Galata Papers to be presented: 3, 7, 23, 31, 32, 34, 39, 54, 59, 64, 66, 70, 85, 90, 92, 95, 102, 103	
15:00 – 15:20	Coffee Break	
15:20 – 16:50	Session A7 <i>Digital circuits</i> Chair: Minas Dasygenis Papers to be presented: 22, 36, 77, 91	Session B7 <i>Special Session: ML applications</i> Chair: Sotirios Goudos Papers to be presented: 43,35, 45, invited talk
16:50 – 17:10	Awards – Closing Ceremony	

Colored brown: Poster presentation

Bold: Candidate for award in Electronics

Bold: Candidate for award in Communications

Bold: Candidate for student award

#	Authors	Title
3	Che-Peng Chao and Kun-Long Chen	Novel Environmental Magnetic Field Measurement Using A Drone
5	Ke-Chiao Chou, Chun-Hung Lin and Ching-Yuan Yang	A 30-GHz Frequency Doubler Using a Current Folding Technique in 90-nm CMOS Technology
6	Seyed Salar Sefati and Simona Halunga	Service recommendation for a group of users on the Internet of things using the most popular service
7	Binjin Chen, Meng Wang, Yawu Su, Zhiguo Shao, Ligang Qi and Huiqin Yao	Research and Practice of Automatic Identification Method for Construction Materials based on Deep Learning
8	Michail Dakanalis, Iason Kalaitzakis, Ioannis Roditis, Eftichios Koutroulis, Fotios Kanellos and Eleftheria Sergaki	Real-time Energy Management System for a Multiport DC/AC Inverter
9	Massimiliano Di Ventra	Brain-like features of MemComputing machines
10	Katherine Siakavara and Georgios Korompilis	Synthesis of Ultra-Wideband Rectenna for RF Energy Harvesting From Wireless Communications Networks
12	Daniel Rodriguez Prado, Jesús A. López-Fernández and Manuel Arrebola	Machine Learning-Based Surrogate Modelling of Reflectarray Unit Cell in a 4-D Parallelootope-Shaped Domain
13	Vasileios Kalenteridis, Spyridon Vlassis, Orfeas Panetas-Felouris and Konstantinos Panagiotis Pagkalos	A CMOS VCO ring oscillator suitable for wide supply range applications
14	Julia Nako, Costas Psychalinos and Ahmed Elwakil	Modified Pre-Processing Stage for Improving the Noise Immunity of the Pan-Tompkins Algorithm
16	Angela Slavova and Ventsislav Ignatov	Cellular Nonlinear Network Circuit Model with Application to Seizures Prediction
17	Charalampos Stoumpos, Thierry Le Gougec, Rozenn Allanic, Maria Garcia-Vigueras, Sarra Abedrabba, Erwan Fourn, Thomas Merlet and Anne-Charlotte Amiaud	On the Additive Manufacturing of Conformal Slotted Waveguide Antennas
18	Jianghan Bao, Wen Ming Yu, Tie Jun Cui and Che Liu	Programmable Metasurface-Based Beam Forming by Physics-Driven Deep Learning Network
19	Giorgos Dimitrakopoulos, Emmanouil Kallitsounakis, Zacharias Takakis, Apostolos Stefanidis and Chrysostomos Nicopoulos	Multi-Armed Bandits for Autonomous Test Application in RISC-V Processor Verification
20	Konstantinos Axiotis and Simone Sottocornola	Data Preparation And Optimization For Real Time Track Reconstruction On The ATLAS HTT PRM Board

21	Mobina Mobaraki, Anushree Bannadabhavi, Matthew J. Yedlin and Bhushan Gopaluni	A Vision-based Deep Learning Platform for Human Motor Activity Recognition
22	Eslam Abdelbary, Mohamed Sharaf and Hassan Mostafa	Efficient ASIC Implementation for Satellite-IoT Security Co-processor
23	Amir Hossein Barjini and Hamed Moradi	Design and simulation of a classic controller to reduce undesired coupling axial and torsional vibrations in a horizontal drill string
24	Valeri Mladenov and Stoyan Kirilov	An Improved Memristor Model and Applications
25	Anastasios Politis, Hristos Anastassiou and Constantinos Hilaris	A Game Theoretic Approach to Enhance DCF's Performance in Full Duplex Ad-hoc WLANs
26	Xiaowei Wang, Zhiqun Li, Hao Yuan, Jiancong Du and Zhennan Li	An Integrated LNA and SPDT Switch with a Notch Filter in 65-nm SOI CMOS Technology
27	Jiancong Du, Zhiqun Li and Zhennan Li	A 2.4 GHz Doherty Power Amplifier Based on Voltage Combining in 22 nm CMOS
31	Aikaterini Griva, Vasileios Rekkas, Kyriakos Koritsoglou, Sotirios Sotiroidis, Achilles Boursianis, Maria Papadopoulou and Sotirios Goudos	Energy Consumption Assessment in Refrigeration Equipment: The SmartFridge Project
32	Aikaterini Griva, Achilles Boursianis, Lazaros Iliadis, Panagiotis Sarigiannidis, George Karagiannidis and Sotirios Goudos	Model-Agnostic Meta-Learning Techniques: A State-of-The-Art Short Review
33	Ahmed M. Nor, Octavian Fratu and Simona Viorica Halunga	The Human Blockage Impact on ARIS Assisted D2D Communication Systems
34	Nikolaos Tsakatanis, Lazaros Alexios Iliadis, Achilles Boursianis, Kostas Kokkinidis, Georgios Patronas, Pavlos Serafeim, Maria Papadopoulou and Sotirios Goudos	Greek Orthodox Church Hymns Recognition Using Deep Learning Techniques
35	George Vergos, Lazaros Alexios Iliadis, Paraskevi Kritopoulou, Achilleas Papatheodorou, Achilles Boursianis, Kostas Kokkinidis, Maria Papadopoulou and Sotirios Goudos	Ensemble Learning Technique for Artificial Intelligence Assisted IVF Applications
36	Kyriaki Tsantikidou and Nicolas Sklavos	Minimal Resource Required E-Health System with End-to-End Authenticated Encryption Mechanism
37	Richard Schroedter, Ahmet Samil Demirkol, Alon Ascoli, Benjamin Max, Florian Nebe, Thomas Mikolajick and Ronald Tetzlaff	A pseudo-memcapacitive neurotransistor for spiking neural networks
38	Kyriakos Manganaris, Fotis Lazarakis and Kostas Peppas	Using Fulkerson-Ford Algorithm for UE - AP Association in mmWave Cellular Networks

39	Lazaros Laskaridis, Christos Volos, Ioannis Stouboulos and Ioannis P. Antoniadis	A Discrete Memristive Hyperchaotic Map with a Modulo Function
41	Ioannis Dimitrios Psycharis and Grigorios Kalivas	A 80 GHz VCO using Transformer Based Frequency Doubler
42	Ahmet Samil Demirkol, Ioannis Messaris, Alon Ascoli and Ronald Tetzlaff	DC Characterization of Numerically Efficient and Stable Locally Active Device Models
43	Alessandro Polo, Federico Capra, Samantha Lusa, Paolo Rocca, Aarón Ángel Salas-Sánchez and Marco Salucci	Machine Learning-based Inversion of Wireless Signals for Real-Time Gesture Recognition
44	Federico Capra, Federico Albi, Arianna Benoni, Danilo Erricolo, Giacomo Oliveri, Paolo Rocca, Marco Salucci, Shiwen Yang and Andrea Massa	Smart Electromagnetic Environments Empowering Future Communication Systems: A Real-World Indoor Experimental Validation
45	Luca Tosi, Francesco Zardi, Marco Salucci and Andrea Massa	On the Exploitation of Time-Space Priors for AI-Assisted Biomedical Imaging and Follow-Up
46	Lazaros Moysis, Marcin Lawnik, Murilo S. Baptista, Sotirios Goudos and Christos Volos	Construction of Piecewise Chaotic Maps With Tunable Statistical Mean
47	Georgios Gennis, Argyro Kamperi, Vassilis Alimisis, Christos Dimas and Paul P. Sotiriadis	An Area-Efficient, Analog Integrated Image Edge Detector based on the Robert's Cross Operator
48	Konstantinos Psychogios, Nektarios Moraitis and Athanasios Panagopoulos	MIMO Channel Measurements in a Tree Covered Urban Environment for Low-Altitude UAVs
49	Evangelos Vassos, Panagiotis Ioannis Theoharis, Savvas Chalkidis, Faisal Tubbal, Raad Raad and Alexandros Feresidis	A Comparative Study of a Reflectarray Antenna Based on Optical Transparent Materials
50	Bishoy Sharobim, Salwa Abd-El-Hafiz and Ahmed Radwan	Progressive Multi-Secret Sharing of Color Images Using Lorenz Chaotic System
51	John Reuben, Dietmar Fey and Stefan Slesazek	A Reference-less Sense Amplifier to Sense pA Currents in Ferroelectric Tunnel Junction Memories
53	Alexandros Sakkas, Vasilis Christofilakis, Giorgos Tatsis, Giorgos Baldoumas, Evangelos Evangelou and Hector Nistazakis	A portable RF signal attenuation testbed
54	Lazaros Moysis, Lazaros Alexios Iliadis, Sotirios P. Sotiroudis, Kostas Kokkinidis, Panagiotis Sarigiannidis, Spiridon Nikolaidis, Christos Volos, Achilles D. Boursianis, Dimitrios Babas, Maria S. Papadopoulou and Sotirios K. Goudos	The Challenges of Music Deep Learning for Traditional Music
56	David Chatzichristodoulou, Michalis Yiannakou, Dimitris Anagnostou, Symeon Nikolaou and Photos Vryonides	A Wide Tuning Range Bandpass Filter Using Unequal Width Parallel-Coupled Dual- Mode Resonator

57	Georgios Chararas, Athanasios Stefanou, Alkiviadis Hatzopoulos and Vasilis Pavlidis	A Novel Design Methodology for Modular, Digitally Controlled, Multiband, mmWave LNAs
58	Andrea Galliani, Luigi Gaioni and Gianluca Traversi	DAQ system for the readout of a flash-ADC based front-end channel matrix
59	Theodora Sanida, Maria Vasiliki Sanida, Argyrios Sideris and Minas Dasygenis	A Lightweight CNN Model for Tomato Crop Diseases on Heterogeneous Embedded System
60	Ioannis Kafetzis, Christos Volos, Hector Nistazakis, Sotirios Goudos and Nikolaos Bardis	A Real-time Chaos-based Audio Encryption Scheme
62	Georgios Varotsos, Hector E. Nistazakis, Efstratios Kapotis, Efstratios Chatzikontis, Konstantinos Aidinis and Christos Volos	ABER Estimation of NLOS UV Links with Time Diversity over K-Turbulent Channels and Path Loss
63	Antonios Lionis, Peppas Konstantinos, Andreas Tsigkopoulos, Hector E. Nistazakis, Keith Cohn and Kyle R. Drexler	Supervised Machine Learning for Refractive Index Structure Parameter Modeling
64	Takahiro Natori and Naoyuki Aikawa	Study on Calibration Method using Pseudo Acceleration for MEMS Accelerometers
66	Emil Hristov, Rodrigo Picos, Carol de Benito, Stavros G. Stavrinides, Tolga Arul, Nikolaos A. Anagnostopoulos and Mohamad Moner Al Chawa	Implementation of a Physically Unclonable Function using LEDs and LDRs
67	P.J. Gripiaios, Hector E. Nistazakis, Evgenia Roditi, Efstratios Kapotis, Christos Volos and Vasilis Christofilakis	Divergent Gaussian Beams of FSO Links with Power Losses and Pointing Errors
68	Konstantinos Panagiotis Pagkalos, Orfeas Panetas-Felouris, Vasileios Kalenteridis and Spyridon Vlassis	Analog Latch for Time-Mode PWM Signal Processing
69	Christina Dilopoulou and Yiorgos Tsiatouhas	BTI Aging Influence and Mitigation in Neural Networks Oriented In-Memory Computing SRAMs
70	Vasileios Samaras, Konstantinos Tatas and Antonios Lontos	A Low-Cost Real-Time Cyber Physical System for Overcoming Excess Braking Issues In Race Cars
71	Konstantinos-Filippos Kollias, Luis Silva, Christine Syriopoulou-Delli, Panagiotis Sarigiannidis and George Fragulis	Implementation of Robots in Autism Spectrum Disorder Research: Diagnosis and Emotion Recognition and Expression
72	Dimitris Uzunidis, Evangelos Margaritis, Christos Chatzigeorgiou, Charalampos Patrikakis and Stelios Mitilineos	A Dataset for Aftermath Victim Detection Behind Walls or Obstacles Using an UWB Radar Sensor
73	Linlin Huang, Junhui Li, Xupeng Jiang and Jianhui Wu	A 2.1-fJ/Conversion-Step 10-bit 125-KS/s SAR ADC with Vcm-based Bidirectional Single-side Switching Scheme

74	Dimitris Uzunidis, Dimitris Liapis, Panagiotis Kasnesis, Christos Ferles, Evangelos Margaritis, Charalampos Patrikakis, Georgios Tzanis, Simos Symeonidis and Stelios Mitilineos	APNIWAVE: An Efficient Radar-Based Sleep-Apnea Screening Device for Use at Home
75	Christodoulos Peltekis, Dionysios Filippas, Giorgos Dimitrakopoulos and Chrysostomos Nicopoulos	Low-Power Data Streaming in Systolic Arrays with Bus-Invert Coding and Zero-Value Clock Gating
76	Nick Rigogiannis, Ioannis Roussos, Christos Pechlivanis, Ioannis Bogatsis, Anastasios Kyritsis, Nick Papanikolaou and Michael Loupis	Design Considerations of an LLC Converter for TEG-based WHR Systems in Shipboard Microgrids
77	Symeon Fountoukidis, Nick Rigogiannis, Nick Papanikolaou and Michael Loupis	Digital Implementation of I2t Protection Scheme by means of Solid-State Devices
79	Evangelos Skoubris and George Hloupis	An ultra low-power and low-cost IoT node with LoRa/LTE/GPRS connectivity
80	Fin Hendrik Bahnsen, Bernhard J. Berger and Goerschwin Fey	GLRP: Guided by Layer-wise Relevance Propagation – Selecting Crucial Neurons in Artificial Neural Networks
81	P.J. Gripiaios, Hector E. Nistazakis, Efstratios Kapotis, Efstratios Chatzikontis, A. Katsis and Vasilis Christofilakis	Numerical Validation of Analytical Results for FSO Links with Chromatic Dispersion and Normally Distributed Time Jitter
82	Sahitya Yarragolla, Torben Hemke and Thomas Mussenbrock	A generic compact and stochastic model for non-filamentary analog resistive switching devices
83	Vassilis Vassios, Argirios Hatzopoulos and Dimitrios Papakostas	Fault Detection of Analog Circuits by utilizing the Fundamental RMS of the Supply Current Fluctuation
85	Alexandros Moraitopoulos, Konstantinos Mitsopoulos, Christina Kemanetzi, Elisabeth Lazaridou, Alexandros Astaras and Panagiotis Bamidis	A novel dermatological diagnosis support device based on Electrical Impedance Spectroscopy (DermaSense)
86	Sebastian Fischer, Amir Najafi and Alberto Garcia-Ortiz	Wave-Pipelined Source-Synchronous Circuit-Switched Data Transmission
87	Stamatios Amanatiadis, Vasileios Salonikios, Nikolaos Kantartzis and Traianos Yioultsis	Periodic Magnetically-biased Graphene Gratings for Effective Transmission Enhancement and Polarization Selective Features
88	Konstantinos Tatas and Michalis Gemenaris	High-Performance and Low-Cost Approximation of ANN Sigmoid Activation Functions on FPGAs
89	Evangelos Tsipas, Emmanouil Stavroulakis, Ioannis Chatzipaschalis, Konstantinos Rallis, Nikolaos Vasileiadis, Panagiotis Dimitrakis, Athanasios Kostopoulos, George Konstantinidis and Georgios Sirakoulis	Modeling of memristor-based RF switches
90	H. J. Contreras-Mendoza, J. M. Munoz-Pacheco, F. E. Serrano-Moncada, R. Torrealba-Melendez and C. Volos	A Fractional Order Tumor Growth Model and Its Synchronization

91	Aimilios Leftheriotis, Aphrodite Tzomaka, Dimitrios Danopoulos, George Lentaris, George Theodoridis and Dimitrios Soudris	Evaluating Versal ACAP and conventional FPGA platforms for AI inference
92	Arsenios Arsenidis, Alexandros Moraitopoulos, Alkinoos Athanasiou, Panagiotis Bamidis, Petros Stefaneas and Alexander Astaras	A novel electrical muscle stimulation device for neurorehabilitation applications with adaptable parameter optimization using AI algorithms
93	Ardalan Najafi, Wanli Yu, Yarib Nevarez, Amir Najafi, Andreas Beering, Karl-Ludwig Krieger and Alberto Garcia-Ortiz	Acoustic Emission Source Localization using Approximate Discrete Wavelet Transform
94	George Tsoulos, Georgia Athanasiadou, George Nikitopoulos and Vassilios Tsoulos	Non-standalone (NSA) 5G system measurements
95	Antonios Chatzisavvas, Malamati Louta and Minas Dasygenis	Implementation of Agricultural Path Planning with Unmanned Ground Vehicles (UGV) based on Enhanced A* Algorithm
96	Alessandro Andreani, Luca Frontini, Valentino Liberali, Alberto Stabile and Valeria Trabattoni	Modelling and Verification of MOS Transistors at Cryogenic Temperature
97	Athanasios Xynos and Vasileios Tenentes	MetaSPICE: Metaprogramming SPICE Framework for the Design Space Exploration of PUF Circuits
98	Amir Najafi, David Rotermund, Ardalan Najafi, Klaus R. Pawelzik and Alberto Garcia-Ortiz	Empirical Analysis of Full-System Approximation on Non-Spiking and Spiking Neural Networks
102	Fotis Koumboulis and Nikolaos Kouvakas	Delayless Controllers for Exact Model Matching and Disturbance Rejection of Time Delay Systems with Measurable and Non-measurable Disturbances
103	Ardalan Najafi, Amir Najafi, Julia Müller, Wanli Yu and Alberto Garcia-Ortiz	Approximate Computing in Critical Applications: ECG Arrhythmia Classification
104	András Horváth, Alon Ascoli and Ronald Tetzlaff	Implementation of the XOR gate with two memristive cells
106	Konstantinos Moustakas, Vasiliki Gogolou, Thomas Noulis, Dimitrios Tassis and Stylianos Siskos	A CMOS Threshold Voltage Monitoring Sensor
107	Vasiliki Gogolou, Thomas Noulis and Jochen Dingfelder	CMOS Folded-Cascode versus Inverter-based CSA towards Noise Performance and Speed
108	Orfeas Panetas-Felouris, Konstantinos Panagiotis Pagkalos, Spyridon Vlassis and Vasileios Kalenteridis	Digital to Pulse-Width Converter for Time-Mode PWM signal processing
109	Nikolaos Papanikolaou, Nikolaos Tzanis, Eleftherios Mylonas, Michael Birbas and Alexios Birbas	Hardware Accelerators based on wavelets for detection of Transient phenomena in smart grids

110	Juan Riquelme, Matias Melivilu, Ioannis Vourkas and Albert Cirera	RevI-Ve: A Comprehensive Software Interface for Easy ReRAM Device Characterization
111	Ricardo Mardones, Ioannis Vourkas and Georgios Sirakoulis	HW Implementation of Cellular Automata Models Supporting AgriFood Quality Control Processes
112	George Amponis, Panagiotis Radoglou Grammatikis, George Nakas, Sotirios Goudos, Vasileios Argyriou, Thomas Lagkas and Panagiotis Sarigiannidis	5G Core PFCP Intrusion Detection Dataset
113	Ilias Siniosoglou, Konstantinos Xouveroudis, Vasileios Argyriou, Thomas Lagkas, Sotirios Goudos, Konstantinos Psannis and Panagiotis Sarigiannidis	Evaluating the Effect of Volatile Federated Timeseries on Modern DNNs: Attention over Long/Short Memory
116	Alon Ascoli, Nicolas Schmitt, Ioannis Messaris, Ahmet Samil Demirkol, Vasilis Ntinis, Dimitris Prousalis, Spiros Nikolaidis, Ronald Tetzlaff, Stephan Menzel and Vikas Rana	Exploration of Bistable Oscillatory Dynamics in a Memristor from Forschungszentrum Jülich
117	Muhammad Adil Malik, Andrea Mifsud, Abdulaziz Alshaya and Christos Papavassiliou	The Design of a Resistive Switching Characterisation Platform Based on Discrete Current-Conveyors
118	Andreas Vgenopoulos, Riccardo Vari, Federico Lasagni, Kostas Kordas and Alessandro Polini	The ATLAS RPC-BIS78 Readout and Trigger System
119	Dimitrios Sampsonidis, Dimitra Amperiadou, Charikleia Petridou, Spyridon Tzamarias, Konstantinos Kordas, Christos Lampoudis, Antonis Leisos, Apostolos Tsirigotis, Christos Tsiafis and Spyridon Kompogiannis	Muon Tomography Application with Micromegas Detectors
120	Haya Al Kassir, Ioannis Rekanos, Pavlos Lazaridis, Traianos Yioultsis, Nikolaos Kantartzis, Christos Antonopoulos, George Karagiannidis and Zaharias Zaharis	DOA Estimation for 6G Communication Systems
121	Ioannis Mallioras, Traianos Yioultsis, Nikolaos Kantartzis, Pavlos Lazaridis and Zaharias Zaharis	3D adaptive beamforming approach with a fine-tuned Deep Neural Network
122	Moatasim Mahmoud, Stamatia Rizou, Andreas Panayides, Pavlos Lazaridis, Nikolaos Kantartzis, George Karagiannidis and Zaharias Zaharis	A Review of Deep Learning Solutions in 360° Video Streaming
123	Pablo Zapata Cano, Stamatios Amanatiadis, Nikolaos Kantartzis, Pavlos Lazaridis, Traianos Yioultsis and Zaharias Zaharis	FDTD modeling of graphene-based materials and its application in sensing devices
124	Foteini Kolitsi, Theodoros Alexopoulos, Valerio D'Amico, Francesco Fallavollita, Ralf Hertenberger, George Iakovidis, Nikolaos Kanellos, Chara Kitsaki, Spyridon Kompogiannis, Efsthios Kyriakis-Bitaros, Ioannis Mesolongitis, Givi	Performance of MicroMegas Electronics in a High-Radiation Environment

	Sekhniadze, Fabian Vogel and Katerina Zachariadou	
125	Marco Andorno, Alessandro Caratelli, Davide Ceresa, Jashandeep Dhaliwal, Kostas Kloukinas, Anvesh Nookala and Risto Pejasinovic	Radiation-Tolerant SoC and Application-Specific Processors for On-Detector Programmability and Data Processing in Future High-Energy Physics Experiments