Dr. MUNTASIR SHEIKH

Electrical & Computer Engineering Dept., King Abdulaziz University, Jeddah, 21589, Saudi Arabia

EDUCATION

- University of Arizona, Tucson, Arizona, USA**: Ph.D.** in Electromagnetics Engineering and Applications 1999
- University of Bradford, Bradford, UK: **M.Sc.** in Radio Frequency Communications Engineering 1991
- ECE Dept., College of Engineering, KAU, Saudi Arabia: B.Sc. in Electronics and Communications Engineering 1987

PROFESSIONAL EXPERIENCE

i. Electrical & Computer Engineering Dept., Aeronautical Engineering Dept., KAU : **Assistant Professor 1999-Now**
ii. 5-day short course: Analysis and Mitigation of Interference Signals in Communications. This course ran 12 times and included a chapter on Electronic Warfare.
iii. 5-day short course: GSM and Mobile Communications. This course ran 3 times.
iv. 5-day short course: Spectrum Management. This course ran only once.
v. Teaching Assistant 1987-1990

CONSULTATIONS

- **Ministry of Economics and Planning**
- Part-time consultant in Energy and Space February 2016 – March 2018
- Various consultations and studies in the fields of: Reducing carbon emissions of oil-based fuels, renewable energy, and new space technologies, King Abdulaziz City of Science and Technology (KACST)
- Part-time consultant as an Antenna Engineer 2009 – 2014
- Collaborated with a team of researchers from KACST and CSIR-South Africa in to develop a countrywide border surveillance system using airborne radars.
- **Ministry of Hajj**
- Part-time consultant to Vehicle Tracking Pilot Project 2003 – 2007
- Supervised the planning and execution of a vehicle tracking project installed on a sample of buses used during Hajj season.

RELATED EXPERIENCE

- College of Engineering, KAU
- General Supervisor of The Defense Sensors and Electronics Research Unit 2016 – Now
- Research, studies, and courses related to this field as requested by government defense entities as
- well as supervising higher studies students working in this field.
- Vice Presidency of Graduate Studies and Scientific Research, KAU
- KAU Coordinator with KACST in regards to the Cooperation Agreement in Radars and EW
- Technologies and Simulators 2015 – Now
- To facilitate the establishment of research programs and labs in KAU according to the terms of the
- Agreement.
- Coordinator of the Scientific Activities in Gifted Students Mawhiba Summer Camp 2003-2010
- Designed and supervised the robotics program.

AWARDS

- KACST Certificate of Recognition for the Role of Nationalizing Radar and EW Technologies 2016
- KACST Certificate of Recognition for the Role of Nationalizing Radar and EW Technologies 2014

MEMBERSHIPS

- Association of Old Crows (AOC) 2011-2013
- Institute of Electrical and Electronics Engineers (IEEE) 2003-2006

PUBLICATIONS

1. M. M. Sheikh and D. G. Dudley, "Scattering from a Thin Wire Excited by a Perpendicular Line Current", Journal of Electromagnetic Waves and Applications, Vol. 13, 1035-1036, 1999.
2. S. Dakhli, H. Rmili, J. M. Floch, M. Sheikh, K. Mahdjoubi, F. Choubani, and R. W. Ziolkowski, "Capacitively Loaded Loop-Based Antennas with Reconfigurable Radiation Patterns", International Journal of Antennas and Propagation, Volume 2015 (2015), Article ID 523198.
3. Ahsan, M. R., Islam, M. T., Habib Ullah, M., Aldhaheri, R. W., and Sheikh, M. M. (2015), "A new design approach for dual-band patch antenna serving Ku/K band satellite communications", Int. J. Satell. Commun. Network., doi: 10.1002/sat.1130.
4. Ahsan, M. R., Islam, M. T., Habib Ullah, M., Aldhaheri, R. W., and Sheikh, M. M., "Design of high gain slotted patch antenna with defected ground for WLAN/WiMAX applications", International Journal of Applied Electromagnetics and Mechanics, pp. 1-12, July 2015.
5. Rouissi, I. Ben Trad, J. M. Floch, M. Sheikh, and H. Rmili, "Design of Miniature Multiband Fractal CPW-fed Antenna for Telecommunication Applications", PIERS Proceedings, pp. 544 - 547, August 12-15, Stockholm, 2013.
6. S. Dakhli, H. Rmili,J. M. Floc'h, M. Sheikh, A. Dobaie, K. Mahdjoubi, F. Choubani, and R. W. Ziolkowski, "PRINTED MULTIBAND METAMATERIALINSPIRED ANTENNAS", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, Vol. 58, No. 6, June 2016.
7. X. Hong, S. Chenb, A. Qatawnehc, K. Daqrouqc, M. Sheikh, and A. Morfeq, "A radial basis function network classifier to maximize leave-one-outmutual information", Journal of Applied Soft Computing, Vol. 23 (2014), pp. 9–18.
8. H. Rmili, D. Oueslati, L. Ladhar, and M. Sheikh, "DESIGN OF A CHIPLESS RFID TAGS BASED ON NATURAL FRACTAL GEOMETRIES FOR SECURITY APPLICATIONS", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, Vol. 58, No. 1, January 2016
9. X. Hong, S. Chenb, A. Qatawnehc, K. Daqrouqc, M. Sheikh, and A. Morfeq, "Sparse probability density function estimation using the minimum integrated square error", Journal of Neurocomputing, Vol 115 (2013), pp.122–129.
10. Yahyaoui, H. Rmili, M. Sheikh, A. Dobaie, L. Laadhar, and T. Aguili, "Half-wave and Quarter-wave Plates Metasurfaces with Elliptic Dielectric Resonators for Microwave Applications", Proceedings of 16th Mediterranean Microwave Symposium (MMS), 2016.
11. Yahyaoui, H. Rmili, K. Achouri, M. Sheikh, A. Dobaie, A. Affandi, and T. Aguili, "Transmission Control of Electromagnetic Waves by Using Quarter-Wave Plate and Half-Wave Plate All-Dielectric Metasurfaces Based on Elliptic Dielectric Resonators," International Journal of Antennas and Propagation, 2017.
12. R. Azim, R. W. Aldhaheri, M. M. Sheikh, and M. T. Islam3, "AN EFFECTIVE TECHNIQUE BASED ON OFF-SET FED PATCH TO ENHANCE THE BANDWIDTH OF MICROSTRIP PLANAR ANTENNA," MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, Vol. 58, No. 5, May 2016 pp 1221-1226.
13. R. W. Aldhaheri, K. J. Babu, A. Syed, and M. Sheikh, "A NOVEL UWB RECTANGULAR SLOT DISK MONOPOLE ANTENNA WITH BAND-NOTCH CHARACTERISTICS," MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, Vol. 57, No. 10, October 2015, pp. 2405-2410
14. S. DAKHLI, H. RMILI, J. M. FLOC'H, F. CHOUBANI and M. SHEIKH, "Design of Superdirective and Compact Antenna Array," Proceedings of 5th International Conference on Multimedia Computing and Systems (ICMCS), 2016.
15. M. Alsulami, H. Rmili, S. Mehri, B. Hakim, M. Sheikh, and R. Mittra, "Design of a Frequency Reconfigurable Notched-Band UltraWideband Antenna for Cognitive Radio Applications," ACES JOURNAL, Vol. 34, No. 9, September 2019.

PRESENTATIONS

1. "Venues of Collaboration between The Defense Sensors and Electronics Research Unit and the Western Fleet Command of the Royal Saudi Navy ", presented in the RSN WF HQ, Jeddah, February 19, 2017.
2. "Electronic Protection Capabilities of AESA Radars", presented at The 3rd EW Symposium, Riyadh, Nov. 2015.