CURRICULUM VITAE

MOHAB ABD-ALHAMEED MANGOUD



Professor of Electrical and Computer Engineering
(AI, IoT, Telecommunications & Networking)
Department of Electrical and Electronics Engineering
College of Engineering, University of Bahrain (UOB)
Sakhir, Kingdom of Bahrain
Office: (+973) 1743 6261 |P.O. Box: 32038
Mobile: **(+973) 3333 2771**
Email**:** mmangoud@uob.edu.bh
mmangoud@ieee.org
URL:// mangoud.com

KEY LEADERSHIP ROLES (2026)

IEEE R8 (EMEA) MD Committee Chair
Member of IEEE MGA MRRC Committee
Member of IEEE R8 Section Vitality Committee
Chair, IEEE ComSoc Global Sister Chapters Program (2023-date)
Postgraduate Studies Chair, EE Department, UoB
Chair, Scientific Research Committee, College of Engineering, UoB
Founder & Past Chair/Vice-Chair, IEEE ComSoc Bahrain Chapter
NCAAA Evaluator /ABET Consultant

MAJOR ACCOMPLISHMENTS AND CAREER HIGHLIGHTS

- **33 years** of active research in Electrical and Computer Engineering. (Telecommunications, AI, Deep learning Applications, IoT, Routing Protocols, Applied Electromagnetics, Antennas Design and Advanced Numerical and Optimization Techniques).
- **25+ years** of teaching experience of telecommunications and electronics courses in UK, USA, Egypt and Bahrain.
- Promoted to the rank of **Full Professor** @ March 2018
- **100+ Published papers** in various indexed international Journals and conferences and supervised **30+ Ph.D & M.Sc Students.**
- **Chair** of Scientific Research and Publications Committee, College of Engineering @ UOB.
- **Postgraduate Programs Chair** of Electrical Engineering Department – 5 Programs (EEE Ph.D, M.SC: AIS, PSE, REE, TNE)
- **Program chair** of communications major (for both undergrad and postgrad) and **Director** of telecommunications, IoT laboratory.
- **Chair** of IEEE R8 Membership Development committee (for Middle east, Africa, and Europe) 2025-2026.
- **Program manager** of global IEEE ComSoc Twin Chapters Program (2023 & 2024).
- **Chair/Founder** of IEEE Communications Society (ComSoc) Bahrian Chapter, [2017-date]
- **Member** of IEEE MGA MRRC Committee
- **Member** of IEEE R8 Section Vitality Committee
- **Vice-chair** of IEEE Bahrain section and student activities {Best R8 **IEEE** Outstanding Branch **Counselor Award, 2016** } coordinator (SAC), [2015-2018]. {Senior Member since 2009}
- **Awarded** many research grants and projects in US, UK, Bahrain and Euroup (EU) {Erasmus Mundas 2017-2018/ US-C-SIPA 2025}
- **Board (ExCom.) member** of Society of Excellence & Academic Research, (SEAR), Bahrain & Advisor for Egypt Scholars Inc.
- **Chair and member** of various academic, curriculum, research, administrative and ABET committees at UOB
- Technical Program Committee & Organizing committee (**TPC chair** and member): for several prestigious IEEE conferences
- Frequent reviewer for numerous IEEE Journals among others.
- **Conference General Chair**: IEEE Middle East and North Africa Communications Conference (ComSoc Conference),
- IEEE MENACOMM 2019, 19-21 November, Bahrain. [Menacomm2019.org]
- Recent Research interests: Deep Learning Applications, IoT, VANET, UAV networks, Molecular Comm.
- **Educational Expert** : National Commission for Academic Accreditation and Assessment **(NCAAA) Evaluator** /Saudi Arabia since 2019. (Participated in the reform, review, and/or Accreditation of educational programs and universities).
- **Panel member/Chair** for accrediting institutions and undergraduate and graduate programs, includingElectrical, Computer and networks Engineering and IT programs. In addition of experience of Bahrain's National Qualifications Framework (NQF) and ABET Accreditation.
- **External Reviewer** in academic promotion committees for top universities in MENA Region {including : SA, UAE, Lebanon, Egypt & Bahrain}. {Evaluated 20+ Promotions cases in the last three years}.

EDUCATION

- **Ph.D.** Electronic and Electrical Engineering, University of Bradford, UK, **March 2001,** "Hybrid Computational Electromagnetics Methods for Personal Communications Applications"
- **M.Sc.** Electrical Engineering, University of Alexandria, Egypt, **December 1995,** "Simulations of Optical CDMA communications systems"
- **B.Sc.** Electrical Engineering, University of Alexandria, Egypt, **July 1993.**

PROFESSIONAL EXPERIENCE

- **Professor (March 2018 – now)**
  Department of Electrical and Electronics Engineering, College of Engineering, University of Bahrain, Bahrain.
- **Associate Professor (March 2007 – March 2018)**
  Department of Electrical and Electronics Engineering, College of Engineering, University of Bahrain, Bahrain.
- **Adjunct Professor (Jan. 2006- 2007)**
  Virginia Polytechnic Institute and State University (Virginia Tec.), Bradley Department of Electrical & Computer Engineering, USA.
- **Assistant Professor – Associate Professor – Professor (Oct.2001 – July 2015)**
  Electronics and Communications Engineering Department, Collage of Engineering, Arab Academy for Science and Technology and Maritime Transport. (PS: Promotion application to full professor passed, Oct. 2010)
- **Part time Professor, (Sept 2012 – June 2015)**
  Bahrain Polytechnic, Engineering and Design Technologies program., Bahrain (http://www.polytechnic.bh)
- **Assistant /Associate Professor -Part time (Oct 2002 – 2006)**
  IT Department, Collage of Computer Science, AASTMT / University of Sunderland, UK
- **Tutor and Coordinator (Oct 2002 – 2006)**
  The American University in Cairo (Alexandria branch), Center for Adults and Continuing Education (CACE).
- **Senior RF Engineer (Oct. 2000- Sep. 2001)**
  Airbus Defense and Space, Stevenage, Hertfordshire, SG1 2AS, UK. Commercial satellites group /Telecom. & Navigation Division. Airbusds is Europe's No. 1 space company and a world leader in the design and manufacture of satellite systems (http://www.space-airbusds.com)
- **Senior Engineer and Principal shareholder (Mar 2000-April 2001)**
  Blue Dot Antennas Ltd (Bradford University spin-off),
- **Research Asistant and Lecturer (Jan. 1998 to Mar 2001)**
  Electronic and Electrical Engineering Department, University of Bradford, UK.
- **Assistant Lecturer and lecturer (Oct 1993 – Dec 1997)**
  Electronics and Communications Engineering Department, Collage of Engineering, AASTMT.

HONORS and AWARDS

- 1998-2001 **ORS Award for international students:** This award is granted annually, on a competitive basis, to international postgraduate students of outstanding academic ability and research potential. The Scheme is administered by the Department for Education and Skills (DfES), for all UK universities.
- 1998-2001 **University of Bradford Scholarship**: Awarded by the University of Bradford, UK, based on academic records.
- 2006-2007 **US- Egypt Higher Education Initiative (HEI), USAID funded Scholarship,** for funding mobility of Egyptian faculty to visit and cooperate with US universities.
- 2016-2017 **EU Erasmus Mundus Faculty Mobility Scholarship** (European Union Funded Project).
- 2016 **MGA IEEE Outstanding Branch Counselor Award** (3000 IEEE Student Branches in 100 Countries)
- 2024-2025 Recipient of the C-SIPA grant awarded by the U.S. Embassy and State Department

RESEARCH INTERESTS AND SPECIALIZATION

- AI, DL, Deep Reinforcment Learning for IoT applications.
- Telecommunications systems, Computer Networks (AI Based-Routing Protocols) .
- Molecular Communications and Nano-networks
- Multiuser MIMO and millimeter waves beamforming for MIMO technology.
- Cooperative and Cognitive Networks for Wireless Communications.
- Optimization techniques using evolutionary algorithms (GA, PSO, DE, Hybrid and multi-objective techniques)
- Computational Electromagnetics (FDTD/MoM) Special interest: Electromagnetic fields interaction with Human body.
- Channel modelling for 5G and IoT wireless systems (particularly interest in Home automation and VANETs)

TEACHING EXPERIENCE

- **Postgraduate, MSc Courses/PhD courses @ UOB (**Courses@mangoud.com**, Active links)**
  - AIE604 Deep learning applications (MSc)
  - EEM602 Internet of Things (MSc)
  - EEG 570 Advanced DSP
  - EEG 574 Digital Communications
  - EEG 575 Satellite Communications
  - EEG577 Wireless Communications
  - EEG 555 Computer Networks
  - ENGG 793 Research Seminars (Ph.D)
  - ENGG 794 Selected Topics in Engineering (Ph.D)
  - ENGG701/ENGG 704 Advanced Numerical Methods (PHD)

- **Undergraduate Courses @ UOB** (Courses@mangoud.com**, Active links)**
  - EENG 479 Digital Signal Processing (DSP)
  - EENG 370 Communication Systems
  - EENG 373 Communication Systems II
  - EENG 473 Mobile Communications
  - EENG453 Multimedia Systems
  - EENG 477 Antenna and Propagations
  - EENG 474 Communications Networks
  - EENG 470 Satellite communications
  - EENG 457 Computer Networks
  - EENG 491 Electrical Engineering Seminar
  - EENG 204 Computer Applications
  - EEG263 CAD for Engineers
  - EEG 264 Electronics circuits II
  - EEG 100 Circuit Theory
  - ETD 162 Electronics

- **Postgraduates Courses: ECE Department, Virginia Tech., USA (2006-2007)**
  - ECE4624 DSP & Filter Design , Spring 2006_blacksburg campus, USA (Senior, MSC, PhD)
  - ECE5984 Digital Communications for MIT students, Spring 2006_blacksburg campus, USA
  - ECE5660 Spread spectrum Communications , Fall 2006, Alexandria, Alexandria campus, Egypt (PG)

- **Undergrad. courses @ Bahrain Polytechnic:** (Courses@mangoud.com, Active links)
  - ENB 7060 Telecommunications B
  - ENB 6060 Telecommunications A
  - ENB 5000 Electrical Engineering Fundamentals

- **Undergraduates & Postgraduates Courses taught at AASTMT (2006-2007)**
  - EC231: Communication theory.
  - EC331: Analog Communication Systems.
  - EC423: Digital Communication Systems.
  - EC443: Antennas and Wave Propagation.
  - EC552: Modern wireless communications.
  - EC553 Optical communications
  - EC241 Digital Logic Design
  - EC342 Computer Organization
  - EC451 Microprocessors
  - EC744 Advanced wireless communications
  - EC723 Satellite communications
  - EC745 Telecommunication Networks

- **The American University in Cairo Programs - AUC (Alexandria branch) 2001-2007**
  - Coordinator for Electronics PCB software courses.
  - MATLAB for Engineering I & MATLAB for Engineering II (Advanced)

- **Teaching Assistant (TA) University of Bradford, UK (1998-2001)**
  - Antenna design using CAD (M.SC Course)
  - Electronic Circuits
  - Digital Communications.
  - Structure Programming using C.

UNIVERSITY SERVICES AND ADMINSTRATIVE CONTRIBUTIONS

- **Chair** of Postgraduate Committee (PGC), EE Department, UOB {Jan 2024 – **date**}
- **Chair** of Scientific Research and Publications Committee, College of Engineering, {Sept 2020-date}
- **Chair** of Conferences Committee, College of Engineering, {Sept 2017-2023}
- **Chair** of Communications Group, EE Department, UOB {Sept 2008 – **date**}
- **Director** of Communications, Optics, Antennas and Microwave Lab, EE Department, UOB {Jan 2009 - **date**}
- **Chair** of Senior Projects Committee, (SPC), EE Department and **Chair** of College of Engineering SP committee, UOB {Sept 2015 – **2018**}
- **Chair** of Lab Development Committee, (LDC), EE Department, UOB {Sept 2011- Aug 2015}
- **Chair** of Recruitment Ad-Hoc Committee, EE Department (UOB), {Sept 2015 - Sept 2016}
- **Member** of a Promotion Committee in EE department (UOB) {April 2008 - April 2012} & {April 2008 - **date**}
- **Member** of Department Academic Committee, (DAC), EE Department, UOB {Jan 2014 – June 2016}
- **Member** of Research Committee, (RC), EE Department, UOB {Jan 2013 – June 2015}
- **Member** of Accreditations and ABET Committee, (QAC), EE Department, UOB {2009 - 2015}
- **Member** of Planning and Development Committee, (PDC), EE Department, UOB {Sept 2009- June 2016}
- **Advisor** of undergraduate and postgraduate students EE, UOB (30+ students per semesters per semester) {Sept. 2007 – **date**}
- **Member** of ABET and Quality Assurance Committee/ad-hoc Committee {three accreditations: 2008-2014-2020}
- **Examiner** for M.Sc. in Engineering Management program, College of Engineering, UOB. {June 2012}
- **Examiner** for M.SC of college of Science, UOB and AASTMT. {Sept 2008}
- **Examiner** for M.SC in electronics engineering program and B.SC final Projects, UOB. {2008-date}
- **Examiner** for UOB admission and new intake interviewer. {2014-2017}
- **Chair of** academic advising and registration committee, EC department, AAST (enrollment 1500 students) {2002-2007}
- **Chair** of undergraduate program @ AASTMT. {2002-2007}
- **Coordinator** of graduate Program final year projects for the EC department, collage of Engineering @ AASTMT {2005-2007}
- **Member** of IET and ISO 9001 accreditation committee for EC department, AASTMT, {2005-2007}.

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- **Chair** of IEEE R8 (EMEA) MD Committee **(The only IEEE memebr representing Bahrain on IEEE R8 board & EMEA reginal)**
- **Program Chair,** IEEE Global ComSoc Sister Chapters Program
- **Founder** and **Chair** of IEEE Commmunications Society (ComSoc) Bahrian Chapter (2015-2022)
- **Vice-chair** of IEEE Bahrain Section–Region 8 (2015-2018)
- **Students Activities Coordinator (SAC)** of IEEE Bahrain (2015-2018)
- **Counselor** of IEEE University of Bahrain Student Branch (2015-date)
- **Senior Member** IEEE (Elevated in October 2010) Membership #40315470 since 1998).
- **Treasurer**, Member of Region 8 board, IEEE Alexandria subsection (Sept. 2005- March 2007).
- **Member** of IEEE Antennas and Propagation Society, Communications Society, Broadcast Technology Society, IEEE Microwave Theory and Techniques Society, IEEE Industry Applications Society and IEEE Vehicular Technology Society
- **Member** of International Association of Engineers (IAENG), US, (2014-date)
- **Member** of Applied Computational Electromagnetics Society (ACES), (2014-date)
- **Board Member (Executive committee)** Society of Excellence & Academic Research in Bahrain (SEAR), (2014-date)

PROFESSIONAL ACTIVITIES/CONTRIBUTIONS

Conferences Contribution

- **Conference Chair: (3 Conferences)**
  - 2nd IEEE Middle East and North Africa Communications Conference (ComSoc Conference), IEEE MENACOMM 2019, 19-21 November, Bahrain. (Menacomm2019.org)
  - 17th World Renewable Energy Congress, Crowne Plaza Hotel, Bahrain (hosted and organized by UoB) 4-8 December 2016
  - Wireless Communications Forum, WCF 2008, UoB, Bahrain, 6th May 2008.

- **TPC Chair:**

  - International Conference of Frontiers of Engineering and Emerging Technologies (FET'26), 22-23 April 2026 Kingdom of Bahrain

- **Steering / Organizing / TPC Committee Member / Session Chair (35+ Conferences):**

  - **IEEE** CTU 2024 Summit Committee member, {2024 Connecting the Unconnected Summit (https://ctu.ieee.org/)}
  - Abu Dhabi 6G Summit (2022), Organizing committee/ Exhibition chair.
  - Bahrain IoT & AI Challenge (2022), Chairman, (Leads to annual regional competition at GITEX, Dubai)
  - ARAB ICT Conference, Kingdome of Bahrain (27-28 Feb. 2024)
  - 1st IEEE MENACOMM Conference, (2018) Lebanon (Co-founder)
  - 3rd IEEE MENACOMM (2021) Morocco
  - 4th IEEE MENACOMM (2023) Jordon
  - 5th IEEE MENACOMM (2025) Lebanon
  - 6th IEEE MENACOMM (2026) Tunisia
  - 6th IEEE GCC (2011), Dubai, UAE
  - 9th IEEE-GCC (2017), Manama, Bahrain
  - BSE Industry 4.0 (2018)), Manama, Bahrain
  - IET Smart Cities Symposium (1st , 2nd , 3rd and 4th), Manama, Bahrain (4)
  - IEEE 3ICT ('18, 19, 20, 21), Sakheir, Bahrain (4)
  - ICCTA ('02 –'17) Alexandria, Egypt (15)
  - iCETiC ('18, 19 , 20) , UK (3)
  - ISNCC' 21, Dubai, UAE (1)
  - The 6th IMMCC, EERT 2010, Lisbon, Portugal. 6-8 September 2010. (1)
  - 2nd EERT 2011, Glyndwr University, Wrexham, North Wales, UK, 6- 9 September 2011 (1)
  - The Annual National URSI, NRSC, Egypt (from 2001 – 2006) (5)
  - 16th International Symposium on Personal Indoor and Mobile Radio Communications, Sept. 2005. (1)
  - IEEE Midw**est Symposium on Circuits and Systems "MWSCAS", Cairo, Egypt, December 2003**

Journals Activities

- **Editorial Board :**
  - Advisory Board Member: Annals of Emerging Technologies in Computing (AETiC). {Scopus indexed}
  - Associate Editor, Engineering Science and Technology, an International Journal JESTECH (an international peer-reviewed journal in engineering field, published under Elsevier)
  - Associate Editor, International Journal of computing and digital systems (IJCDS), (Scopus and SCI Expanded)
- **Peer reviewer:** Frequent in the following journals: (100+ papers):

- IEEE Transactions on Antennas and Propagation journal.
- IEEE Transactions on Vehicular Technology journal,
- IEEE Trans. on Microwave Theory and Techniques journal,
- Journal of Electromagnetic Waves and Applications Progress in Electromagnetic Research ,
- IET Microwaves, Antennas and Propagation journal
- International Journal of Wireless Personal Communications, Springer,
- Applied Computational Electromagnetics Society Journal (ACES)
- Journal and International Journal of Computing and Network Technology (IJCNT).

SUPERVISION OF THESES AND DISSERTATIONS

1. **M. Sc.** "Linear and Planner Antenna Arrays design using Genetic Algorithm, M. Sabry, **(AASTMT, 2002)**
2. **M. Sc.** "Design of Multiband Fractal antennas, A. Zaki, **(AASTMT, 2003)**
3. **M. Sc.** "Smart antennas for 3rd generation CDMA mobile communication systems, A. Moussa, **(AASTMT, 2004)**
4. **M. Sc.** "Gateway Discovery in Ad hoc On-Demand Distance Vector Routing", H. Meshrefi, **(AASTMT, 2007)**
5. **M. Sc.** "Beamforming techniques for OFDM wireless communication systems", M. Shokry, (**AASTMT, 2007)**
6. **M.SC** " Optmization of Antenna Array design" Ahmed Gumaa **(AAST, 2007)**
7. **M. Sc.** "Contourlet-Based Image Fusion", A. Alajeely, **(AASTMT, 2007)**

8. **M.Sc.** "Novel Evolutionary Optimizations of Phased Antenna Arrays" Mohamed Sharaa, **(UoB ,2011)**
9. **M. Sc.** "MIMO-OFDM for wireless communication systems" Zahra mahdi, **(UoB, 2011)**
10. **M.Sc.** "Cooperative cognitive wireless communication systems" Hamad Eldosary**, (UoB, 2015).**
11. **M.Sc.** "Performance Analysis of MIMO Relaying Communication systems" Raed Mesmer**, (UoB, 2015).**
12. **M.Sc.** "Beamforming techniques for millimeter wave Communication systems" Isa Hassan, **(UoB, 2017)**
13. **Ph.D**. "Probabilistic Flooding of VANET and Nano-Networks", Taqua Khairy , **(FU, Cyprus, 2015-2019).**
14. **Ph.D.** "An Adaptive Broadcasting Scheme in VANETs", UOB, Bahrain, Omar Fayyad **(UOB, 2019-June 2023)**
15. **M.Sc.** "Application of Artificial intelligence for Remote sensing" Ebrahim Alburshid**, (UoB, 2021)**
16. **M.Sc.** "A Frame for Enabling AI Technologies in the Parliament of the Kingdom of Bahrain:" Farouk Abdulaziz **(UoB, 2022).**
17. **M.Sc.** "DRL for Intelligent Wireless Networks" Najeeba Mohamed Jaafar **(UoB, 2023)**
18. **M.Sc. "**DRL for Vehicle to Everything (V2X) Technology" Ahmed Abd-Alwahab Alsahlawi **(UoB, 2023)**
19. **M.Sc., "**Smart Traffic and Parking Management System Using Artificial Intelligence", Fatema Hasan Jaafar, **(UoB, 2024)**
20. **M.Sc., "**Hybrid Sentiment Analysis Model for Sales Forecasting and Trend Identification Using Multi-Modal DL", Asam Shayea(2025)
21. **M.Sc.**, "Leveraging AI and IoT for intelligent Traffic Management Solutions", Ahmed Najmuddin (UoB, 2025)
22. Ph.D. " AI-enabled routing protocols for unmanned air vehicles (UAV) network", Wejdan Albana, (UoB)
23. M.Sc., "Multimodal Deep Learning for the Early Diagnosis of Brain Disorders" Farah Shaheen (UoB)

INVITED TALKS AND SEMINARS

- **October 2024,** "Unleashing the Power of IoT and AI in MEA Region" Invited speaker, GIA Forum, GITEX 2024, Dubai
- **October 2023**, "Educational institutions Role in Developing the Talent-Based Economy in the Region" Invited Speaker, GIA Forum, GITEX'23, Dubai.
- **July 2023,** "IEEE membership and volunteering" Invited speaker at EUROCON, IEEE R8 flagship conference, Turin, Italy 2023
- **June 2023,** "LLM and Other Similar AI Technologies for Higher Education", American University of Bahrain (AUBH), Riffa Campus.
- **May 2022,** "Global Sister Chapter Program for IEEE ComSoc", Rome, Italy 2023
- **October 2022,** "From Lab to Market: Accelerating Technology Transfer and Commerciaization in the MENA Region", " Invited speaker, GIA Forum, GITEX'22, Dubai
- **Sept 2022,** "Overview and research trends of V2X technology" @ Bahrain Society of Engineers
- **March 2022,** "the Future ICT Skills" @ Bahrain chamber, (representing University of Bahrain)
- **May 2021,** Distinguished lecture guest speaker, ComSoc "India", " Health effects of newly installed 5G system"
- **March 2019**, Keynote speaker @ MEETICT 2019, "overview of Millimeter communications for 5G" {http://www.meetict.com}
- **April 2017,** "Millimeter communications for 5G". Bahrain ComSoc and IET Bahrain Local network, Bahrain Society of Engineers, Juffair.
- **May 2016**, "Video Coding for modern mobile communications". IET Bahrain Local network, Shakhier, Bahrain.
- **Aug 2015,** "Towards fifth Generation Mobile communication systems". Alexandria University, Alexandria, Egypt.
- **January 2015,** "The fifth Generation and the future of Mobile communication systems". Abdelrahman Kanoo Cultural center on Tuesday.
- **October 2012**, "Evolution and applications of wireless MIMO Technology", College of Engineering, Kuwait University.
- **April. 2012,** "Recent Advances and Future Trends of Wireless Communications" College of Science, UOB, Kingdom of Bahrain
- **Nov. 2010,** "Opportunities and Challenges of Wireless Communication Technologies for Smart Grid Applications", UOB.
- **May 2009,** "Mobile phone Base station safety aspects" TRA Bahrain, Crown plaza Hotel
- **Jan 2008,** "Interactions between mobile phone antennas and human body" IET Bahrain, Bahrain Society of Engineering
- **Nov. 2007,** "Modern wireless communications: overview" EE Department, University of Bahrain.
- **April 2007,** "Mastering educational engineering software", one-week workshop @ UOB.
- **Nov. 2007,** "Mobile communications: overview and Design aspects" IEEE Bahrain section at University of Bahrain.
- **Jan 2006,** "Health effects of Mobile Phone and Base Stations", IEEE Alexandria Subsection, tomorrow's wireless world workshop.
- **July 2005,** "Future Trends in Wireless Communications" IEEE Alexandria Sub-section, AASTMT Seminar.
- **Oct 2004,** "Smart antenna for CDMA systems", workshop for communications Engineers AASTMT.
- **March 2004, "**Computational Electromagnetics for Novel Antenna Designs" IEEE Alexandria Sub-section, Alexandria University.

PUBLICATIONS

REFEREED INTERNATIONAL JOURNALS

1. F. H. Yusuf,, and **M. A Mangoud**. "Real-Time Car Parking Detection with Deep Learning in Different Lighting Scenarios." International Journal of Computing and Digital Systems 15, no. 1, Dec. 2024, pp 1-9.
2. I. H. Altoobaji and **M. A. Mangoud** "An Enhanced Multilevel ML-DFT Codebook Algorithm for Hybrid Beamforming of Millimeter Wave MIMO Systems", International Journal of Wireless and Mobile Computing, Vol. 19, No. 2, pp. 154-162, 2020
3. H. F. Al-Doseri and **M. A. Mangoud**, "Performance Analysis of Cooperative Spectrum Sensing under Guaranteed Throughput Constraints for Cognitive Radio Networks," Journal of Computer Networks and Communications, vol. 2016, Article ID 9706781, 9 pages, 2016.http://dx.doi.org/10.1155/2016/9706781
4. R. Mesmer and **M. A. Mangoud** "Capacity Analysis for Cooperative Amplify and Forward Relay MIMO in Correlated Channels" International Journal of Computing and Digital Systems (IJCDS), Volume 5, issue 1, Jan. 2016 (ISSN 2210-142X)
5. **M. A. Mangoud**, R. Mesmer, "Capacity Analysis and Relay Coverage Investigations of Wireless Cooperative MIMO Systems" International Journal of Computing and Digital Systems (IJCDS), 2104, Volume 3, issue 2 (ISSN 2210-142X)
6. **M. A. Mangoud,** H. M. Elragal, and M. T. Alsharaa "Design of Time Modulated Concentric Circular and Concentric Hexagonal Antenna Array Using Hybrid EPSO/DE Algorithm" IET Microwaves, Antennas & Propagation journal, pp. 1-9, March 2014 (DOI: 10.1049/iet-map.2013.0132)
7. **M. A. Mangoud,** "Effects of Applying Realistic Channel Conditions on Performance Prediction of UCA-VBLAST-MIMO systems" Journal of King Saud University - Engineering Sciences - Elsevier, 14 December 2012, Volume 25, Issue 1, pp. 1-88 (January 2013)
8. **M. A. Mangoud,** "Effect of Fading Correlation on the Performance of Spatial Multiplexed MIMO Systems with Circular Antennas" Journal of Emerging Trends in Computing and Information Sciences Vol. 3, No. 11 , November 2012, pp. 1453-1458
9. **M. A. Mangoud** and Z. Mahdi "Realistic Spatio-Temporal Channel Model for Broadband MIMO WLAN Systems Employing Uniform Circular Antenna Arrays" Applied Computational Electromagnetics Society Journal (ACES), ISSN: 1054-4887, May 2011, Vol. 26, No. 5.
10. H. M. Elragal, **M. A. Mangoud,** and M. T. Alsharaa "Hybrid Differential Evolution and Enhanced Particle Swarm Optimization Technique for the Design of Position Controlled Reconfigurable Phased Arrays" IET Microwaves, Antennas & Propagation journal (IET Microw. Antennas Propag.), 19 August 2011, Volume 5, Issue 11, p.1280–1287.
11. **M. A. Mangoud** "Capacity Investigations of MIMO Systems in Correlated Rician Fading Channel Using Statistical Multi-Clustered Modeling", Applied Computational Electromagnetics Society Journal (ACES), ISSN: 1054-4887, Vol. 25, No. 2, Feb. 2010.
12. **M. A. Mangoud** and H. M. Elragal "Antenna Array Pattern Synthesis and Wide Null Control Using Enhanced Particle Swarm Optimization" Progress In Electromagnetics Research B Journal, ISSN: 1937-6472, Vol. 17, 1-14, 2009.
13. **M. A. Mangoud** "Optimization of Channel Capacity for Indoor MIMO Systems Using Genetic Algorithm" Progress In Electromagnetics Research C Journal, ISSN: 1937-8718, Vol. 7, 137-150, 2009.
14. R. A. Abd-Alhameed**, M. A. Mangoud**, P. S. Excell, K. Khalil "Investigations of polarization purity and specific absorption rate for two dual-band antennas for satellite-mobile handsets" IEEE Transactions on Antennas and Propagation, Vol. 53, No. 6, pp 2108 - 2110 , June 2005.
15. R. A. Abd-Alhameed, P. S. Excell, **M. A. Mangoud** "Computation of Specific Absorption Rate in the Human Body due to Base-Station Antennas Using a Hybrid Formulation**"** IEEE transaction on Electromagnetic Compatibility, Vol. 47, No.2 , pp 374-381, May 2005.
16. R. A. Abd-Alhameed, P. S. Excell, **M. A. Mangoud** "Broadband Antenna Response using Hybrid Technique Combining Frequency Domain MoM And FDTD" Applied Computational Electromagnetics Society Journal, Vol. 20, No. 1, March 2005.
17. **M. A. Mangoud,** "Genetic Algorithm/ MoM for mobile satellite antenna designs" Applied Computational Electromagnetics Society Journal (ACES), USA, Vol 19, No 3, November 2004.
18. R. A. Abd-Alhameed,; P. S. Excell,; **M. A. Mangoud,;** "A hybrid computational electromagnetics formulation for Simulation of antennas coupled to lossy and dielectric volumes" IEEE Transactions on Broadcasting, Vol. 50 , No. 3 , pp. 253–259, Sept. 2004.
19. **M. A. Mangoud,** R. A. Abd-Alhameed, P.S. Excell.: 'Simulation of human interaction with mobile telephones using hybrid techniques over coupled domains', IEEE Trans. on Microwave Theory and Techniques, Vol. 48, No. 11, pp. 2014-2021, Nov. 2000.

20. **M. A. Mangoud,** R. A. Abd-Alhameed, P.S. Excell, **'**Investigations of polarisation purity and SAR for personal satellite communications antennas using a hybrid computational method**',** *Electronics Letters*, Vol. 37, No. 21, pp 1272-1274, Oct. 2001.
21. M. A. Mangoud, R. A. Abd-Alhameed, P.S. Excell: 'A hybrid computational electromagnetics formulation for simulation of antennas coupled to lossy and dielectric volumes', Applied Computational Electromagnetics Society Journal (ACES), Special Issue in Computational Bioelectromagnetics, vol. 16, No. 2, pp. 155-161, July 2001.
22. R. A. Abd-Alhameed, **M.A. Mangoud,** 'Investigation of reduced SAR personal communications handset using hybrid MoM/FDTD technique', International Journal of Electronics and Communication, AEÜ, No. 3, pp. 147-154, 2000.
23. **M. A. Mangoud,** Abd-Alhameed, R.A., Excell, P.S., & Vaul, J.A.: 'Conduction current crossing domain boundaries in a heterogeneous hybrid computational electromagnetics formulation', *Electronics Letters,* Vol. 35, No. 21, pp. 1786-1788, Oct. 1999.
24. **M. A. Mangoud,** Abd R. A. Abd-Alhameed, N. J. McEwan, P.S. Excell and S. Abdulmula 'SAR reduction for handset with two elements phased array antenna using hybrid MoM/FDTD technique', *Electronics Letters,* Vol. 35, No. 20, pp. 1693-1694, Sep. 1999.
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