



*5th International Symposium on Advanced Electrical and Communication
Technologies Faculty of Sciences Ben M'sick – Hassan II University,
Casablanca, Morocco, 15-17 March 2023*

5th International Symposium on Advanced Electrical and Communication Technologies

(ISAECT '22)

Organized by: Information Processing Laboratory (LTI -FSBM)

www.isaect.org

15-17 March, 2023

Casablanca - Morocco



PROGRAM



*5th International Symposium on Advanced Electrical and Communication
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Wednesday 15, March 2023			
08h00 - 09h30	Welcoming and Registration		
09h30 - 10h00	Opening Ceremony		
10h00 - 10h30	Poster Session: PS1 & Coffee Break		
10h30 - 11h50	Keynote Session: KS1		
12h00 - 13h00	Oral Session: CITET-01 Physic Department Meeting Room	Oral Session: MCSPE-01 Biology Department Meeting Room	Virtual Session MCSPE-A Amphitheater 8
13h30 - 15h00	Lunch Break		
15h00 - 17h00	Oral Session: CITET-02 Physic Department Meeting Room	Oral Session: MCSPE-02 Biology Department Meeting Room	Virtual Session MCSPE-B Amphitheater 8
Thursday 16, March 2023			
08h00 - 09h30	Welcoming and Registration		
09h30 - 11h30	Keynote Session: KS2		
11h30 - 12h00	Poster Session: PS2 & Coffee Break		
12h00 - 13h00	Oral Session: CITET-03 Physic Department Meeting Room	Virtual Session CITET-A Amphitheater 8	
13h30 - 15h00	Lunch Break		



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15h00 - 17h00	Oral Session: CITET-04 Physic Department Meeting Room	Virtual Session CITET-B Amphitheater 8
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Friday 17, March 2023	
08h00 - 09h30	Welcoming and Registration
09h30 - 11h00	Keynote Session: KS3
11h00 - 11h30	Poster Session: PS3 & Coffee Break
11h30 - 12h30	Round Table & Symposium Closure The Amphitheater 8
Keys:	
KS	Keynote Session
CITET	Oral Session / Track 1 & Track 2:
MCSPE	Oral Session / Track 3 & Track 4:
Virtual Session CITET	Virtual Session / Track 1 & Track 2:
Virtual Session MCSPE	Virtual Session / Track 3 & Track 4:
PS	Poster Session



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Wednesday, March 15, 2023

08h00 - 09h30	Welcoming and Registration Reception Desk, Faculty of Sciences Ben M'Sick – Hassan II University, Casablanca, Morocco
09h30 - 10h00	Opening Ceremony Amphitheater 8 Chair: Pr. M.Talea, Pr. S.ELFilali
10h00 - 10h30	Refreshment Break The Faculty Hall
10h30 - 11h50	Keynote Session: KS1 The Amphitheater 8 Chairs: Pr. M.Talea, Pr. S.ELFilali
10h30 - 11h10	Keynote speaker: <i>Prof. Michele Luglio University of Rome Tor Vergata, Italy</i> Issues and Challenges in Information Security
11h10 - 11h50	Keynote speaker: <i>Prof. ALI SIADAT Director of DESIGN, Manufacturing and Control laboratory, Arts et Métiers Institute of technology, FRANCE</i> "Human and Smart Factory"



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12h00 - 13h00	Oral Sessions:	CITET-01	MCSPE-01	Virtual Session MCSPE-A
CITET-01	Room: Meeting Room (Physic Department) Chairs: Pr A.Siadat, Pr A.Bakali, Pr M.Bour			
12h00	ID: 1070 <i>Delve deep into End-To-End Automatic Speech Recognition Models</i> Maria Labied, Abdessamad Belangour and Mouad Banane			
12h15	ID: 3631 <i>Artificial Intelligence For Weather Forecasting: A Review</i> Oussama Zemnazi, Sanaa El Filali and Sara Ouahabi			
12h30	ID: 3683 <i>Efficient FPGA based ECG compressor for IoT</i> Siham Ez-Ziymy, Anas Hatim, Slama Hammia, Hicham Jakjoud, Mohamed El Mehdi Ait Bourkha and Dounia Nasir			
12h45	ID: 5804 <i>Bandwidth Enhancement of a Compact Dual Band Microstrip Antenna for Ku-Band Application</i> Youssef Frist, Mourad Elhabchi and Mohamed Nabil Srifi			



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MCSPE-01	Room: Meeting Room (Biology Department) Chairs: Pr M.Luglio, Pr I.Atouf, Pr M.Elhabchi
12h00	ID: 1013 <i>Bandwidth Enhancement of the Triband Patch Antenna by Using a Three Rectangular Slots Defected Ground Structures (DGS) Technique</i> Youssef Frist, Mourad Elhabchi and Mohamed Nabil Srifi
12h15	ID: 1925 <i>Metamaterial Bandpass Filters Using Compact Low-Pass And High-Pass Filters for 5G Sub-6 GHz Mobile Communications</i> Rachida Boufouss, Abdellah Najid, Óscar Fernández and Tomás Fernández
12h30	ID: 3069 <i>Enhancing the Performance of the Hashing Standard SHA-3 in a Field-Programmable Gate Array by Exploiting Parallelism</i> Fatimazahraa Assad, Mohamed Fettach, Fadwa El Otmani and Abderrahim Tragha
12h45	ID: 4413 <i>Comparison between four control techniques to tracking the maximum power point for a photovoltaic system under the special conditions climatic for Casablanca</i> Khadija Abdouni, Hicham Bahri and Asmaa Drighil

Virtual Session MCSPE-A	Room: Amphitheater 8 Chairs: Pr A.Benaboud, Pr A.Bahnasse, Pr H.Bahri
12h00	ID: 904 <i>automatic modulation recognition using Mask R-CNN</i> Noureddine El-Haryqy, Zhour Madini and Younes Zouine
12h15	ID: 1013 <i>Bandwidth Enhancement of the Triband Patch Antenna by Using a Three Rectangular Slots Defected Ground Structures (DGS) Technique</i> Youssef Frist, Mourad Elhabchi and Mohamed Nabil Srifi



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12h30	ID: 1500 <i>A survey on IoV-Smart Cars: Challenges and Future Scopes</i> Walid Kasraoui, Abdellah Aliane, Issam Atouf and Salaheddine Khamlich
12h45	ID: 1690 <i>A New Encoding Method to Enhance the Transmission Integrity and Overcome the Noisy environment in the WBAN Networks</i> Mostapha Bekkour, Nabih Alaoui, Mohamed Saban, Mohamed Zied Chaari, Juan Ruiz Alzola and Otman Aghzout
13h	SD WAN security Challenges and solutions Anas esemllali Bahnasse Ayoup Talea Mohamed
13h15	ID5153 IOT-based secure and privacy preserving health management system using smart cards Zayneb Gaouzi, Khalid Choug dali

13h30 - 15h00	Lunch Break The Faculty Hall
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15h00 – 17h00	Oral Sessions:	CITET-02	MCSPE-02	Virtual Session MCSPE-B
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CITET-02	Room: Meeting Room (Physic Department) Chairs: PrA. Siadat, Pr A.Genoun, Pr A.ELBakkali
15h00	ID: 6114 <i>A compact wideband low-profile monopole antenna for lower sub-6 GHz 5G IoT applications</i> Farman Hassan, Muhammad Hamza Mehmood, Auliya Ur Rahman, Wasiat Khan and Sadia Khalid
15h15	ID: 5804 <i>Bandwidth Enhancement of a Compact Dual Band Microstrip Antenna for Ku-Band Application</i> Said Douhi, Adil Eddiai, M'Hammed Mazroui, Mounir Meddad, Omar Cherkaoui and Mohamed Idiri
15h30	ID: 6375 <i>Deep Reinforcement Learning for Traffic Light Control: A Case Study on Casablanca city, Morocco</i> Asma Ait Ouallane, Ayoub Bahnasse, Assia Bakali and Mohamed Talea
15h45	ID: 6689 <i>Hardware-based Blockchain Technology as Promising IoT Security Solution</i> Houda Lhore, Kaouthar Bousselam, Oussama El Issati and Mouhcine Chami

MCSPE-02	Room: Meeting Room (Biology Department) Chairs: Pr M.Luglio, Pr A.Bakali, Pr M.Zaarane
15h00	ID: 4961 <i>Modeling of Ultrasonic waves Actuation and Dispersion Curves Computation in Isotropic plate</i> Moussa Mekkaoui, Salah Nissabouri and Hassan Rhimini
15h15	ID: 5238 <i>Nonlinear Control of VSC-HVDC System based on Backstepping controller</i> Chaimaa Lakhdaïri, Aziza Benaboud, Hicham Bahri and Mohamed Talea



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15h30	ID: 6520 <i>Evaluating the Efficiency of AI, Metaheuristic and scanning P&O GMPPT Algorithms for Grid Connected PV Systems</i> Mohamed Bahri, Mohamed Talea, Hicham Bahri and Mohamed Aboulfatah
15h45	ID: 7054 <i>A Comparative Review of Hybrid Renewable Energy Systems: Structures, Performance Evaluation, and Optimization</i> Khalid Sabhi, Mohamed Talea and Hicham Bahri
16h00	ID: 7542 <i>Soil moisture estimation using Arduino sensor</i> Imrane Ouhammou, Tarik Chafiq and Mohamed Hmamou

Virtual Session MCSPE-B	Room: Amphitheater 8 Chairs: Pr A.Benaboud, Pr A.Drighil, Pr K.EL Gammat
15h00	ID: 3949 <i>Sea Ship recognition Using the YOLOv7 Model on Edge Devices</i> Abdelilah Haijoub, Anas Hatim, Mounir Arioua, Slama Hammia, Ahmed Eloualkadi and Antonio Guerrero-González
15h15	ID: 5077 <i>Alzr-Net: A Novel Approach to Detect Alzheimer Disease</i> Muhammad Hamza Mehmood, Farman Hassan, Auliya Ur Rahman and Muhammad Azaz Farooq
15h30	ID: 6572 <i>A Wearable Sensor System to Detect the Risk of Fireground Injuries among Firefighters</i> Allan Vikiru and Esther Khakata



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15h45	ID: 6749 <i>Multimodal Sentiment Analysis using Late Fusion Graph Convolutional Network</i> Meriem Elhadi, Azeddine Khiat, Abdelmajid Bousselham and Ayoub Bahnasse
16h00	ID: 6877 <i>Arrhythmia rhythm and congestive heart failure classification</i> Mohamed El Mehdi Ait Bourkha, Anas Hatim, Said El Beid, Dounia Nasir, Siham Ezzimy and Khalid Zahid
16h15	ID: 6947 <i>Performance Analysis of Different ANN-based Weight Updating Algorithms in Forecasting Short Term Load Demands in Cluster Microgrids</i> S. N. V. Bramareswara Rao, Y. V. Pavan Kumar, Ch. Pradeep Reddy, M. Kalyan Chakravarthi and D. John Pradeep
16h30	ID: 8273 <i>Adaptive Type1 Fuzzy Controller for Lag Dominant First and Second Order Nonlinear Systems</i> M. Kalyan Chakravarthi, Y. V. Pavan Kumar, Ch. Pradeep Reddy, Nithya Venkatesan, D. John Pradeep and S. N. V. Bramareswara Rao
16h45	ID: 8356 <i>Radiation Pattern Stability and Quality Factor Enhancement of Periodic Planar Structures using Characteristic Mode Analysis Method for Cancer Diagnostic Imaging</i> Rabab Sedrati, Mouad El Mouddeh, Badiia Ait Ahmed, Mohamed Zied Chaari, Juan Ruiz Alzola, Marta Cabedo Fabr�s and Otman Aghzout



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Thursday, March 16, 2023

08h00 - 09h30	Welcoming and Registration Reception Desk, Faculty of Sciences Ben M'sick – Hassan II University, Casablanca, Morocco
09h30 - 11h30	Keynote Session: KS2 The Amphitheater 8 Chairs: Pr M.Bour, Pr I.Atouf
09h30 - 10h30	Keynote speaker: <i>Prof. Dr. Saïda LAZAAR</i> , ENSA of Tangier, Morocco DIGITAL SECURITY: Panorama and Challenges
11h30 - 12h00	Refreshment Break The Faculty Hall



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12h00 - 13h00	Oral Sessions:	CITET-03	Virtual Session CITET-A
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CITET-03	Room: Meeting Room (Physic Department) Chairs: Pr S.Lazaar, Pr M.Talea, Pr H.Bahri
12h00	ID: 7329 <i>Activation Functions for Deep Neural Networks</i> Aziza El Bakali Kassimi, Safaa Echamsi, Essadik Belouafi and Abdelaziz Bouroumi
12h15	ID: 7519 <i>A Novel Approach Toward Improving the Exam Management Process in Smart Education Environment using Cloud and IoT-based technologies</i> Amine Dehbi, Abdellah Bakhouyi, Rachid Dehbi and Mohamed Talea
12h30	ID: 7748 <i>Developing a smart system for autonomous management and dynamic allocation using AI in an IoT-based connected restaurant</i> Youssef Msala, Mohamed Talea and Mohamed Aboulfatah
12h45	ID: 8360 <i>Towards a new approach for dynamic QoS management in wireless networks based SDN</i> Hafsa Ait Oulahyane, Ayoub Bahnasse, Assia Bakali and Mohamed Talea



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Virtual Session CITET-A	Room: Amphitheater 8 Chairs: Pr A.Bahnasse, Pr S.Ouahabi, Pr S.Broumi
12h00	ID: 904 <i>automatic modulation recognition using Mask R-CNN</i> Noureddine El-Haryqy, Zhour Madini and Younes Zouine
12h15	ID: 1690 <i>A New Encoding Method to Enhance the Transmission Integrity and Overcome the Noisy environment in the WBAN Networks</i> Mostapha Bekkour, Nabih Alaoui, Mohamed Saban, Mohamed Zied Chaari, Juan Ruiz Alzola and Otman Aghzout
12h30	ID: 2069 <i>Fusing Sliding Mode Control into Differential Flatness for Aggressive Maneuvering</i> Aydoğan Soylu, Ahmet Semih Karakaş, Çağrı Güzay and Tufan Kumbasar
12h45	ID: 3805 <i>Miniaturization Technique and Stable Radiation Pattern Improvements of Planar Antennas Based on The Theory of Characteristic Modes for High-Resolution Detection of Radar Systems and Medical Imaging Applications</i> Mouad El Mouden, Rabab Sedrati, Badiiaa Ait Ahmed, Mohamed Zied Chaari, Juan Ruiz Alzola, Marta Cabedo-Fabr'Es and Otman Aghzout
13h00 - 15h00	Lunch Break The Faculty Hall



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15h00 - 17h00	Oral Sessions:	CITET-04	Virtual Session CITET-B
CITET-04	Room: Meeting Room (Physic Department) Chairs: Pr A.Bakhoyi, Pr A.ELBakkali, Pr M.ELHabchi		
15h00	ID: 8800 <i>5G Applications: Risks and security</i> Hind Fehmi, Ayoub Bahnasse, Mohamed Talea and Meryem Fakhouri Amr		
15h15	ID: 9089 <i>Artificial Intelligence for Stock Market Prediction</i> Rihab Najem, Meryem Fakhouri Amr, Ayoub Bahnasse and Mohamed Talea		
Virtual Session CITET-B	Room: Amphitheater 8 Chairs: Pr A.Benaboud, Pr A.Genoun, Pr H.Toumi		
15h00	ID: 5996 <i>Artificial Intelligence Approaches in Precision Marketing: A Survey</i> Nouhaila El Koufi, Abdessamad Belangour and Mounir Sadiq		
15h15	ID: 7398 <i>Multizone DAG Blockchain based intrusion detection system to secure resource-constrained environnement</i> Salaheddine Kably, Tajeddine Benbarrad, Nabih Alaoui and Mounir Arioua		
15h30	ID: 8021 <i>Trade-off between Latency and Accuracy in Automated Visual Inspection Systems using Image Compression and Deep Learning</i> Tajeddine Benbarrad, Salaheddine Kably, Hanan Amthiou, Mustapha Khalfi, Nabih Alaoui and Mounir Arioua		
15h45	ID: 8179 <i>Intrusion Detection in Big Dataset Using Spark with dynamic model</i> Elmoutaoukkil Abdelwahed, Hamlich Mohamed and Khatib Amine		



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16h00	ID: 9120 <i>Smart Cash-On-Delivery: Enhancing e-commerce transparency with smart contracts and parcel lockers</i> Hicham Kalkha, Azeddine Khiat, Ayoub Bahnasse and Hassan Ouajji
16h15	ID: 9288 <i>Toward a new approach for extracting and categorizing information from Curriculum Vitae</i> Ibrahim Hamzane and Safia Baali
16h30	ID: 6434 <i>A Modified Dijkstra's Algorithm For Shortest Path Problem On Fermatean Fuzzy Network</i> Said Broumi, S Mohanaselvi, Assia Bakali, Mohamed Talea and Abdellah Bakhouyi

Friday, March 17, 2023

08h00 - 09h30	Welcoming and Registration Reception Desk, Faculty of Sciences Ben M'sick – Hassan II University, Casablanca, Morocco
09h30 - 11h00	Keynote Session: KS3 The Amphitheater 8 Chairs: Pr A.ELFilali, Pr M.Talea
09h30 - 10h15	Keynote speaker: Prof. IGOR WKIC , General Director (CEO) Hackron, Cybercrime as a SAAS Model
10h15 - 11h00	Keynote speaker: Prof. Dr. Mohamed ESSAIDI , General Director of Moroccan School of Engineering Science, Morocco Smart Cities for SDGs Acceleration
11h00 - 11h30	Refreshment Break The Faculty Hall
11h30 - 12h30	Round Table & Symposium Closure The Amphitheater 8