JAC-ECC 2023
Technical Program

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JAC-ECC2023 Conference Program
(At-A-Glance)

Day 1: Monday, December 18, 2023

Times	Activity\Session		
9:00 – 10:00	**Registration and Reception**		
10:00 – 10:35	**Opening Session** Hosts by: Prof. Maha Elsabrouty, E-JUST, Egypt **Room:** E-JUST Campus (Prof. Abo-Ismail Theater) 10:00 – 10:05 — National Anthems of Egypt and Japan 10:05 – 10:10 — Prof. Haruichi Kanaya, Conference Co-Chair, Kyushu University, Japan 10:10 – 10:15 — Prof. Ahmed Hassan, Conference Co-Chair, EUI, Egypt 10:15 – 10:20 — Prof. Adel B. Abdelrahman, Conference Chair, E-JUST, Egypt 10:20 – 10:25 — Prof. Toshio Fukuda, IEEE Fellow, E-JUST Vice President of Research 10:25 – 10:30 — Prof. Reem Bahgat, EUI President 10:30 – 10:35 — Prof. Amr Adly, IEEE Fellow, E-JUST President		
10:35 – 11:20	**Keynote Session 1** **Room:** E-JUST Campus (Prof. Abo-Ismail Theater) **Chairs:** Prof. Maha Elsabrouty, E-JUST, Egypt, and Prof. Osamu Muta, Kyushu University, Japan **Keynote #1: Prof. Eiji Okamoto, Nagoya Institute of Technology, Japan** **"Overview of Non-Terrestrial Network Utilization in 6G"**		
11:20 – 12:15	**Coffee Break**		
12:15 – 13:00	**Keynote Session 2** **Room:** E-JUST Campus (Prof. Abo-Ismail Theater) **Chairs:** Prof. Haruichi Kanaya, Kyushu University, Japan and Prof. Adel B. Abdelrahman, E-JUST, Egyp **Keynote #2: Manuel Vázquez, IEEE Fellow, Institute of Materials Science of Madrid, Consejo Superior de Investigaciones Científicas, Spain** **"Cylindrical Micro- and Nanowires: From Curvature Effects on Magnetization to Sensing Applications"**		
13:00 – 13:45	**Keynote Session 3** **Room:** E-JUST Campus (Prof. Abo-Ismail Theater) **Chairs:** Prof. Tanemasa Asano, Kyushu University, Japan, and Prof. Mohamed S. Sayed, E-JUST, Egypt **Keynote #3: Prof. Masaaki Kuzuhara, IEEE Fellow, Kwansei Gakuin University, Japan** **"Gallium Nitride (GaN) High-Electron-Mobility Transistors (HEMTs) for High-Voltage Power Applications with Enhanced Efficiency"**		
13:45 – 14:15	**Invited Session 1** **Room:** E-JUST Campus (Prof. Abo-Ismail Theater) **Chairs:** Prof. Mohammed Abo-Zahhad, E-JUST, Egypt, Dr. Sherif Hashima, RIKEN-AIP, Japan **Invited Speaker #1: Eng. Bassem Boshra, CEO and Founder of SpimeSenseLabs** **"IoT Technology Trends and Impact on Job Profiles"**		
14:15 – 15:00	**Lunch Break**		
15:00 – 16:30	**Technical Session #1** **Selected Topics in Microwave and Antennas** **Room: 206**	**Technical Session #2** **Selected Topics in Signal, Image, and Video Processing Room:** **Prof. Abo-Ismail Theater**	**UG PBL Competition Assessment**

Times	Activity\Session				
16:30 – 18:00	**Technical Session #3 Selected Topics in Microwave and Antennas Room: 201**	**Technical Session #4 Selected Topics in Artificial Intelligence Room: 203**	**Technical Session #5 Selected Topics in Communications Room: 204**	**Technical Session #6 Selected Topics in Internet of Things Room: 210**	**ITI Training Session "IoT Technology Trends for Smart Cities" Eng. Bassem Boshra, CEO and Founder of SpimeSenseLabs Room: Prof. Abo-Ismail Theater Chairs:** Prof. Mohamed S. Sayed, E-JUST, Egypt
18:00 – 19:00	**UG Ceremony** **Room:** E-JUST Campus (Prof. Abo-Ismail Theater)				

Day 2: Tuesday, December 19, 2023

Times	Activity\Session			
09:00– 10:00	**Registration and Reception**			
10:00 – 10:45	**Keynote Session 4** **Room:** E-JUST Campus (Prof. Abo-Ismail Theater) **Chairs:** Prof. Toshio Fukuda, IEEE Fellow, E-JUST, Egypt, Prof. Mohsen Ghaly, E-JUST, Egypt **Keynote #4: Prof. Tatsuya Yokotani, Kanazawa Institute of Technology, Japan** **"Relationship between Academic Research and Standardization"**			
10:45 – 11:30	**Keynote Session 5** **Room:** E-JUST Campus (Prof. Abo-Ismail Theater) **Chairs:** Prof. Elsayed Elrabie, Menoufia University, Egypt, and Prof. Osamu Muta, Kyushu University, Japan **Keynote #5: Dr. Sherief Hashima, RIKEN-AIP, Japan** **"Artificial Intelligence-aided Reconfigurable Intelligent Surface-aided 6G Networks"**			
11:30 – 12:15	**Coffee Break**			
12:15 – 13:00	**Keynote Session 6** **Room:** E-JUST Campus (Prof. Abo-Ismail Theater) **Chairs:** Prof. Walid Gomaa, E-JUST, Egypt, and Prof. Ahmed Fares, E-JUST, Egypt **Keynote #6: Prof. Amr Elmasry, Egypt University of Informatics, Egypt** **"New Trends in Graph Theoretic Algorithm"**			
13:00 – 13:30	**Sponsors Exhibitions**			
13:30 – 14:30	**Lunch Break**			
14:30 – 16:00	**Technical Session #7** **Selected Topics in** **Artificial Intelligence** **Room: 203**	**Technical Session #8** **Selected Topics in** **Communications** **Room: 204**	**Technical Session #9** **Selected Topics in** **Circuits and Systems** **Room: 201**	**Technical Session #10** **Selected Topics in** **Biomedical Eng.** **Room: 210**
16:00 – 16:15	**Coffee Break**			
16:15 – 17:45	**Technical Session #11** **Selected Topics in** **Artificial Intelligence** **Room: 203**	**Technical Session #12** **Selected Topics in** **Communications** **Room: 204**	**Technical Session #13** **Selected Topics in** **Circuits and Systems** **Room: 201**	**Technical Session #14** **Selected Topics in** **Biomedical Eng.** **Room: 210**

Day 3: Wednesday, December 20, 2023
Physical Attendance at EUI Campus (Auditorium)
(Zoomed to E-JUST: Library Theater)

Times	Activity\Session
09:00– 10:00	**Registration and Reception**
10:00 – 10:45	**Keynote Session 7** **Room:** EUI Campus (Auditorium) **Chairs: Prof.** Hoda Mokhtar, EUI, Egypt, and Prof. Mohamed El Sharkawy, EUI, Egypt **Keynote #7: Prof. Walid G. Aref, Purdue University, USA** **"On Location-Optimized Data Systems: Challenges and Opportunities"**
10:45 – 11:30	**Keynote Session 8** **Room:** EUI Campus (Auditorium) **Chairs:** Prof. Amr El-Sherif, EUI, Egypt, and Dr. Youssri Youssri, EUI, Egypt **Keynote #8: Dr. Hossam Osman, Ministry of Communication and Information Technology** **"Technology Innovation for Economic Growth"**
11:30 – 12:15	**Coffee Break**
12:15 – 13:00	**Keynote Session 9** **Room:** EUI Campus (Auditorium) **Chairs:** Prof. Hala Zayed, EUI, Egypt, and Dr. Nader Mansour, EUI, Egypt **Keynote #9: Prof. Alaa Sheta, Southern Connecticut State University, USA** **"Machine Learning in Sleep Medicine: A Focus on Obstructive Sleep Apnea"**
13:00 – 13:45	**Keynote Session 10** **Room:** EUI Campus (Auditorium) **Chairs:** Dr. Mohamed Taher, EUI, Egypt, and Dr. Basma Hassan, EUI, Egypt **Keynote #10: Dr. Ramy Ahmed Fathy, Chief Expert, NTRA, Egypt** **"Frameworks for Trustworthiness Evaluation; Towards a Trustworthy ICT"**
13:45 – 14:45	**Lunch Break**
14:45 – 15:30	**Invited Session 2** **Room:** EUI Campus (Auditorium) **Chairs:** Dr. Ramy Farouk, EUI, Egypt, and Dr. Mohamed Ismail, EUI, Egypt **Invited Speaker #2: Prof. Hesham Farouk, Ministry of Communication and Information Technology** **"Digital Egypt Builder Initiative (DEBI): Achievements and Future"**
15:30 – 16:15	**Keynote Session 11** **Room:** EUI Campus (Auditorium) **Chairs:** Prof. Amr El Masry, EUI, Egypt, and Prof. Iman Ashour, EUI, Egypt **Keynote #11: Prof. Mohamed Zahran, New York University, USA** **"Toward a New Era of Computer Architecture"**
16:15 – 17:00	**Closing Session**

OPENING SESSION

Day 1, December 18, 2023 Time: 10:00-10:45

Hosts by: Prof. Maha Elsabrouty, E-JUST, Egypt

Times	Activity
10:00– 10:05	**National Anthems of Egypt and Japan**
10:05 – 10:10	**Prof. Haruichi Kanaya, Conference Co-Chair, Kyushu University, Japan**
10:10 – 10:15	**Prof. Ahmed Hassan, Conference Co-Chair, EUI, Egypt**
10:15 – 10:20	**Prof. Adel B. Abdelrahman, Conference Chair, E-JUST, Egypt**
10:20 – 10:25	**Prof. Toshio Fukuda, IEEE Fellow, E-JUST Vice President of Research**
10:25 – 10:30	**Prof. Reem Bahgat, EUI President**
10:30 – 10:35	**Prof. Amr Adly, IEEE Fellow, E-JUST President**

TECHNICAL SESSION 1

Day 1, December 18, 2023 Time: 15:00-16:30

Selected Topics in Microwave and Antennas,   **Room: 206**

Chair: Prof. Saber Zainud-Deen, Menoufia University, Egypt, and Prof. Ahmed Allam, E-JUST, Egypt, and Dr. Anwer Sayed, Electronics Research Institute, Egypt

Order	Paper No.	Authors	Paper Title
1	99	Saber Zainud-Deen, Hend Malhat and Mona Badawy	Time-Modulated Linear Frequency Diverse Array for Multi-Target Detection
2	82	Tanemasa Asano, Hideaki Iwahori, Ahmed Allam, Osamu Muta, Haruichi Kanaya and Adel B. Abdel-Rahman	Experimental Study on Microwave Heating of Soil for Nematode Control
3	56	Yassmeen Afify, Ahmed Allam and Adel Bedair	Comparative Study of Lumped and Distributed-Element Matching Networks on Performance of 2.45 GHz Rectifier
4	65	Esraa Mansour, Mohamed I. Ahmed, Ahmed Allam, Ramesh K. Pokharel and Adel B. Abdel-Rahman	A Simulation Study on Triple-Square Complementary Split-Ring Resonator for Non-Invasive Blood and Aqueous Solutions Measurements
5	100	Shaymaa Gaber, Anas Zainud-Deen, Hend Malhat and Mona Badawy	Joint Communication Radar Systems Based on Time-Modulated Plasma-Based Intelligent Reflecting Surface

TECHNICAL SESSION 2

Day 1, December 18, 2023 Time: 15:00 - 16:30

Selected Topics in Signal, Image, and Video Processing,   **Room: Prof. Abo-Ismail Theater**

Chair: Prof. Mohammed Abo-Zahhad, E-JUST, Egypt, and Dr. Moataz Abdelwahab, E-JUST, Egypt

Order	Paper No.	Authors	Paper Title
1	113	Adel Abdel-Rahman, Ahmed Allam, Moataz Abdelwahab, Mostafa Elsharkawy, Bassam Kobasy, Habib Eltabakh and Omar Essam	A Smart Blind Stick with Object Detection, Obstacle Avoidance, and IoT Monitoring for Enhanced Navigation and Safety
2	108	Ali Waleed, Ibrahim Nezar, Amel Mohamed, El-Sayed El-Rabaie and Nariman Abdel-Salam	RDIFR: Robust Digital Image Forgery Recognition System for Image Splicing Using Deep Learning
3	57	Bassel Yasser, Amel Mohamed, El-Sayed El-Rabaie and Nariman Abdel-Salam	CBSB: Robust Cancelable Biometric System for Banks Using Deep Learning
4	29	Mohamed Abdu, Sahar Abdelrahman Ismail and Rania Ziedan	Machine Diagnosis by Anomalous Sound Detection Using AI Techniques
5	68	Mohammed S. Sayed, Mostafa Elsharkawy, Bassam Kobasy, and Habib Eltabakh	Enhancing Lane Detection for Autonomous Vehicles Using Image Processing and Real-Time Analysis

TECHNICAL SESSION 3

Day 1, December 18, 2023 Time: 16:30-18:00

Selected Topics in Microwave and Antennas,   Room: 201

Chair: Prof. Adel B. Abdelrahman, E-JUST, Egypt, and Prof. Hend Malhat, Menoufia University, Egypt
and Dr. Mohamed Ismail, Electronics Research Institute, Egypt

Order	Paper No.	Authors	Paper Title
1	78	Patrick Odong, Ahmed H. Abd El-Malek, Ahmed Allam, Asano Tanemasa and Adel B. Abdel-Rahman	Recharging Zero Energy Devices: Multi-Frequency RF Energy Harvesting Perspective
2	91	Hala Mohammed Elsayed, Anwer S. Abd El-Hameed, Ahmed Allam, Ramesh Pokharel and Adel Bedair Abdel-Rahman	Substrate Integrated Waveguide Sensor for Noninvasive Glucose Measurement
3	16	Kyrillos Youssef, Ahmed Abd El-Malek, Haruichi Kanaya and Mohammed Abo-Zahhad	Optimization of Coaxial Feed Position Selection and Exploitation of Metasurface to Improve Microstrip Antenna Radiation Performance
4	111	Mostafa Nassar, Rania Abdallah, Heba Soliman and Esmat Abdallah	Mutual Coupling Reduction Techniques for Dual Band MIMO Antenna

`TECHNICAL SESSION 4

Day 1, December 18, 2023   Time: 16:30-18:00

Selected Topics in Artificial Intelligence,   Room: 203

Chair: Prof. Ahmed Zaky, E-JUST, Egypt, and Prof. Samir Elsagheer, E-JUST, Egypt

Order	Paper No.	Authors	Paper Title
1	61	Kibitok Abraham, Moataz Abdelwahab and Mohammed Abo-Zahhad	Classification of Libya Floods and Morocco Earthquakes Using CNN-Based Deep Learning Models
2	4	Mohamed A. Khamis, Basem Galal and Walid Gomaa	Deep learning is Competing with Random forest in Computational Docking
3	84	Samir Elsagheer, Yara Atallah and Hassan Hashem	Enhancing Road Safety using the Internet of Vehicles: A Machine Learning-Based Collision Detection Approach
4	95	Mohamed Issa, Osama Abdelatif and Ibrahim Ziedan	Optimization of PID Controller Parameter Estimation using the Geometric Mean Optimizer
5	105	Abdelrahman Mahmoud, Youssef Mohamed, Ahmed Anter and Ahmed Zaky	EEG-Based Detection of Pornography Addiction: Deep Learning Models with Attention Mechanism for Unveiling Neurocognitive Patterns

TECHNICAL SESSION 5

Day 1, December 18, 2023   **Time: 16:30-18:00**

Selected Topics in Communications,   **Room: 204**
Chair: Prof. Mohamed E. Nasr, Tanta University, Egypt,
and Prof. Maha Elsabrouty, E-JUST, Egypt

Order	Paper No.	Authors	Paper Title
1	62 [Virtual]	Tomohiro Matsuyama, Takumi Suzuki, Shuhei Saito, Hirofumi Suganuma and Fumiaki Maehara	Throughput Improvement through FTN-based MIMO Signaling in Fixed Wireless Access
2	31 [Virtual]	Zhuoran Li, Osamu Muta and Yutaka Jitsumatsu	Performance Evaluation of Cooperative Positioning with User-Terminal Collaboration
3	42	Atsuko Yokotani, Hiroshi Mineno and Tetsuya Yokotani	High reliable information transfer in the IoT platform: C-NAT
4	89	Albert A. Lysko and Mpho Nkosi	Sharing Experiences: Near Line-Of-Sight TVWS
5	60	Seiji Kozaki, Hiroshi Mineno and Tetsuya Yokotani	Evolution of optical access networks and implementing low-latency transfer systems

TECHNICAL SESSION 6

Day 1, December 18, 2023   **Time: 16:30-18:00**

Selected Topics in Internet of Things,   **Room: 210**
Chair: Prof. Mohammed Abo-Zahhad, E-JUST, Egypt, and Dr. Rami Zewail, E-JUST, Egypt

Order	Paper No.	Authors	Paper Title
1	34	Mervat Elalem, Mohamed A. Sobh and Ayman M. Bahaa El-Din	xPython, Novel Secure Real-Time Operating System for IoT Subsystems Development using Micro-Python Language
2	86	Mohammed Abo-Zahhad, Ahmed A. Zakaria, Amro M.A. Abozeid and Mohammed M. Abo-Zahhad	A Real-Time Health Monitoring System for Remote Cardiac Patients
3	80 [Virtual]	Nelson Giovanni Agudelo C, Juan Carlos AmÉzquita Tovar and Yuli Andrea Rodriguez Parra	Alternative communication system for emergency situations
4	97 [Virtual]	Norman Nelufule, Tanita Zothile Singano, Daniel Shadung and Kelebogile Masemola	Privacy-Preservation and Containment in IoT Forensics Investigations: A Comparative Study.
5	14	Mohamed Issa and Mohamed Ghetas	Scheduling Model for IoT in Hybrid Fog-Cloud Computing

TECHNICAL SESSION 7

Day 2, December 19, 2023 Time: 14:30-16:00

Selected Topics in Artificial Intelligence,   Room: 203

Chair: Prof. Walid Gomaa, E-JUST, Egypt and Prof. Ahmed Fares, E-JUST, Egypt

Order	Paper No.	Authors	Paper Title
1	21	Maggie Shammaa, Sara Younes, Maggie Mashaly and Ahmed El-Mahdy	CNN-Based Receiver Architecture for Full-Duplex MIMO Communication Systems
2	51	Ahmed Omar, Mohamed Abbas, Khalil Yousef and Kasem Khalil	An Efficient Deep Learning Approach for sEMG Hand Gesture Classification
3	24	Mahmoud Nawar, Abdalla Saad, Basem Elhalawany and Ahmed Fares	Decision Transformer-Powered Traffic Control System
4	87	Mahmoud Taha, Abdulwahab Al-Sammak, Shady Elmashad and Ahmed B.Zaky	ArmorNet: Animated cartoon pornography detection using transformer network
5	8	Nada Mossad, Youssef Mohamed, Ahmed Fares and Ahmed Zaky	Arabic text sentiment analysis and emotion classification using transformers

TECHNICAL SESSION 8

Day 2, December 19, 2023 Time: 14:30-16:00

Selected Topics in Communications,   Room: 204

Chair: Prof. Osamu Muta, E-JUST, Egypt, and Dr. Osama Elnahas,
Borg El Arab Technological University, Egypt

Order	Paper No.	Authors	Paper Title
1	45	Mohamed Rihan, Tim Due, Mohammadami Vakilifar, Dirk Wubben and Armin Dekorsy	RAN Functional Split Options for Integrated Terrestrial and Non-Terrestrial 6G Networks
2	102	Rania Helal, Ahmed Nasser and Osama Elnahas	Direction of Arrival Estimation Approach Based on Gauss-Newton Method
3	35 [Virtual]	Seddiki Manel, Mouaici Mouna and Benchaïba Mahfoud	Toward an autonomous centroid-based deployment of Multi-UAV for full disaster area coverage
4	47	Mohamed Tharwat Waheed, Hazem Abdelaziem, Ibrahim Mahmoud and Ammar Mohamed	Clustering techniques for frame delay variations in mobile networks

TECHNICAL SESSION 9

Day 2, December 19, 2023 Time: 14:30-16:00

Selected Topics in Circuits and Systems   Room: 201

Chair: Prof. Mohammed S. Sayed, E-JUST, Egypt and Dr. Ahmed Shalaby, Benha University, Egypt

Order	Paper No.	Authors	Paper Title
1	28	Marwa Mansour and Islam Mansour	Transformer Tank VCO based on Inverse Class-F Architecture for mm-Wave Applications using 180nm CMOS Technology
2	46	Ahmed Mohamed Abdel Razik and M.Riad Elghonemy	A Novel Approach to AES S-BOX and Inverse S-BOX Design on FPGA Devices
3	50 [Virtual]	Yuka Otani and Akira Yamawaki	An investigation of line and frame-based descriptions on designing sprite drawing hardware in high-level synthesis
4	49 [Virtual]	Amr Mohamed Rashed, Ziad Amr Abd-Elghafar and Islam Nashaat	A Complete Automated Analog Flow from Design Generation to Post-layout Verification

TECHNICAL SESSION 10

Day 2, December 19, 2023 Time: 14:30-16:00

Selected Topics in Biomedical Engineering,   Room: 210

Chair: Dr. Rami Zewail, E-JUST, Egypt and Dr. Sameh Nashaat, E-JUST, Egypt

Order	Paper No.	Authors	Paper Title
1	98	Hossameldin Mahmoud, Mustafa Elattar and M. Saeed Darweesh	Joint Sign Language Recognition and Translation using Keypoint Estimation
2	15	Mohamed Abdelmagid, Marwa Yusuf, Basem M. Elhalawany and Ahmed Fares	Dual Deep Learning for Sleep Classification
3	71	Mohamed Mahmoud and Sherif Elgohary	Transfer Learning for Multi-label Emotion Recognition: A Promising Approach for Biomedical Applications
4	103	Samir Elsagheer, Mohamed Sayed and Mohsen Hassan	Efficient Automatic External Defibrillator using the Slope of Hilbert Transformed ECG Signals
5	92	Hany Shaker, Asmaa Sayed, Safaa Mahran, Mohamed Abbas, Kasem Khalil and Khalil Yousef	Towards a Low-cost Non-Invasive Patient Operated Electric Muscle Stimulator for People with Spinal Cord Injuries

TECHNICAL SESSION 11

Day 2, December 19, 2023 Time: 16:15-17:45
Selected Topics in Artificial Intelligence,   **Room: 203**
Chair: Prof. Ahmed Fares, E-JUST, Egypt and Prof. Ahmed Zaky, E-JUST, Egypt

Order	Paper No.	Authors	Paper Title
1	23	Arwa Fawzy, Ahmed Hassan, Ahmed Gad, Haitham El-Hussieny and Ahmed B.Zaky	DeepCat: A Deep Learning Approach to Understand Your Cat's Body Language
2	64	Nour Abosen, Ahmed Safwat, Omnia Nabil, Ahmed Zaky and Samir Elsagheer	Improving Diabetes Forecasting: An Ensemble Approach with Feature Selection in Time Series Analysis
3	94	Hend Bakr, Ahmed M.Salama, Ahmed Fares and Ahmed B.Zaky	Physician Scheduling using Constraint Satisfaction Programming
4	93	Hend Bakr, Amira Abozaid, Samir Elsagheer and Ahmed Zaky	Hybrid Machine Learning Classification for Tipple Negative Breast Cancer
5	63	Yousef Adel, Mostafa Dorrah, Ahmed Ashraf, Abdallah Elsaadany, Mahmoud Mohamed, Mariam Wael and Ghada Khoriba	AraQA: An Arabic Generative Question-Answering Model for Authentic Religious Text

`TECHNICAL SESSION 12

Day 2, December 19, 2023 Time: 16:15-17:45
Selected Topics in Communications,   **Room: 204**
Chair: Prof. Elsayed Elrabie, Menoufia University, and Dr. Sherief Hashima, RIKEN-AIP, Japan

Order	Paper No.	Authors	Paper Title
1	12	Mohammed Yacoub, Bishoy Sharobim, Marwan Fetteha, Heba Aslan and Lobna Said	Pseudo Random Number Generators Employing Three Numerical Solvers of Chaotic Generators
2	74	Muhammad Hosam, Mohamed Ehab, Baraa Mohamed, Dina Saad, Fatma Gamal, Osama Elnahas and Omar Abd-Elgaber	Reinforcement Learning based Sum Rate Maximization for UAV-Assisted NOMA System
3	104	Hamsa Mahmoud Hosny, Mohamed El-Shazly, Nehal Eazaly and Osama Elnahas	Data-Driven Technique for Resource Allocation in 5G-IoV Network
4	25	Fatty Salem, Reham Khairy and Ihab Ali	Ultra-Lightweight Authentication Scheme for Securing the Substation and Control Center Communications in Smart Grids
5	1	Adham Haggag, Adham Nassar, Alhassan Khaled, Mazen Khattab, Rania Soliman, Mohamed E. Gad and M. Saeed Darweesh	Detecting Sleeping Cells in Cellular Networks Based on One-Class Support Vector Machines Algorithm and Deep Autoencoders

TECHNICAL SESSION 13

Day 2, December 19, 2023 Time: 16:15-17:45

Selected Topics in Circuits and Systems,   Room: 201

Chair: Prof. Mohammed S. Sayed, E-JUST, Egypt and Dr. Ahmed Shalaby, Benha University, Egypt

Order	Paper No.	Authors	Paper Title
1	114	Alamir Hassan, Abdallah Yehia, Rami Zewail, Omar Abdel-Rahim, Mohamed Shahin and Moayadeldin Tamer	Advances in Lithium-Ion Battery SOC Prediction: A Data-Driven GRU-RNN Framework.
2	96	Eman Atef, Mohamed Abbas and Khalil Yousef	A Low Power Modified Strong-ARM Latch-Based Comparator for Biomedical Applications in 130nm CMOS Technology
3	107	Jeremiah Amissah, Omar Abdel-Rahim, Diaa-Eldin Mansour, Sobhy Abdelkader and Sammy Kinga	Efficiency Enhancement in Virtual Power Plant through an Improved Particle Swarm Algorithm for Optimal Power Generation Optimization

TECHNICAL SESSION 14

Day 2, December 19, 2023 Time: 16:15-17:45

Selected Topics in Biomedical Engineering,   Room: 210

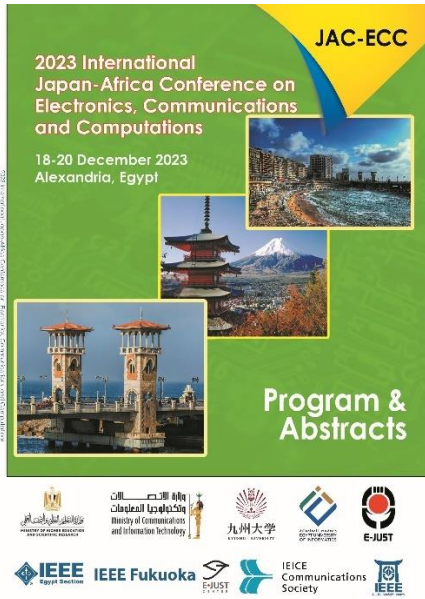**Chair: Prof. Tanemasa Asano, Kyushu Univerity, Japan and Dr. Sameh Nashaat, E-JUST, Egypt**

Order	Paper No.	Authors	Paper Title
1	44	Aya Taghian, Ahmed H. Abd El-Malek, Mohammed S. Sayed and Mohammed Abo-Zahhad	Towards an Augmented Reality Goggles Integrated with a Mobile-Based Medication Adherence System
2	75	Adel B.Abdelrahman, Ahmed Allam, Rami Zewail, Esraa Mansour, Abdelazim Atta, Abdelrahman Ashraf and Mohamed H.Shahin	Review on Non-Invasive ML-Enhanced Electromagnetic Blood Glucose Monitoring
3	59 [Virtual]	Menduh Furkan Aslan, Omar Kerbouche, Tuğba Selcen Navruz and Mustafa İlker Beyaz	A Magnetic Sensor for Artery Pressure Monitoring
4	55	Mohammed Sayed, Samir Elsagheer and Mohsen Hassan	Efficient Low Cost Automatic External Defibrillator Circuit
5	110	Wongani Moyo, Ahmed Allam, Adel Behair and Asano Tanemasa	Metamaterial based unidirectional antenna for bone fracture detection

Contact Persons

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