



The 7th Mediterranean Congress of Telecommunications "CMT'2019"

October 24th -25th, 2019, Fez, Morocco

<http://cmt2019.ensaf.ac.ma>



Conference Program of CMT 2019 (Provisional)

HOUR	AMPHITEATER	ROOM
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Thursday, October 24, 2019 (Faculty of Pharmacy and Medicine)

08h30 - 9h30	Reception and registration of participants	
09h30 - 10h00	Official opening of the conference	
10h00 - 10h30	Coffee Break	
10h30 - 11h15	Keynote 1 : Pr. Ahmed Lakhssassi	
11h15 - 12h00	Keynote 2 : Pr. Michel TERRE	
12h00 - 14h30	Lunch	
14h30 - 15h15	Keynote 3 : Pr. Noura AKNIN	
15h15 - 16h00	Keynote 4 : Pr. Farid Temcamani	
16h00 - 16h30	Coffee Break	
16h30 - 18h30	Oral Session A1: COMPUTER SCIENCE & INFORMATION SYSTEM	Oral Session A2: ICT FOR TELECOMMUNICATIONS
	Oral Session A3: MICROELECTRONICS	Oral Session A4: ANTENNAS AND ASSOCIATED TECHNOLOGIES

Friday, October 25, 2019 (Faculty of Pharmacy and Medicine)

08h30 - 9h00	Reception	
09h00 – 09h45	Keynote 5 : Pr. Catherine ALGANI	
09h45 – 10h30	Keynote 6 : Pr. Ahmed Boutejdar	
10h30 - 11h00	Coffee Break	
11h00 – 13h00	Oral Session A5: COMMUNICATION AND COMPUTER NETWORKS	Oral Session A6: ICT FOR TELECOMMUNICATIONS
13h00 – 15h00	Lunch	
15h00 – 15h45	Keynote 7 : Pr. Aissam BERRAHOU	
15h45 – 16h15	Coffee Break	
16h15 – 18h15	Oral Session A7: COMPUTER SCIENCE & INFORMATION SYSTEM	Oral Session A8: INSTRUMENTATION AND MEASUREMENTS
	Oral Session A9: COMMUNICATION AND COMPUTER NETWORKS	Oral Session A10: ANTENNAS AND ASSOCIATED TECHNOLOGIES

Keynote Talks

Keynote 1 AMPHITEATER	Improving human health: Challenges and Methodology for controlling thermal doses during Cancer therapeutic treatment Pr. Ahmed LAKHSSASSI, Responsible of the LIMA laboratory CANADA, Université du Québec (UQTR).	Thursday 10h30 – 11h15
Keynote 2 AMPHITEATER	The Challenges of Future IoT Waveforms Pr. Michel TERRE, ESYCOM Laboratory at CNAM in Paris, France	Thursday 11h15 – 12h00
Keynote 3 AMPHITEATER	Challenges and Opportunities of Digital Transformation for Innovative Learning Pr. Noura AKNIN, Professor of Electrical & Computer Engineering at Abdelmalek Essaadi University, Morocco.	Thursday 14h30 – 15h15
Keynote 4 AMPHITEATER	Fiabilité et défaillance de tags RFID UHF Pr. Farid Temcamani, laboratoire QUARTZ EA 7393, Ecole Nationale Supérieure de l'Electronique et de ses Applications (ENSEA) à Cergy, France	Thursday 15h15 – 16h00
Keynote 5 AMPHITEATER	RoF architectures : Component modelling for high data rate wireless communication Pr. Catherine ALGANI, ESYCOM Laboratory at CNAM in Paris, France	Friday 09h00 – 09h45
Keynote 6 AMPHITEATER	Design Simulation and Manufacturing of compact Microstrip-DGS Filters: Technologies and Applications Pr. Ahmed Boutejdar	Friday 09h45 – 10h30
Keynote 7 AMPHITEATER	Deep learning Applications, concepts and architectures Pr. Aissam BERRAHOU, National School of Computer Science And Systems Analysis, Mohammed V University, Rabat, Morocco	Friday 15h00 – 15h45

SESSION A1	SESSION ORALE A1 (16h30 – 18h30) : COMPUTER SCIENCE & INFORMATION SYSTEM	
	Chairs :	
Thursday, October 24, 2019 ROOM 1	LAND COVER INTELLIGENT MAPPING USING TRANSFER LEARNING AND SEMANTIC SEGMENTATION Zouhair Benbahria, Imane Sebari, Hicham Hajji and Mohamed Faouzi Smiej	
	Data traceability management for quality assurance of big data analytics software systems Othmane Rahmaoui, Kamal Souali and Ouzzif Mohammed	
	AWSCPM: A FRAMEWORK FOR AUTOMATION OF WEB SERVICES COMPOSITION PROCESSES Nouha Adadi, Mohammed Berrada, Driss Chenouni and Mohamed Halim	
	IDENTIFICATION OF CARDIOVASCULAR DISEASES USING MACHINE LEARNING Nabaouia Louridi, Meryem Amar and Bouabid El Ouahidi	
	COLLABORATIVE ONTOLOGY AUTHORIZING IN THE DOMAIN OF THE QURAN KNOWLEDGE Hamza Kharrazi and Said Raghay	

SESSION A2	SESSION ORALE A2 (16h30 – 18h30) : ICT FOR TELECOMMUNICATIONS	
	Chairs :	
Thursday, October 24, 2019 ROOM 2	Microwave Imaging for Early Breast Cancer Detection using CMI Nirmine Hammouch and Hassan Ammor	
	Study and design of an antenna array for RFID reader application in ISM band Assiya Amri and Tomader Mazri	
	Design of Bandpass Filter for C Application with Improved Selectivity Sanae Azizi, Mariam El Gharbi, Saida Ahyoud and Adel Asselman	
	An Ultra-Wide Stop-Band LPF Based on Defected Ground Structures Mohammed Moulay and Mehadji Abri	
	MODELING OF AN OBSTACLE DETECTION CHAIN IN A VEHICULAR ENVIRONMENT Dounia Daghoul, Said Mazer, Younes Balboul, Atika Menhaj and Laila Sakkila	
	Characterization of Ultra Wide Band indoor propagation Maroua Abdellaoui and Mohammed FATTAH	

SESSION A3		SESSION ORALE A3 (16h30 – 18h30) : MICROELECTRONICS	
		Chairs :	
Thursday, October 24, 2019	ROOM 3	5.8 GHZ RECTENNA USING DIELECTRIC RESONATOR ANTENNA Sara El Mattar, Abdennaceur Baghdad and Abdelhakim Ballouk	
		Dual Power Source Switching Control to Li-Ion Battery Charger for Medical Power System Applications Mounir Ouremchi, Ahmed Rahali, Abdellali El Boutahiri, Karim El Khadiri, Ahmed Tahiri, Hassan Qjidaa and Ahmed Lakhssassi	
		HIGH EFFICIENCY RECTIFYIER CIRCUIT FOR AMBIENT RF ENERGY HARVESTING APPLICATIONS AT 5.8 GHZ Almorabeti Soumaya, Mounir RIFI, Hanae Terchoune and Jamal Zbitou	
		COMPARATIVE STUDY BETWEEN HARTLEY AND COLPITTS VCO FOR 5G MM-WAVE BAND APPLICATIONS Abdelhafid Es-Saagy, Maryam Abata, Said Mazer, Mahmoud Mehdi, Imane Halkhams and Catherine Algani	
		Detection of Bio-Particles Using Magnetic Beads in a Microelectronic/Microfluidic Hybrid Microsystem Mounir Ouremchi, Ahmed Rahali, Abdellali El Boutahiri, Karim El Khadiri, Ahmed Tahiri, Ahmed Lakhassassi and Mouna Aberkan	
		DESIGN OF A CMOS TEMPERATURE SENSOR WITH 0°C TO 120°C SENSING RANGE FOR LI-ION BATTERY CHARGER IN 180 nm CMOS TECHNOLOGY Ahmed Rahali, Mounir Ouremchi, Abdellali Elboutahiri, Karim Elkhadiri, Ahmed Tahiri and Hassan Qjidaa	

SESSION A4		SESSION ORALE A4 (16h30 – 18h30) : ANTENNAS AND ASSOCIATED TECHNOLOGIES	
		Chairs :	
Thursday, October 24, 2019	ROOM 4	Design of a High Gain Substrate Integrated Waveguide Cavity-Backed Circular Patch Antenna using Two Different Feeding Transitions Mariam El Gharbi, Sanae Azizi, Noura Aknin and Saida Ahyoud	
		BENDING EFFECT OF A RECTANGULAR THREE BAND ANTENNA Ibrahime Hassan Nejdj, Youssef Rhazi, Mustapha Ait Lafkih and Seddik Bri	
		Patch Antenna for GPS Applications Mohammed Amine Ihedrane, Seddik Bri and Adiba El Fadl	
		Conception of Frequency Reconfigurable Multi-band Antenna Belrhiti Moulay Driss, Iftissane El Mustapha, Bri Seddik and Foshi Jaouad	
		Low Profile Ultra Wide Band Hybrid Dielectric Resonator Antenna for Emergent Networks Jihad Ben Yamoun, Noura Aknin and Achraf Jaoujal	
		DESIGN OF A ANTENNA STRUCTURE FOR AN RF ENERGY RECOVERY SYSTEM ON A UAV Salah Ihlou, Hafid Tizyi, Abdelmajid Bakkali, Ahmed El Abbassi and Jaouad Foshi	

		SESSION ORALE A5 (11h00 – 13h00) : COMMUNICATION AND COMPUTER NETWORKS	
		Chairs :	
Friday, October 25, 2019	ROOM 1	5G Heterogeneous network : overview on Radio Ressource Management scheduling schemes Asmae Mamane, Mohammed El Ghazi, Gordana Barb and Marius Otesteanu	
		QoE-based Performance Evaluation of Video Transmission using RPL in the IoMT Souhila Kettouche, Moufida Maimour and Lakhdar Derdouri	
		Performance & Energy Consumption Metrics Of A Data Center According To The Energy Consumption Models Cubic, Linear, Square And Square Root Saad-Eddine Chafi, Balboul Younes	
		Comparaison between RPLRE and RPL based on OF-EHE Soukayna Riffi Boualam and Abdellatif Ezzouhairi	
		Study of the impact of failure on GRE Tunnel Dounia El Idrissi, Najib Elkamoun and Rachid Hilal	
		Dynamic Cluster Head Selection Method for Wireless Sensor Network for Agricultural Application of Internet of Things based Fuzzy C-means Clustering Algorithm Sabri Yassine, Najib El Kamoun and Fatima LAKRAMI	
		The impact of distance between neighbouring WBANs on IEEE 802.15.6 performances Marwa Boumaiz, Mohammed Fattah and Anas Bouayad	

		SESSION ORALE A6 (11h00 – 13h00) : ICT FOR TELECOMMUNICATIONS	
		Chairs :	
Friday, October 25, 2019	ROOM 2	A Survey: Centralized, Decentralized, and Distributed Control Scheme in Smart Grid Systems Sabri Yassine and Najib El Kamoun	
		Crosstalk Effect and delay Comparison Between a Mixed Carbon Nanotube Interconnect Structure and a Cu Wire Interconnect Ayoub Loumi, Hassan Belahrach and Abdelilah Ghammaz	
		Towards Designing a Microcell Base Station using a Software-Defined Radio Platform Zakaria Er-Reguig and Hassan Ammor	
		Measurement and test of a DVB-S2 satellite broadcast Youssef Bikrat, Khalid Salmi, Hajar Chadli, Benlghazi Ahmed, Abdelhamid Benali and Driss Moussaid	
		STIRLING ENGINE AND SOLAR ENERGY Oumaima Taki, Khalil Saadaoui, Kaoutar Senhaji Rhazi and Youssef Majdoub	
		A Survey of Polar Codes Issame El Kaime, Abdessalam Ait Madi and Hassane Erguig	

		SESSION ORALE A7 (16h15 – 18h15) : COMPUTER SCIENCE & INFORMATION SYSTEM	
		Chairs :	
Friday, October 25, 2019	ROOM 1	Online assessment system based on IMS-QTI specification Mohammed Boussakuk, Mohammed El Ghazi, Ahmed BOUCHBOUA and Rabah OUREMCHI	
		State of the Art : Ontology and Semantic Web in logistic applications Salma Sekkat, Habiba Chaoui and Mourad Bouneffa	
		Color image segmentation based on hybridization between Canny and k-means Khrissi Lahbib, El Akkad Nabil, Satori Hassan and Satori Khalid	
		Image Classification using Shifted Legendre-Fourier Moments and Deep Learning Abderrahmane Machhour, Mostafa El Mallahi, Ahmed Tahiri and Driss Chenouni	
		The Integrity of encryption keys of European Train Control System sessions during an offline loading Chaoui Habiba, Talebi Najoua and SEDKI Mohamed	

		SESSION ORALE A8 (16h15 – 18h15) : INSTRUMENTATION AND MEASUREMENTS	
		Chairs :	
Friday, October 25, 2019	ROOM 2	Geometrical and Analytical Methods for Probes Correction applied to Near Field Antennas Measurement Systems Chakib Taybi, Abdechafik Derkaoui, Khalid Salmi, Mohammed Anisse Moutaouekkil, Bachir Elmagroud and Abdelhak Ziyat	
		From Numerical Modeling to Didactic Simulation in Electromagnetism Khalid Salmi, Hamid Magrez, Chakib Taybi, Abdechafik Derkaoui and Abdelhak Ziyat	
		Atmospheric parameters influence on mmwave propagation in 5G communication Lamia Squali and Fatima Riouch	
		Calibration and Reducing Errors for Exposition Measurement by RF-Exposimeters Bachir Elmagroud, Abdechafik Derkaoui, Kwate Kwate Rodrigues, Abdelhak Ziyat and Dominique Picard	
		Ultra Broadband Curved Pyramidal Absorber Metamaterial in the UHF/SHF Region Zeinab Fneich, Hussam Ayad, Jalal Jomaa, Fatima Mazeh and Moncef Kadi	
		Non-invasive estimation of whole body averaged SAR by the personal RF dosimeter measurements Bachir Elmagroud, Kwate Kwate Rodrigues, Abdechafik Derkaoui, Abdelhak Ziyat, Chakib Taybi and Dominique Picard	

SESSION A9	SESSION ORALE A9 (16h15 – 18h15) : COMMUNICATION AND COMPUTER NETWORKS	
	Chairs :	
Friday, October 25, 2019	ROOM 3	A Vision for Discontinuous Link Networking for Underserved Areas Youssef Lassfar, Abderrahim Maizate, Charif Mahmoudi and Ziyati Houssaine
		Comparative study of localization methods in WSN using Cooja simulator Fatima Lakrami, Mostapha Laouafy, Ouidad Labouidya and Najib Elkamoun
		New Simulation Model for Video Transmissions in VANETs using EVALVID framework Hassan Marzouk, Abdelmajid Badri, Aicha Sahel, Abdelmounaim Kchairi Belbachir and Abdennaceur Baghdad
		A hop-by-hop Congestion Control Mechanisms in Named Data Networking – A Survey Asmaa El-Bakkouchi, Anas Bouayad and Moulhime El Bekkali
		Towards Qos enhancement in wireless network through SDN Hind Sounni, Najib Elkamoun and Fatima Lakrami
		AN EVALUATION OF MACHINE LEARNING ALGORITHMS TO DETECT ATTACKS IN SCADA NETWORK Sara Tamy, Nabila Rabbah, Mounir Rifi, Mahmoud Almostafa Rabbah and Hicham Belhadaoui
		A comparative study between ACO-based protocols and PSO-based protocols in WSN Ikram Daanoune, Abdennaceur Baghdad and Abdelhakim Ballouk

SESSION A10	SESSION ORALE A10 (16h15 – 18h15) : ANTENNAS AND ASSOCIATED TECHNOLOGIES	
	Chairs :	
Friday, October 25, 2019	ROOM 4	High Gain Planar Matrix Antenna Equipped by Large Radiating Pixels (1.2λ×1.2λ) Mahmoud Mehdi, Hussein Abou Taam Abou Taam and Ali Siblani Siblani
		Design of a high gain 2*1 patch array for fifth generation wireless applications Bilal Aghoutane, Mohammed El Ghzaoui, Hanan El Faylali and Sudipta Das
		A LOOPED SLOTS PATCH ANTENNA FOR PASSIVE UHF RFID TAGS APPLICATIONS IN METALLIC SUPPORTS Hind Raihani, Ali Benbassou, Jamal Belkadid and Mohammed El Ghzaoui
		Elliptical Slot Rectangular Patch Antenna Array with Dual Band Behaviour for Future 5G Wireless Communication Networks Mohamed Hanaoui and Mounir Rifi
		Design of Parallel-series Microstrip Patch Antenna Array at mmWave, for future 5G applications Taleb Mohamed Benaouf, Hassan Ammor and Mohamed Himdi
		Miniature microstrip antenna design for ultra-wide band applications Souad Benabdallah and Nourreddine Boukli-Hacene