

Mousa I. Hussein

Electrical Engineering Department
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PERSONAL INFORMATION:

- Date of Birth: June 1, 1963
- Citizenship: Canadian
- Marital Status: Married (with five children)

EDUCATION:

- Ph.D. (EE)** University of Manitoba, Canada, May 1995.
Thesis: Time-Domain Based Finite Difference Technique and Its Applications to Electromagnetic Problems.”
- M.Sc. (EE)** University of Manitoba, Canada, May 1992.
Thesis: Scattering By A Perfectly Conducting Multi-Slotted Circular Cylinder
- B.Sc. (EE)** West Virginia Tech University, WVA, USA, May 1985

ACADEMIC RANKS & ACADEMIC POSITIONS:

Assistant Professor	Amman University, 1997-1998
Assistant Professor	United Arab Emirates University, 1998-2003
Associate Professor	United Arab Emirates University, October 2003- Present
Program Coordinator	Electrical Eng. Grad Prog. Coordinator, UAEU 2018-Present
Program Coordinator	Material Science & Eng. Grad Prog. Coordinator, UAEU 2014-2015
Program Chair	Material Science & Eng. Grad Program, UAEU 2006-2008

ACADEMIC GOALS:

Teaching:

- Undergraduate courses in electrical engineering with emphasis on electromagnetics, Microwave, Antennas, Signals and Systems, Fundamentals of Communication Theory, Special Topics in Communications,
- Graduate course in the field of microwave processing of materials, modelling, and measurements. Antennas Design, Microwave
- Updating laboratories and facilities.

Research:

- Electromagnetic modelling and simulation using FDTD, MOM, BEM and exact solution.
- Microwave processing of materials and Electromechanical behaviour of materials
- Use of magnetic field for rapid detection of pathogenic agents
- Application of Metamaterial and Plazmonic material to enhance semiconductors absorption at light frequency.
- Microwave Material Characterization
- Antenna and microwave component design for 5G and Satellite applications

ACADEMIC ACHIEVEMENTS:

- ABET-EAC Program Evaluator 2016-Present.
- ICREGA'18 Conference General Chair.
- Material Science & Engineering Graduate Program Coordinator 2014 - 2015
- Chairman of the Material Science and Engineering Master program 2006-2008.
- Head of the **Assessment** committee in the Electrical Engineering department. Duties include preparing the EE programs for **ABET** accreditation, and prepare ABET report. Actually the EE department was granted the ABET accreditation in 2004, 2010, and 2016.
- Head of the engineering college educational outcome assessment committee. Duties of the committee include preparing orientation seminars for new faculty members in the Engineering college about **ABET** and outcome assessment procedures, and making sure that all engineering programs are following the assessment procedures. 2006-2008
- Head of the curriculum committee at the EE department 2005-2011
- Head of the engineering college "Teaching innovation and Laptop" committee. 2006-2008
- Acquired several external research funds from industry worth of about 3 MAED.
- Supervising several MSc and PhD students.
- Supervised undergraduate students during Summer Research Training (SURE 2015, 2016, and 2018)
- Teaching undergraduate and graduate courses.

ACADEMIC EXPERIENCE:

CURRENT RESEARCH:

1998 – Present
U.A.E. University

- Ultra wide band Antenna Design for Communication
- Nanostructured Surfaces for Microwave and Optical Applications
- Electromagnetic scattering and radiation from lossy DNG elliptical objects.
- Enhancing Semiconductors Absorption Using Plasmonic Metamaterial.
- Pathogenic Agents Detection Using Magnetic Field “, UAEU, 1 year, (26,000 AED)
- Co-PI in Multidisciplinary research project “Traceability and Bio-Security Control of Poultry Production”, UAEU, 2 Yrs. project, first year fund (96,000 AED).
- Antenna Design for Modern Small Satellite.
- Multivariable Fuzzy Inference for WLAN Localization

AWARDED RESEARCH FUND:

- Artificial Thin Nanostructured surfaces for microwave and optical applications Phase II, for Dassault Aviation. 2018 (350,000 AED) PI
- APPLICATION FOR THE SPACE SCIENCE AND TECHNOLOGY CENTER, “Developing New and Efficient Communication and Data Handling Subsystem for CubeSat Satellite”, submitted 2017, (1,198,000 AED) PI
- Nanocomposites for Aerospace Application: ADASI, Phase II, 2016 (2,587,600 AED) PI
- Artificial Thin Nanostructured surfaces for microwave and optical applications, for Dassault Aviation. 2014 (500,000 AED) PI
- Individual research proposal (25,500) 2014-2015. Accepted and agreement signed.
- Interdisciplinary Research proposal through the College of Engineering, (120,000 AED) 2014-2016. Accepted and the agreement signed
- Co-PI with Prof. Yousef Haik in project from ADASI (500,000 AED)
- Co-Pi with Dr. Falah Awwad in UAE Centre based Project (500,000 AED)

COMPLETED RESEARCH:

1998 – Present
U.A.E. University

- Electromagnetic scattering and radiation from lossy elliptical objects.
- Microwave processing of fiber reinforced composites.
- Micro-fabrication of 3-D Structures Using Electrochemical Deposition, “Applications to: Telecommunications. Microelectronics and Bio-sensors”.
- Microwave Modelling and Characterization of High-Tc Superconducting Thin Films.

1994 – 1997
Integrated Engineering
Software, Canada

- General Time Domain Model for Lossy Coupled Transmission Line with Frequency Dependent Parameters for on-chip-interconnects Applications, Tech. Rep. No. IES-RD-MH-9600, Integrated Engineering Software Inc., Winnipeg, Manitoba, Canada, Apr. 1996.
- Time Domain Model for Lossless Coupled Transmission Line for Signal Integrity Applications, Tech. Rep. No. IES-RD-MH-9501, Integrated Engineering Software Inc., Winnipeg, Manitoba, Canada, Dec. 1995.
- Computation of Current Distribution in Electro-deposition Applications Using Boundary Element Method, Tech. Rep. No. IES-RD-MH-9500, Integrated Engineering Software Inc., Winnipeg, Manitoba, Canada, Apr. 1995.

1989 – 1995
U. Of Manitoba

- Time-Domain Based Finite Difference Technique and Its Applications to Electromagnetic Problems. Ph.D. Thesis.
- Scattering By A Perfectly Conducting Multi-Slotted Circular Cylinder. Master Thesis.

TEACHING EXPERIENCE:

1997 – present
U.A.E. University, U.A.E.

- Graduate Courses:
Microwave processing of material, Independent studies in Electrical material, Analytic Techniques in Engineering, Antenna Design & Application, and Microwave Engineering
- Undergraduate Courses:
Business Telecommunication and Networks, Digital Logic Design, Engineering Electromagnetics, Electromagnetic Waves, Math and Engineering Application III, Digital Telephony and networks, Microwave Engineering, Antennas, Signals and Systems, Communication Theory.
- Developed laboratory experiments for Digital Logic Design, and Digital Telephony.
- Supervising the communications Lab., Coordinator of High Frequency Laboratory.
- Certified CISCO Instructor.

1997 – 1998
Amman University
Amman, Jordan

- Instructor for the following undergraduate courses: Communication Systems, Electromagnetics, Electromagnetic Waves, Signals and Systems, Measurements and Instrumentation, Data communication & Networks.

STUDENT SUPERVISION:

Ph.D. Supervision: Supervising:

- Indu Jiji Rajmohan, Multi-Band Antenna Design
- Marwan Alakhras, "Fuzzy Approach Based Wireless Modelling" Co-supervisor with (Dr. Mourad Oussalah, The University of Birmingham, UK).

M.Sc. Supervision: Supervised the following Master students:

- Mohamed Osama Ali, "Microwave processing of fiber reinforced composites." Completed Jan. 2004
- Thamer Mousa Badarnih, "Microwave Modelling and Characterization of High-Tc Superconducting Thin Films.", Jan., 2006.
- Mohammed Ismaeel Shekfa, "Magnetometry for Rapid Detection of Pathogenic Agents", 2011.
- Razan Najm, "Enhancing Semiconductors Absorption Using Plasmonic Metamaterial", 2014.
- Ali Hakam, "Planar Ultra-Wideband Elliptical Antenna for Communication Applications", 2016
- Elham Serria, "Enhancing Antenna Performance using SRR Metamaterial, 2019
- Mayar Kamal, "Indoor Network Localization based on RSS and K Nearest Neighbors (KNN) algorithm."
- Nadin Al Rayis, Metamaterial for Novel Sensor Development, 2019
- Muhammed Kallumottakkal, under preparation
- Mohammad Abu AlHajja, under preparation

98 – present
U.A.E. University, U.A.E.

Undergrad. Supervision: Supervised graduation projects and students thesis work. Among the supervised thesis topics are:

- A novel Descaling-Desalting water filter using Electromagnetic/ Electrostatic Orthogonal Fields
- Parallel Interface Design for Wireless LAN
- Development of an Interactive Distance Course
- Phased Array Beam Pattern Analysis and Design for GSM and Mobile Communication.
- Network Traffic Monitoring Tool

COMMITTEES MEMBERSHIP:

Active member in the following committees:

Society: Active member in the following committee
UAE Standardization and Metrology Authority-Electrical Branch (chair, 2004/present).

University: Active member in the following committees:

- College of Medicine Inventory Committee (Chair, 1999)
- Network Evaluation and Receiving Committee (Member, 2000/Present)
- Wireless Network Evaluation Committee. (Member, 2001/2002).
- Material Science and Engineering Graduate Program Coordinator (2006-2008, 2014- Present)
- General Education Committee (2010-2013) & (2015-2017)

College of Engineering: Active member in the following committees:

- Member of the College of Engineering Council (2006-2008)
- Head of innovative teaching and Laptop committee. (2006-2008)

1998 – present
U.A.E. University, U.A.E.

- First Year Engineering Advising Committee (Member, 99/2009)
- Member of College curriculum Committee

EE Department: Active member in the following committees:

- Department Curricula committee. (Member, 99/2011)
- EE Annual Report Committee (Member, 99/2000)
- ABET Outcome assessment committee. (Member, 99/Present)
- New applicant screening and Nomination committee.
- Educational outcome assessment committee (chair, 2003/2005)
- Department ABET committee/Chair (2003/Present)

SCIENTIFIC CONSULTATION & PROFESSIONAL DUTIES

1998 – present
U.A.E. University, U.A.E

- ABET-ECA Evaluator
- Chair of the UAE Standardization and Metrology Authority- Electrical Branch.
- Vice Chair of IEEE-UAE MTT-S Chapter
- IEEE Senior Member
- ABET Advisory Board for Al-Ain University of Science and Technology.
- Developed New Electrical Engineering and Communication Engineering curriculum at UAE University, 2006.
- Developed Master Program in Electrical Engineering at UAE University, 2007
- Developed Electrical Engineering Program and Curriculum for Abu Dhabi University (2008)
- External examiner for the University of Sharjah Research Center.
- Member of the Program Technical Committee of the First International Energy Conference (IEC 2000), Organized by the College of Engineering at UAE University, May, 2000.
- Member of The Applied Computational Electromagnetic Society conference technical committee (ACES).
- External examiner for many master theses at UAE university..
- Member of IEEE-MTT technical committee.
- Served as technical committee member in many international conferences.

INDUSTRIAL EXPERIENCE:

1994 – 1997
Integrated Engineering
Software, Canada

- Senior Research and Development Engineer.

1985 – 1989
Kuwait TV, Kuwait

- Maintenance and Development Engineer.
- TV Studios supervisor
- Experience on Video Mixers, Audio Consoles and Cameras

TECHNICAL SKILLS:

- Experience with Numerical Electromagnetic Codes (NEC), FDTD method, XFDTD and Z-land, used for engineering problems simulation, HFSS, ADS, CST.
- Programming languages: FORTRAN, Visual Basic and C.
- Certified CISCO Instructor
- Experience with computer operating systems: UNIX, WINDOWS.

MEMBERSHIP AND AFFILIATIONS:

- Senior Member of IEEE-AP and MTT.
- Member of the editorial board of IEEE Transaction on Microwave Theory and Techniques (MTT).
- Member of Editorial Board for SOJ Materials Science & Engineering
- Member of the editorial board of IEEE Transaction on Antennas and Propagation (AP).
- Member of the editorial board of the Applied Computational Electromagnetic Society journal (ACES).
- Member of the editorial board of the IET Microwaves, Antennas & Propagation
- Member of the editorial board of the International Journal of Modelling and Simulation
- Member of the editorial board of the Journal of Electromagnetic Waves and Applications Progress in Electromagnetic Research (PIER, PIER B,C,M, PIER Letters)

REFERENCES:

Prof. Yousif Haik yohaik@hbku.edu.qa
Prof. A-K Hamid AKHAMID@sharjah.ac.ae
Prof. Amjad Omar amjad.omar@aurak.ac.ae
Prof. A. Sebak abdo@ece.concordia.ca

LIST OF PUBLICATIONS:

Book Chapters:

Evaluation of Mobile Learning Project at the UAE University: College of Engineering Case Study, Chapter 5, in the Book: Assessing the Role of Mobile Technologies and Distance Learning in Higher Education, IGI publishing company, 2015.

DOI: 10.4018/978-1-4666-7316-8, ISBN13: 9781466673168, ISBN10: 1466673168, EISBN13: 9781466673175

The Study of Multi-temporal Analysis of Urban Development and Environmental Changes of the City of Abu Dhabi, Chapter 2, in the Book: Global Changes and Natural Disaster Management: Geo-information Technologies, 2017.

DOI 10.1007/978-3-319-51844-2, ISBN 978-3-319-51843-5, ISBN 978-3-319-51844-2 (eBook)

Fuzzy Sets and Game Theory in Green Supply Chain: An Optimization Model, in the Book: Intelligent Computing, Springer, Vol. 1, 149-164, 2019. DOI 978-3-030-22871-2_12, © 2019

Publications in specialized refereed international periodicals:

- [J1] JS Kasim, MSM Isa, Z Zakaria, MI Hussein, MK Mohsen, "Radiation beam scanning for leaky wave antenna by using slots," TELKOMNIKA, Vol. 18, No. 3, June 2020, pp. 1237-1242. DOI: 10.12928/TELKOMNIKA.v18i3.15720.
- [J2] Marwan Alakhras *, Mousa Hussein *, Mourad Oussalah, "Location Fixing and Fingerprint Matching Fingerprint Map Construction for Indoor Localization," Hindawi, Journal of Sensors, Volume 2020, Article ID 7801752, 14 pages. <https://doi.org/10.1155/2020/7801752>.
- [J3] Rifaqat Hussain, M I Hussein, Syed Jehangir, Mohammad Sharawi, "A Frequency Reconfigurable Yagi-Like MIMO Antenna System with a Wideband Reflector," IET Microwaves Antennas & Propagation, February 2020. doi: 10.1049/iet-map.2019.0630.
- [J4] Marwan Alakhras *, Mousa Hussein *, Mourad Oussalah, "Fuzzy Sets and Game Theory in Green Supply Chain: An Optimization Model: An Optimization Model," Intelligent Computing. Advances in Intelligent Systems and Computing, vol 997. Springer, Cham, 2019
- [J5] JS Kasim, MSM Isa, Z Zakaria, MI Hussein, MK Mohsen, "Review on fixed-frequency beam steering for leaky wave antenna," TELKOMNIKA, Vol.17, No.6, December 2019, pp.2895-2902. DOI: 10.12928/TELKOMNIKA.v17i6.13291.
- [J6] Mousa I. Hussein, Dwija Jithin, Indu Jiji Rajmohan, Arjun Sham, Esam Eldin Saeed, and Synan F. AbuQamar, "Microwave Characterization of Hydrophilic and Hydrophobic Plant Pathogenic Fungi using Open-ended Coaxial Probe." Access Journal, IEEE. Vol. 7, pp 4584, March 2019, DOI 10.1109/ACCESS.2019.2908061
- [J7] Mousa I. Hussein, Falah Awwad, Dwija Jithin, Husain El Hasasna, Khawlah Athamneh and Rabah Iratni, "Characterization of breast cancer-specific dielectric signature in vitro using the open-ended coaxial probe technique from 200 MHz to 13.6 GHz." [Scientific Reports](#) 9(1):4681 · March 2019, DOI: 10.1038/s41598-019-41124-1.
- [J8] A. Omar , Sh. Naser , M. I. Hussein, N. Dib, and M. Rashad, "Superformula-Based Compact UWB CPW-Fed-Patch Antenna With and Without Dual Frequency Notches.," ACES Journal, Oct 2017.
- [J9] Amal Al Ghaferi, ZEZE D.A., Razan Radwan Nejm, Adam Sleiman, Mabrook, Mohammed, Mousa Hussein, "Electrical characteristics of hybrid-organic memory devices based on Au nanoparticles", Journal of Electronic Materials, Springer, vol. 44, No, 8, pp 2835-2841, 2015.
- [J10] M.Oussalaha, M.Alakhras, and M. Hussein, "Multivariable fuzzy inference system for fingerprinting indoor localization", Fuzzy Sets and Systems, Elsevier, pp 1-25, 2014.
- [J11] Mahmoud Al Ahmad, Ali H. Al Marzouqi and Mousa Hussien, "EXIT EXAM AS ACADEMIC PERFORMANCE INDICATOR," TOJET, volume 13 issue 3, pp 58-67, July 2014.
- [J12] R. Nejm, M. Hussein, and A. Ayesh, *A Study of the Surface Plasmon Enhancement Using ARC on Thin Film Si Solar Cell Performance*. SOJ Mater Sci Eng, 2013. 1(2): p. 5.
- [J13] A-K. Hamid and M. I. Hussein, "TM Scattering by a Perfect Electromagnetic Conducting Strip," Journal of Applied Physics A, Materials Science & Processing, Vol 103, Number 3, pp. 571-573, 2011

- [J14] M. Benkraouda, H. Ghamlouche, M.I. Hussein, and T. Badernah, "Numerical modeling of high- T_c superconducting microstrip line using FDTD technique", International Journal of Modelling and Simulation, 2010.
- [J15] M.I. Hussein, S. Al-Muhtaseb, K. El-Sawy, M. Haggag and T. Shahin "Evaluation of IT-Based Active Learning Project at the UAE University: College of Engineering Case Study", accepted for publication in Emirates Journal for Engineering Research (EJER), vol. 12, no. 1, pp. 37-42, 2007.
- [J16] M.I. Hussein, M. Benkraouda, H. Ghamlouche, and T. Badernah, "Modeling of Surface Impedance and Current Density of High- T_c Superconducting Microstrip Lines Using FDTD", WSEAS trans. On Communications, no. 1, vol. 6, pp. 39-44, 2007.
- [J17] A-K. Hamid, M.I. Hussein and M. Hamid, "Exact Radiation by Isorefractive Slotted Elliptic Cylindrical Antenna" Applied Computational Electromagnetics Society Newsletter, technical article, Vol. 22, no. 2, 2007.
- [J18] A-K. Hamid and M. I. Hussein , "Exact Radiation from Slotted Circular or Elliptical Antenna Coated by a Concentric Isorefractive Metamaterials", International Journal of Applied Electromagnetics and Mechanics, Vol. 26, No. 1-2, pp 101-111, 2007.
- [J19] A-K. Hamid and M. I. Hussein , "Iterative Solution to the Multiple Scattering by A System of Two Infinitely Long Conducting Strips", Applied Computational Electromagnetic Society (ACES) Journal, vol. 19, No. 1a, pp. 32-38, 2004
- [J20] M. I. Hussein and A-K. Hamid, "Radiation Characteristics of N-Axial Slots on a Conducting Elliptical Antenna Coated by a Lossy Dielectric Material", Canadian Journal of Physics, vol. 2, pp. 141-149, 2004.
- [J21] A-K Hamid, M. I. Hussein, M. Hamid, "Electromagnetic Scattering by a system of Dielectric Spheres Coated with a Dielectric Shell", Applied Computational Electromagnetic Society (ACES) Journal, vol. 18, No. 4, 2003
- [J22] A-K. Hamid and M. I. Hussein, "Iterative solution to the electromagnetic plane wave scattering by two parallel conducting elliptic cylinders," J. of Electromagnetic Waves and Applications, vol. 17, pp. 813-828, 2004
- [J23] A-K. Hamid, M. I. Hussein, and M. Hamid, "Radar Cross Section of a System of Conducting Spheres Each Coated with a Dielectric Layer," J. of Electromagnetic Waves and Applications, vol. 17, pp. 431-445, 2003.
- [J24] A-K. Hamid and M. I. Hussein, "Echo pattern width of a conducting strip loaded with a lossy dielectric layer", International Journal of Applied Electromagnetics and Mechanics. Vol. 18, No. 4 pp. 177-185, 2003
- [J25] A-K. Hamid and M. I. Hussein, "Scattering by lossy dielectric coated elliptic cylinder", Canadian Journal of Physics, March 2003.
- [J26] A-K. Hamid and M. I. Hussein, "Mathieu functions of complex arguments and their applications to the scattering by lossy elliptic cylinders", Applied Computational Electromagnetic Society (ACES) Journal, vol.17, No. 3, pp 209-217, Nov. 2002.
- [J27] M. I. Hussein and A-K. Hamid, "Electromagnetic Scattering by a lossy Dielectric Cylinder", J. of Electromagnets. Waves and Appl., Vol. 15, No. 11, 1469-1482, 2001.
- [J28] M. I. Hussein and A. Sebak, "Application of the Finite Difference Time Domain Method to the Analysis of Mobile Antennas," IEEE-Vehicular Technology, pp. 417-426, Aug. 1996.
- [J29] M. I. Hussein, A. Sebak and M. Hamid, "Scattering and Coupling Properties of a Slotted Elliptic Cylinder" IEEE-EMC, Feb. 1994.
- [J30] M. Ouda, M. I. Hussein, A. Sebak and Y. Antar, "Multiple Scattering by a Dielectric Cylinders using a Multifilament Current Model," J. Electromagnetic Waves and Applications, January 1993.
- [J31] M. I. Hussein and M. Hamid, "Scattering by a Perfectly Conducting Multi-slotted Cylinder," Canadian Journal of Physics, vol. 70, no. 1, pp. 55-61, Jan. 1992.

Publications in refereed Conferences:

- [C1] Aysha Mohammed Alnuaimi ; Shaikha Hamad Almansoori ; Mousa I. Hussein ; Walid Omar Ahmad Shakhathreh Miniature Dual-Band Band-Pass Filter Using Slotted Ring Resonators and Coupled lines for L and S Bands Communication, ICECTA2019, Nov. 2019, AURAK, UAE.
- [C2] Rafeea Alketbi ; Naila Alshamsi ; Mousa I. Hussein ; Walid Omar Ahmad Shakhathreh, Dual-Band Band-Pass Filter Design Using Open Loop Resonators for Satellite Communication, ICECTA2019 Nov. 2019, AURAK, UAE.
- [C3] Mahmoud Al Ahmad, Abdullellah Shaman, and Mousa Hussein, "Displacement Extraction of Piezoelectric Films." 2018 IEEE 5th International Conference on Engineering Technologies and Applied Sciences (ICETAS), Bangkok, Thailand, 22-23 Nov. 2018.
- [C4] Elham Serria, and M I Hussein, "A Novel Yin-Yang Fractal Antenna for Multiband Applications in Communication. " 22nd International Microwave and Radar Conference MIKON, Poznań, Poland, May 15-17 2018.
- [C5] Syed Jehangir, Mousa Hussein, Rifaqat Hussain, and Mohammad S. Sharawi, "A Wideband Multi-Beam Yagi based MIMO Antenna System with Multiple Parasitic Directors," The 12th European Conference on Antennas and Propagation, EuCap2018, London, UK, on 9-13 April 2018.
- [C6] Tri B. Susilo, Syed S. Jehangir, M. I. Hussein, and Addy Wahyudie, "A Plasmonic Nanoantenna Array for Solar Energy Applications." 5th International Conference on Renewable Energy: Generation and Application, ICREGA'18, Al Ain, UAE, 26-28 February, 2018.
- [C7] M I Hussein, and Elham Serria, "Metamaterial Effect on UWB Circular Microstrip Antenna." 2017 International Conference on Electrical and Computing Technologies and Applications (ICECTA), AURAK, UAE, 21-23 November 2017.
- [C8] Mousa Hussein, Othman Al Aidaros, Raahim Beg., Mohammed Al Dhahri, Sultan Al Neyadi, and Musab Asad, "Development of Autonomous Drone for Gas Sensing Application," 2017 International Conference on Electrical and Computing Technologies and Applications (ICECTA), AURAK, UAE, 21-23 November 2017.
- [C9] Indu Jiji Rajmohan, and M I Hussein, "A multiband circular-annular ring patch antenna for wireless applications," 2017 International Conference on Electrical and Computing Technologies and Applications (ICECTA), AURAK, UAE, 21-23 November 2017.
- [C10] M I Hussein, and Nadin M. Alrayes, "Design and Analysis of Stacked CNT Loaded Polyurethane Composite DRA Antenna." 2017 International Conference on Electrical and Computing Technologies and Applications (ICECTA), AURAK, UAE, 21-23 November 2017.
- [C11] Mousa I. Hussein, Indu Jiji Rajmohan, Q. Clément, N. Vukadinovic, and Y. Haik. " Synthesis and Analysis of Iron-doped CNT/PU Composites for Microwave Applications." 8th International Conference on Nanomaterials: Application & Properties, 9-14 September, 2017, Ukraine.
- [C12] I. J. Rajmohan, M. I. Hussein, Q. Clément, N. Vukadinovic, "Polyurethane-MWCNT nanocomposite for RAM applications," Nanotech France 2017 International Conference and Exhibition, 28 Jun - 30 Jun 2017, Paris - France
- [C13] M. I. Hussein, Elham Serria, Ali Hakam and Indu Jiji Rajmohan, "Split Ring Resonator with Rotated Inner Ring for Microstrip Circular UWB Antenna," The 11th European Conference on Antennas and Propagation, EuCap2017, Paris, France, on 19-24 March 2017.

- [C14] Mousa Hussein, Othman Al Aidaros, Mahmoud Khalil, Sultan Al Neyadi, and Musab Asad, "Single Port Bio-Sensor Design Using Metamaterial Split Ring Resonator." 5th International Conference on Electronic Devices, Systems and Applications (ICEDSA-2016), 6-8, December, 2016, AURAK, UAE.
- [C15] Dwija Jithin, M. I. Hussein, Falah Awwad, and Rabah Irtini, "Dielectric Characterization of Breast Cancer Cell Lines Using Microwaves." 5th International Conference on Electronic Devices, Systems and Applications (ICEDSA-2016), 6-8, December, 2016, AURAK, UAE.
- [C16] Ahmed Mashood, Ahmed Dirir, Mousa Hussein, Hassan Noura and Falah Awwad, "Quadrotor Object Tracking using Real-Time Motion Sensing." 5th International Conference on Electronic Devices, Systems and Applications (ICEDSA-2016), 6-8, December, 2016, AURAK, UAE.
- [C17] Indu Jiji Rajmohan and M. I. Hussein, "A multiband planar antenna Design using hexagonal patch and a resonator slot." 5th International Conference on Electronic Devices, Systems and Applications (ICEDSA-2016), 6-8, December, 2016, AURAK, UAE
- [C18] M. I. Hussein, Elham Serria and Ali Hakam," SRRs Effect on Circular Antenna with Elliptical Rings for Ultra-Wide-Band". The "16th Mediterranean Microwave Symposium (MMS2016), , Abu Dhabi, 14 – 16 November, 2016.
- [C19] M. I. Hussein, Ali Hakam, Mohamed Ouda, Raed Shubair, "Compact Low-Profile Planar Elliptical Antenna for UWB Applications", The 10th European Conference on Antennas and Propagation (Eucap 2016), Davos, Switzerland, 10-15 April 2016.
- [C20] Ali Hakam, M. I. Hussein, Mohamed Ouda, Raed Shubair, Elham Serria, "Novel Circular Antenna with Elliptical Rings for Ultra-Wide-Band," The 10th European Conference on Antennas and Propagation (Eucap 2016), Davos, Switzerland, 10-15 April 2016.
- [C21] M. I. Hussein, Ali Hakam, Mohamed Ouda, "Planar Ultra-Wideband Elliptical Antenna for Communication Applications," IEEE Wireless Communications and Networking Conference (WCNC'16), Doha, Qatar, 3-6 April 2016.
- [C22] Huda M. Hussein, M. I. Hussein, "The study of Multi-Temporal analysis of Urban Development and Environmental Changes of the city of Abu Dhabi," 7th GiT4NDM & the 5th EOGC International Conference, UAE University, Al-Ain, UAE, December 8-10, 2015.
- [C23] M.Alakhras, M.Oussalaha and M. Hussein, "ANFIS: General Description for Modeling Dynamic Objects", 2015 12th IEEE/ACS International Conference on Computer Systems and Applications (AICCSA), Accepted, November 17-20, 2015, Marrakech, Morocco.
- [C24] M. Alakhras, M. Oussalah, M.I. Hussein, "Fuzzy Inference with Parameter Identification for Indoor WLAN Positioning", The 2015 International Conference of Wireless Networks, London, U.K., 1-3 July 2015.
- [C25] M. I. Hussein, " Scattering by a Cylindrical Dielectric Shell with DNG Metamaterial," META 2014 CONFERENCE, 20 – 23 MAY 2014, SINGAPORE
- [C26] Razan Najm, Mousa Hussein, Ahmed Ayesh, " A Study of the Surface Plasmon Enhancement using ARC on Thin Film Si Solar Cell performance ", the 10th HONET-CNS International Conference , Maqusa, Cyprus, 11-13 Dec., 2013.
- [C27] Razan Najm, Mousa Hussein, Ahmed Ayesh, "Design Consideration for Plasmonic Solar Cells Based on Ag Nanoparticles", the 4th International Conference on Metamaterials, Photonic Crystals and Plasmonics META, April 2013, Sharjah, UAE.

- [C28] Razan Najm, Mousa Hussein, Ahmed Ayesh, "Characteristic of Plasmonic Solar Cells absorption efficiency based on Ag Nanoparticles", The 5th International Workshop on Advanced Materials (IWAM-2013), February 24-26, 2013, Ras Al Khaimah, UAE
- [C29] M. ALAKHRAS, M. Hussein, M. Oussalah, "Multivariable Fuzzy Inference with Multi Nearest Neighbour for Indoor WLAN Localization Based on RSS Fingerprint", UKSim-AMSS 15th International Conference on Modelling and Simulation, 10-12 April 2013, Cambridge University, UK.
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