

MECAP'16



IEEE Middle East Conference on Antennas and Propagation III
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MEOMAP



IEEE
Lebanon Section



Conference Program

Golden Tulip Galleria, Adnan Al-Hakim Street
Jnah District, Beirut 333-25, Lebanon

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IEEE Middle East Conference on Antennas and Propagation, 20-22 September 2016, Beirut, Lebanon

SPONSORING ORGANIZATIONS:

1. IEEE Lebanon Section
2. Lebanon IEEE Chapter AP/MTT/MAG
3. MEOMAP
4. CST

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KEYNOTE SPEAKERS

Sedki Riad

A One Semester Undergraduate EM Fields: A Bad Idea..! But..



Atif Shamim

Inkjet Printed Flexible and Disposable RF Electronics



Mohamed Shaarawi

Printed MIMO Antenna Systems and Applications



Mohamed El-Hadidy

Chipless RFID Future and Challenges



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Tuesday September 20, 2016

Day 1

Time	
8:00 AM	Registration
9:00 AM	Opening Ceremony
	Dr. Imad ElHajj, Dr. Hadia El Hennawy, Dr. Usamah O. Farrukh, Dr. Mohammed El-Hadidy
10:00 AM	Invited Speaker (I)
10:45 AM	Coffee Break
11:15 AM	Antennas and Related Topics I P10, P15, P22, P28, P37
1:15 PM	Lunch
2:00 PM	Invited Speaker (II)
2:45 PM	Antennas and Related Topics II P5, P20, P43, P2, P12
4:20 PM	Coffee Break
4:40 PM	Antennas and Related Topics III P46, P51, P3, P6
6:00 PM	Adjourn

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Wednesday September 21, 2016

Day 2

Time	Session	Concurrent Session
8:00 AM	Registration	
9:00 AM	Invited Speaker (III)	
9:45 AM	Antennas and Related Topics IV P25, P7, P8, P47,P13	Poster Session P16, P18, P30,P32
11:25 AM	Coffee Break	
11:40 AM	Antennas and Related Topics V P34, P35, P9, P50, P21, P45, P4, P38	
2:20PM	Lunch	
3:30PM	Invited Speaker (IV)	
4:15PM	Measurement/Propagation Topics P14, P27, P41, P12, P31	
5:55PM	Coffee Break	
6:10PM	General Discussion: Direction of Research and Collaboration in the ME	
8:00 PM	Gala Dinner	

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Thursday September 22, 2016

Day 3

Time	Session	Concurrent Session
8:00 AM	Registration	
9:00 AM	RF/Microwave I P33, P40, P26, P44	
10:40 AM	Coffee Break	
	Antennas and Related Topics VI P50, P39, P42, P48, P36	
12:20 PM	RF/Microwave II P17, P29, P23, P24	
2:00 PM	Lunch	
3:00 PM	Tour and Cultural program	
7:00 PM	Return to Beirut	

List of Authors

Last Name	First	Title	Pap ers				
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Ahmad	Taher		P30				
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2	Multi-Resonant Compact Patch Antenna with Fractal Slots on the Basis of Smith Chart Configuration. Dr. Ali Harmouch; Dr. Ahmad El sayed Ahmad; Mr. Ihab Hassoun
3	Compression Technique for Retrodirective Reflectors Using Transformation Optics. Mr. Hassan Haddad; Prof. Renaud Loison; Prof. Raphael Gillard; Mr. Akil Jrad; Dr. Ali Harmouch
4	A Compact Circularly-Polarized Array Based on Superdirective Elements. Mr. Abdullah Haskou; Prof. Ala Sharaiha; Dr. Sylvain Collardey
5	A Comparison between Two Different Excitations for Quasi-Yagi Antennas. Mr. Syed Jehangir; Prof. Mohammad S. Sharawi
6	Wideband Circularly Polarized Pixel antenna using special EBG Approach Building of Agile antenna ARMA for space applications. Mr. Ali Siblini; Mr. Hussein AbouTaam
7	Design of Concentric Bee-hived Antenna Array Using the Invasive Weed Optimization. Prof. Homayoon Oraizi; Ms. Batul Bahreini
8	On Secret Key Generation with Massive MIMO Antennas using Time-Frequency-Space Dimensions. Dr. Elias Yaacoub
9	Analyzing DGS behavior for a MIMO Antenna System using Theory of Characteristic Modes. Mr. Asim Ghalib; Prof. Mohammad S. Sharawi
10	A Comparison between the Antenna Current Green Function and Theory of Characteristic Modes. Mr. Asim Ghalib; Prof. Mohammad S. Sharawi
11	Energy harvesting from the electromagnetic radiation emissions by the compact fluorescent lamp. Dr. Mohamed Chaari; Mr. Mongi Lahiani; Mr. Hamadi Ghariani
12	Experimental Evaluation of Coprime Sampler in Direction of Arrival Estimation. Mr. Saleh A. Alawsh; Mr. Mohammad T Alkhodary; Dr. Ali H Muqaibel; Prof. Mohammad S. Sharawi
13	Co-prime Linear Arrays with Dipole Elements. Mr. Ahmed Abdullah Al-habob; Mr. Abderezak M Kedir; Dr. Ali H Muqaibel; Prof. Mohammad S. Sharawi
14	Feasibility of Heartbeat Detection Behind a Wall Using CW Doppler Radar. Ms. Sarah El-Samad; Dr. Dany Obeid; Dr. Gheorghe Zaharia; Prof. Sawsan Sadek; Prof. Ghais El Zein
15	Microstrip Back-Cavity Hilbert Fractal Antenna for Experimental Detection of Breast Tumors. Ms. Zahra Katbay; Prof. Sawsan Sadek; Mr. Marc Le Roy; Dr. Raafat Lababidi; Mr. Andre Perennec
16	Circularly Polarized Open Loop Antenna backed by Square AMC with Different Feeding Mechanisms. Dr. Hassan Al-Lawati; Dr. Salam Khamas

Paper	Title/Author(s)
17	Novel Composite Right/Left Handed Ferrite Metamaterials Components. Dr. Mahmoud Abdelrahman Abdalla; Dr. Zhirun Hu
18	Compact Dual Wide Band D-CRLH Three Way Power Divider. Dr. Ahmed Fawzy Daw; Dr. Mahmoud Abdelrahman Abdalla; Prof. Hadya El-Hennawy
19	Withdrawn
20	A Novel Wearable Metamaterial Fractal Antenna for Wireless Applications. Dr. Mohamed Ahmed; Dr. Abd elhamid Shalaan; Mr. Mai Fouad
21	3D Printed Helical Antenna with Lens. Mr. Muhammad Farooqui; Prof. Atif Shamim
22	Effective Permittivity of Snow for Radar Detection: Numerical Validation by the FEM Method. Mrs. Fatima Mazeher; Dr. Hussam Ayad; Prof. Fabien Ndagijimana; Mr. Ghaleb Faour; Dr. Majida Fadlallah; Dr. Jalal Jomaah
23	nsPEF characterization of a delivery device based on 1-mm Gap thin electrodes for the exposure of biological cells. Ms. Malak Soueid; Dr. Delia Arnaud-Cormos; Dr. Philippe Leveque; Ms. Nathalie Ghazi
24	Characterization and dosimetry of tem cells for bioelectromagnetic studies. Ms. Nathalie Ghazi; Dr. Ali Harmouch; Dr. Mohamad Kenaan; Ms. Malak Soueid; Dr. Delia Arnaud-Cormos; Dr. Philippe Leveque
25	A flexible inkjet printed inverted-F antenna on textile. Mr. Muhammed Karimi; Prof. Atif Shamim
26	Inkjet Printed Wireless Smart Bandage. Mr. Muhammad Farooqui; Prof. Atif Shamim
27	Near-field Measurement System with 3D Magnetic- field Probe Design for Dosimetric Applications. Mr. Kassem Jomaa; Prof. Fabien Ndagijimana; Dr. Jalal Jomaah; Dr. Hussam Ayad
28	Design of Tilted Taper Slot Antenna for 5G Base Station Antenna Circular Array. Mr. Ayman Elbacha; Dr. Remi Sarkis
29	Compact Multi-layer Band-Pass filter in Substrate Integrated Waveguide (SIW) technology. Mr. Mohamad Khalil; Prof. Mahmoud Kamarei; Mr. J. Jomaah; Dr. Hussam Ayad
30	Integrated Down Conversion Front End Subsystem With Low Conversion Loss for WiMAX Applications. Dr. Hossam Tork; Dr. Mahmoud Abdelrahman Abdalla; Mr. Taher Ahmed
31	Indoor MIMO Channel Sounding at 3.5 GHz. Dr. Hanna Farhat; Prof. Yves Lostanlen; Dr. Thierry Tenoux; Mr. Guy Grunfelder; Prof. Ghais El Zein
32	P-band Ground-based radar experiments in tropical forests. Dr. Alia Hamadi; Mr. Pierre Borderies; Mr. Thierry Koleck; Mr. Ludovic Villard
33	Design and Implementation of 10W, Highly Linear, Wideband and Efficient Power Amplifier Using harmonic Termination. Mr. Ahmed El gbily; Dr. Ayman Sobih
34	A Magnetic Nano-Particle Ink for Tunable Microwave Applications. Mr. Farhan Ghaffar; Mr. Mohammad Vaseem; Prof. Atif Shamim
35	Reconfigurable Pattern Beam Steering Loop Antenna. Ms. Sally El-Henawy; Prof. Amr Safwat; Prof. Hadya El-Hennawy

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37	Wireless Power Transmission Enhancement Using Magnetic Resonance Coupling. Mr. Maged Abdou; Dr. Ayman El-Tager
38	On-Chip Micromachined Dipole Antenna with Parasitic Radiator for mm-Wave Wireless Systems. Ms. Mai Sallam; Dr. Mohamed Serry; Prof. Atif Shamim; Dr. Sherif Sedky; Prof. Ezzeldin Soliman
39	Efficient Design Procedure of Dual-Mode Antennas Based on the Characteristic Modes Theory. Mr. Mohammad Bagheriasl; Dr. Karim Mohammadpour-Aghdam; Prof. Reza Faraji-Dana
40	Compact Wilkinson Power Divider with Inductive Loaded Microstrip Line for Harmonics Suppression. Mr. Eslam Nasr; Dr. Ayman Eltager
41	Thickness-Invariant Permittivity Determination of Materials from Calibration-Independent Measurements. Dr. Musa Bute; Dr. Ugur Hasar
42	Behavior of Different Structures to Design AMC for Europe LTE Bands. Dr. Hussam Ayad; Dr. Jalal Jomaah
43	Enhanced Properties of a novel Dual Band PIFA for GSM/WLAN Bands. Prof. Homayoon Oraizi; Mr. Hossein Omid
44	New Configuration for Multiband Ultra Compact Gap Resonator Based D-CRLH. Dr. Ahmed Fawzy Daw; Dr. Mahmoud Abdelrahman Abdalla; Prof. Hadya El-Hennawy
45	Linear to Circular Polarization Transformation of Vivaldi Antennas and Its Use in GPR Detection. Mr. Ali Al Takach; Dr. Mohammed Al-Husseini; Ali El-Hajj; Dr. Elias Nassar
46	Beamwidth Control of Sectional Waveguide Antennas using Parabolic Slotted Surfaces. Dr. Ali Harmouch; Mr. Hassan Haddad; Ms. Samara Gharbieh
47	An Overview of Research Topics and Challenges for 5G Massive MIMO Antennas. Dr. Elias Yaacoub; Dr. Mohammed Al-Husseini; Mr. Hassan Ghaziri
48	A Novel Compact CPW OCSRR Structure for 2.45 GHz Rectenna Application. Mr. Mustapha Bajtaoui; Mr. Abdelghafour Abraray; Dr. Otman El Mrabet; Dr. Mariem Aznabet; Dr. Mohammed Essaadi
49	Withdrawn
50	Massive MIMO Exploitation to Reduce HARQ Delay in Wireless Communication System. Mr. Nidal Zarifeh; Mr. Ammar Kabbani; Dr. Mohammed El-Absi; Mr. Theo Kreul; Prof. Thomas Kaiser
51	Reflectarray Antenna for Breast Cancer Detection and Biomedical Applications. Mr. Khaled Hasan; Prof. Mohamed El-Hadidy; Prof. Hisham Morsi