International Conference on Advanced Systems and Emergent Technologies (IC_ASET'2019)

March 19-22, 2019, Hotel Medina BELISAIRE & THALASSO****, ***Hammamet-Tunisia***

Tuesday, March 19 - 2019, AM		
09:00 – 11:00	Welcome & Registration	
11:00 – 11:20	Opening speech	
11:20 - 11:40	Coffee Break	
11:40 – 12:40	**Plenary Session I: Hardware/Software Implementation of an Extended Kalman Filter-based PI-/PD-like Fuzzy-Neural-Network Controller for Industrial Drives**, Dr. Ahmed Rubaai, IEEE Fellow, Howard University, USA,	
12:40 – 14:40	Lunch	
Tuesday, March 19 - 2019, PM		
14:40 – 15:40	**Plenary Session II: MISER SUR LES NORMES INTERNATIONALES AFNOR IT : nouvelle entité du groupe AFNOR lancée en 2019 pour la gestion de la cybersécurité au sein d'une entreprise, Sami Zoghlami,** Expert Certification AFNOR GROUPE	
15:40 - 17:00	Parallel Sessions I	
	Session 1 (*Room A*) *Automatic Control Systems*	Session 2 (*Room B*) *Power Electronics & Power Systems*

Wednesday March 20 - 2019, AM		
08:30 – 09:30	**Plenary Session III: L'accréditation TUNAC instaure la confiance dans notre vie de tous les jours, Sonia MAHDOUI MELKI,** Sous Directeur Qualité au Conseil National d'Accréditation « TUNAC »	
09:30 – 10:50	Parallel Sessions II	
	Session 3 (*Room A*) *Automatic Control Systems*	Session 4 (*Room B*) *Robotics*
10:50 – 11:10	Break	
11:10 – 12:30	Parallel Sessions III	
	Session 5 (*Room A*) *Signal & Image Processing*	Session 6 (*Room B*) *Power Electronics & Power Systems*
12:30 – 14:00	Lunch	
Wednesday March 20 - 2019, PM		
14:00 – 15:00	**Plenary Session IV: LE PROGRAMME SMART GRID DE LA STEG/ Support aux systèmes avances et driver des technologies émergentes, Radhouane Dakhli,** DAK/DMT/STEG R&D Project Manager.	
14:00 - 15:40	Parallel Sessions IV	
	Session 7 (*Room A*) *Communication Engineering*	Session 8 (*Room B*) *Manufacturing Engineering*
15:40 – 16:00	Coffee Break	
16:00 – 17:20	Parallel Sessions V	
	Session 9 (*Room A*) *Automatic Control Systems*	Session 10 (*Room B*) *Signal Processing*
Thursday March 21 - 2019, AM		
08:30 – 09:30	**Plenary Session V : A Closed-loop Hybrid Brain-Computer Interface System for Intelligent Neuroprostheses Control, Zied Tayeb,** Researcher @ Technical University of Munich	
09:30 – 10:50	Parallel Sessions VI	
	Session 11 (*Room A*) *Robotics*	Session 12 (*Room B*) *Power Electronics & Power Systems*
10:50 – 11:10	Break	
11:10 – 12:30	Parallel Sessions VII	
	Session 13 (*Room A*) *Automatic Control Systems*	Session 14 (*Room B*) *Manufacturing Engineering*
12:30 – 14:00	Lunch	
13:00 – VISIT TO THE DAR EL HOUT MUSEUM IN TUNIS		
Thursday March 21 - 2019, PM		
14:00 - 15:40	Parallel Sessions VIII	
	Session 15 (*Room A*) *Embedded & Communication Engineering*	Session 16 (*Room B*) *LMIs for Advanced Control and Observer Design*
15:40 – 16:00	Coffee Break	
16:00 – 17:20	Parallel Sessions IX	
	Session 17 (*Room A*) *Automatic Control Systems*	Session 18 (*Room B*) *Signal & Image Processing*

21:00-00:00 : GALA EVENING (DO NOT MISS IT)

Friday, March 22 - 2019, AM		
08:30 – 09:50	Parallel Sessions X	
	Session 19 (*Room A*) *Automatic Control Systems*	Session 20 (*Room B*) *Power Electronics & Power Systems*
10:30 – 10:50	Break	
10:00– 11:00	**Plenary Session VI : LA CREATION DES SPIN-OFF EN TUNISIE : le concept, le processus, les ressources et les envergures. Moez Otay,** Ingénieur Principal @ ANPR Business Coach @ ANPR, In charge of business creation & spin-off	
12:10 – 13:00	Round Table & Closing	

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Conference Program

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<tr><td rowspan="3">15:40 - 17:00</td><td colspan="2">Parallel Sessions I</td></tr>
<tr><td>Session 1
Automatic Control Systems

Room A</td><td>Chairs : Samir Nejim & Ahmed Rubaai
15:40-16:00 Decentralized Optimal Controller for Interconnected Systems based on the Reference Model, Ahmed Feydi and Salwa Elloumi
16:00-16:20 Decentralized PID Controllers Synthesis for Linear Interconnected Systems Using Shifted Legendre Polynomials
Mohamed Sadok Attia, Mohamed Karim Bouafoura and Naceur Benhadj Braiek
16:20- 16:40 On the Use of Augmented Models to Continuous-Time System Stability study
Anis Ayadi, Boutheina Sfaihi and Mohamed Benrejeb
16:40- 17:00 An Explicit Analytical Expression of the Poincaré Map for Analyzing Passive Dynamic Walking of the Compass-Gait Biped Model, Wafa Znegui, Hassène Gritli and Safya Belghith</td></tr>
<tr><td>Session 2
Power Electronics & Power Systems

Room B</td><td>Chairs : Faouzi Bacha & Khaled Nouri
15:40-16:00 Design and performance investigation of small-scale wind turbine system based on hybrid-excited flux-switching machine, Habib Cherif, Safa Affi, Jamel Belhadj, Sami Hlioui and Mohamed Gabsi
16:00-16:20 Easy and effective multiple faults detection and localization method for PMSM drives
Saïda Ben Slimen, Manef Bourogaoui and Houda Ben Attia Sethom
16:20-16:40 Distance Protection Behavior during Integration of Distributed Generation : Case Study Tunisian Transmission Network, Nesrine Sahbeni, Asma Meddeb, Nesrine Amor and Souad Chebbi
16:40-17:00 Study and modeling of the ship electric propulsion system based on double star synchronous machine, Helmi Abrougui, Habib Dallagi and Samir Nejim</td></tr>
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<tr><td>Session 3
Automatic Control Systems

Room A</td><td>Chairs : Mohamed Benrejeb & Mongi Besbes
09:30-09:50 Discrete second order sliding mode control for robust tracking and model following of linear uncertain systems, Wafa Boukadida, Anouar Benamor and Hassani Messaoud
09:50-10:10 A Sliding Mode Observer for a Discrete Delayed Output Systems
Nesrine Montacer, Samah Ben Atia, Khadija Dehri and Ridha Ben Abdennour
10:10-10:30 On the Backstepping and Sliding Mode Control Techniques : An Experimental Study
Amira Tiga, Chakib Ghorbel and Naceur Benhadj Braiek
10:30-10:50 Control of DFIG-variable wind turbine with internal model controller
Asma Hammami, Imen Saidi and Dhaou Soudani</td></tr>
<tr><td>Session 4
Robotics

Room B</td><td>Chairs : El Hadi Guechi & LAbib Terrissa
09:30-09:50 Modeling and Autopilot Design for an Autonomous Catamaran Sailboat Based on Feedback Linearization, Helmi Abrougui, Samir Nejim and Habib Dallagi
09:50-10:10 Musculoskeletal modeling of Elbow joint under Functional Electrical Stimulation
Houda Barbouch, Nahla Khraief-Hadded and Safya Belghith
10:10-10:30 Adaptive control for a mobile robot
Hela Sohnoun, Imen Saidi and Dhaou Soudani
10:30-10:50 Study and Modeling of a Hull Inspection Station with two Arms Manipulator
Nidhal Hamzaoui, Chiheb Zaoui, Habib Dallagi and Saber Hachicha</td></tr>
<tr><td>10:50 – 11:10</td><td colspan="2">Break</td></tr>
<tr><td rowspan="3">11:10 – 12:30</td><td colspan="2">Parallel Sessions III</td></tr>
<tr><td>Session 5
Signal & Image processing

Room A</td><td>Chairs : Fréderic Falzon & Mohamed Saber Naceur
11:10-11:30 Deep Features for Kinship Verification from Facial Images, Abdelhakim Chergui, Salim Ouchtati, Jean Sequeira, Salah Eddine Bekhouche, Fares Bougourzi and Hichem Telli
11:30-11:50 Comparative Study of Face and Person Detection algorithms: Case Study of tramway in Lyon, Hatem Belhassen, Virginie Fresse and El Bay Bourennane
11:50-12:10 Efficient corner detection algorithm on GPU
Afef Bettaieb, Nabila Filali, Taoufik Filali and Habib Ben Aissia
12:10-12:30 The early prediction of neonates mortality in Intensive Care Unit
Zaineb Kefi, Kamel Aloui and Mohamed Saber Naceur</td></tr>
<tr><td>Session 6
Power Electronics & Power Systems

Room B</td><td>Chairs : Abdessattar Ben Amor & Habib Dallagi
11:10-11:30 Particle Markov Chaine Monte Carlo for Power System Dynamic State Estimation
Nesrine Amor, Asma Meddeb and Souad Chebbi
11:30-11:50 Decentralized observer based Control Design of Nonlinear Polynomial Interconnected Systems Application for a Large Scale Power System, Basma Abidi and Salwa Elloumi
11:50-12:10 MPPT control of a photovoltaic system based on Sliding Control
Ilhem Bouchriha, Ali Ben Ghanem and Khaled Nouri
12:10-12:30 Multi-hop energy-efficient routing protocol based on Minimum Spanning Tree for anisotropic Wireless Sensor Networks, Sana Messous and Noureddine Liouane</td></tr>
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14:50 – 15:00	**Break**	
15:00 - 16:20	**Parallel Sessions IV**	
	Session 7 ***Communication Engineering*** *Room A*	**Chairs : Youcef Zennir & Amer Rajeb Zerek** ***15:00-15:20 LTE Transmitter System Design and Performances Analysis,*** *Haithem Rezgui, Fatma Rouissi and Adel Ghazel* ***15:20-15:40 A Fault Detection AES Scheme for resource-constrained embedded systems,*** *Noura Benhadj youssef and Mouna Karmani* ***15:40-16:00 Performance of Massive MIMO OFDM System with M-QAM Modulation based on LS Channel Estimation,*** *Abdelhamid Riadi, Mohamed Boulouird and Moha M'Rabet Hassani* ***16:00-16:20 Simple Power Analysis for Smartcard's Authentication-Protocol,*** *Noura Benhadjyoussef and Mouna Karmani*
	Session 8 ***Manufacturing Engineering*** *Room B*	**Chairs : Sonia Hajri & Asma Zaidi** ***15:00-15:20 Risk assessment for a steam generator (1050 G1) Skikda refinery Algeria, using HAZOP and RQA methods,*** *Youcef Zennir* ***15:20-15:40 Advanced rescheduling strategies for solving the dynamic job shop using hybrid GA approach,*** *Kaouther Ben Ali, Achraf Telmoudi and Said Gattoufi* ***15:40-16:00 Short term planning for cyclic scheduling: A new approach,*** *Ghaith Manita and Ouajdi Korbaa* ***16:00-16:20 Integrated Production and Predictive Maintenance Planning Based on Prognostic Information,*** *Omar Bougacha, Christophe Varnier, Noureddine Zerhouni and Sonia Hajri-Gabouj*
16:20 – 16:40	**Coffee Break**	
16:40 – 18:00	**Parallel Sessions V**	
	Session 9 ***Automatic Control Systems*** *Room A*	**Chairs : Naceur Benhadj Braiek & Radhouane Dakhli** ***16:40-17:00 Actuator Fault Tolerant Control design for Linear Parameter Varying Systems,*** *Raouaa Tayari, Ali Ben Brahim and Fayçal Ben Hmida.* ***17:00-17:20 Set-Membership Fault Detection for Continuous-time Switched Linear Systems,*** *Haifa Ethabet, Tarek Raïssi, Messaoud Amairi and Mohamed Aoun* ***17:20-17:40 Fault estimation using adaptive observer-based technique for time delay fractional-order systems,*** *Halima Atitallah, Asma Aribi and Mohamed Aoun* ***17:40-18:00 Adaptive Observer Design for Actuator and Sensor Faults Estimations: VTOL Air Craft System Application,*** *Neila Bedioui, Radhia Houimli and Mongi Besbes*
	Session 10 ***Signal Processing*** *Room B*	**Chairs : Mohamed Saber Naceur & Salim Ouchtati** ***16:40-17:00 Adverse Side Effects of Noise given rise to Vector Network Analyzer,*** *Nadia Fezai and Abdessattar Ben Amor* ***17:00-17:20 Variable Step Size Pre-Whitening Transform Domain Adaptive Noise Canceller,*** *Laid Chergui and Saad Bouguezel* ***17:20-17:40 EEG Source Estimation using Multiple Unscented Particle Filtering,*** *Nesrine Amor, Asma Meddeb and Souad Chebbi* ***17:40-18:00 Predective control of an under-actuated System,*** *Nour Houda Manai, Imen Saidi and Dhaou Soudani*

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<tr><td>Session 11
Robotics
Room A</td><td>Chairs : Samir Nejim & Hassène Gritli
09:30-09:50 Mechanical Design and Control of an Underwater Robot for Pitch and Roll Stability, Saber Hachicha, Chiheb Zaoui, Yassine Rabhi, Habib Dallegi, Samir Nejim and Aref Maalej
09:50-10:10 Model Predictive Control of a Three Degrees of Freedom Manipulator Robot, Samir Bouzoualegh, El Hadi Guechi and Youcef Zennir
10:10-10:300 Robotics based Solution for Data Center E-Monitoring, Labib Sadek Terrissa, Soheyb Ayad and Noureddine Zerhouni
10:30-10:50 Computer aided decision model to control an exoskeleton-upper limb system, Sana Bembli</td></tr>
<tr><td>Session 12
Power Electronics & Power Systems
Room B</td><td>Chairs : Souad Chebbi & Salwa Elloumi
09:30-09:50 Study and Analysis of the (SVM) Techniques for an Indirect Matrix Converter (IMC), Abdessami Soyed, Lazhar Rmili, Othman B.K Hasnaoui and Faouzi Bacha
09:50-10:10 Analysis and Modeling of LLC Resonant Converter Used in Electric Vehicle, Mansour Amari, Hajer Marzougui, Faouzi Bacha and Jamel Ghouili
10:10-10:30 On the definition of voltage THD bounds for three and single phase multilevel inverters Abir Rehaoulia, Habib Rehaoulia and Farhat Fnaiech
10:30-10:50 Study, Modeling and Simulation of a Hybrid Propulsion System of a Ship, Issam Hemdana, Hamadi Bouaicha, Habib Dallagi, Chiheb Zaoui and Samir Nejim</td></tr>
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<tr><td>Session 13
Automatic Control Systems
Room A</td><td>Chairs : Mohamed Benrejeb & Safya Belghith
11:10-11:30 Sensor fault tolerant controller for nonlinear systems based on an uncoupled state multiobserver, Sondess Mejdi, Anis Messaoud and Ridha Ben Abdennour
11:30-11:50 Interval Observer Design for Network Controlled Systems, Afef Najjar and Messaoud Amairi
11:50-12:10 Stability analysis of Distributed Model Predictive Control applied to a three tank system Hajji Nadia, Saber Maraoui, Larbi Chrifi-Alaoui and Kais Bouzrara
12:10-12:30 Stream Cipher from Chaotic Systems and High Gain Observers, Ines Daldoul and Ali Sghaier Tlili</td></tr>
<tr><td>Session 14
Manufacturing Engineering
Room B</td><td>Chairs : Noureddine Zerhouni & Mohamed Tlili
11:10-11:30 Data Envelopment Analysis for Care Production Efficiency Measurement in Ambulatory Care Departments, Najla Aissaoui Omrane, Aymen Manai, Safa Bhar Layeb, Jouhaina Chaouachi and Chokri Hamouda
11:30-11:50 Syntactic and semantic measures to evaluate similarity of risk scenarios in manufacturing systems, Nawel Bayar, Sonia Hajri-Gabouj and Saber Darmoul.
11:50 -12:10 Fuzzy Monitoring Approach based on P-time Petri Nets of manufacturing Systems with Time Constraints, Mouhaned Gaied, Anis M'halla and Kamel Ben Othmen
12:10-12:30 Active Teaching of Project Management through Tutorials, Mohamed Najeh Lakhoua</td></tr>
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14:00 - 15:20	Parallel Sessions VIII	
	Session 15 ***Embedded and Communication Engineering*** *Room A*	**Chairs : Labib Terrissa & Mohamed Boulouird** ***14:00-14:20*** ***FPGA based unified compact architecture for supporting operations of ECC and AES algorithms,*** *Amal Hafsa* ***14:20-14:40*** ***Fast and Accurate Model to Determine the Resonant Characteristics of Elliptical Microstrip Patch,*** *Ahmed Mahamdi, Siham Benkouda and Sami Bedra* ***14:40- 15:00*** ***Artificial Neural Network Model for The Analysis of Tunable Circular Microstrip Patch*** *Ahmed Mahamdi, Siham Benkouda and Sami Bedra* ***15:00-15:20*** ***Comparative Analysis of QoS aware Network Coding Protocols in WSNs,*** *Sghaier Amra Sghaier*
	Session 16 ***LMIs for Advanced Control and Observer Design*** *Room B*	**Chairs : Naceur Benhadj Braiek & Samir Nejim** ***14:00-14:20*** ***LMI-Based Design of Robust Static Output Feedback controller for Uncertain Linear Continuous Systems,*** *Hassène Gritli, Safya Belghith and Ali Zemouche* ***14:20-14:40*** ***Nonlinear Unknown Input Observer Using Mean Value Theorem and Simulated Annealing Algorithm,*** *Ramzi Ben Messaoud* ***14:40-15:00*** ***LMI-Based Robust Position Control of an Impacting Oscillator with Double-Side Asymmetric Rigid Constraints,*** *Firas Turki, Hassène Gritli and Safya Belghith* ***15:00-15:20*** ***Static Output Feedback Control of Discrete-Time Linear Systems: Background Results and New LMI Conditions,*** *Hassène Gritli, Ali Zemouche and Safya Belghith*
15:20 – 15:40	**Coffee Break**	
15:40 – 17:00	Parallel Sessions IX	
	Session 17 ***Automatic Control Systems*** *Room A*	**Chairs : Naceur Benhadj Braiek & Ali Tlili** ***15:40-16:00*** ***An Intelligent Combination Method for Static Security Assessment ,*** *Hajer Jmii, Asma Meddeb, Souad Chebbi and Mohamed Abbes* ***16:00-16:20*** ***Design of a Fuzzy Immune Fractional PIλDμ to Control Hydro-Viscous Soft Start Device of a Belt Conveyor,*** *Sofiane Gherbi, Benharkou Ibtihal and Lamine Mehennaoui* ***16:20-16:40*** ***Green Energy Optimization in Smart Agriculture,*** *Soheyb Ayad and Labib Sadek Terrissa* ***16:40-17:00*** ***Adaptive neural control based on fuzzy adapting rate for nonlinear systems,*** *Fatma Ezzahra Rhili, Asma Atig and Ridha Ben Abdennour*
	Session 18 ***Signal & Image processing*** *Room B*	**Chairs : Fréderic Falzon & Slim Yakoub** ***15:40-16:00*** ***Towards a Semantic Video Analysis using Deep Learning and Ontology,*** *Jemai Bornia, Frihida Ali, Mahmoudi Sidi Ahmed and Manneback Pierre* ***16:00-16:20*** ***Characterization of Dementia by 3D Analysis of Cerebral Structures,*** *Nour El Houda Mezrioui, Kamel Aloui and Saber Naceur* ***16:20-16:40*** ***Pre-processing Technique for Automatic Document Categorization,*** *Chaima Bennour and Thouraya Merazi Meksen* ***16:40-17:00*** ***Excess loop delay compensation techniques in continuous-time ΔΣ modulators,*** *Soumaya Azzouni, Nizar Khitouni and Med Salim Bouhlel*

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<tr><td>Session 19
Automatic Control Systems

Room A</td><td>Chairs : Mohamed Benrejeb & Samir Nejim
08:30-08:50 Equalization of a satellite communication channel by the S-PARAFAC Volterra model Saidi Mejda, Khouaja Anis and Messaoud Hassani
08:50-09:10 Sensor fault detection using a new online reduced rank kernel PCA: application to an air quality monitoring network, Hajer Lahdhiri, Maroua Said and Okba Taouali
09:10-09:30 Conception and realization of a parabolic dish, Djallal Eddine Mahdi Benbaziz, Abdellatif Hassini and Mohamed Ramdani
09:30-09:50 Monitoring nonlinear system using Bond Graph and PCA method, Maroua Said, Hajer Lahdhiri and Okba Taouali
09:50-10:10 Comparative study based on KPCA and KPLS monitoring techniques using the Chemical Stirred Tank Reactor (CSTR) nonlinear process, Maroua Said, Hajer Lahdhiri and Okba Taouali,</td></tr>
<tr><td>Session 20
Power Electronics & Power Systems

Room B</td><td>Chairs : Faouzi Bacha & Radhouane Dakhli
08:30-08:50 Sizing and multi-objective optimization of a multisource micro-grid with storage for an economic activity zone, Fethi Khlifi, Habib Cherif and Jamel Belhadj
08:50-09:10 Strategic Enhancements of Distance Relay Operating, Asma Meddeb, Nesrine Amor and Souad Chebbi
09:10-09:30 Dynamic operation and control of an islanded AC microgrid
Mohamed Abbes
09:30-09:50 Identification of the Common Mode Impedance of a DC-DC Buck Converter According to the System Earthing Arrangement, Djelloul Bensaad, Abde Chafik Hadjadj and Achour Ales</td></tr>
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