

## **Dr Yousef Ali Dama**

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### **CURRENT POSITION**

**Head of Electrical and Telecommunication Department, An-Najah National University, Palestine, July 2017 – Present.**

**Assistant Professor, Telecommunication Engineering Department, An-Najah National University, Palestine, September 2012 – Present.**

### **EDUCATION**

- **PhD. Wireless Communications, University of Bradford, United Kingdom, December 2008 –2013.**  
THE OPTIMIZATION OF MULTIPLE ANTENNA BROADBAND WIRELESS COMMUNICATIONS. A study of propagation, space-time coding and spatial envelope correlation in Multiple Input, Multiple Output radio systems.
- **MSc. Personal Mobile and Satellite Communications, University of Bradford, United Kingdom, 2005 –2006.**
- **BSc. Electrical Engineering, An-Najah National University, Palestine, 2000 – 2005.**

### **WORK EXPERIENCE**

**Assistant Professor, Telecommunication Engineering Department, An-Najah National University, Palestine, September 2012 – Present.**

**Teaching associate in Engineering Computation, School of Engineering, University of Bradford, United Kingdom, September 2010 – June 2012.**

**Contribution to a professional master's level training course as an invited Lecturer on wireless techniques and indoor propagation, Mobile and Satellite Communications Research Centre (MSCRC), University of Bradford, United Kingdom, 2010 – June 2012.**

**Provided aspects of supervision on Five MSc projects in wireless communications, School of Engineering, Design and Technology, University of Bradford, United Kingdom, January 2010 – June 2012.**

### **INTERNATIONAL SCIENTIFIC ACTIVITIES**

- Spatial correlation for N-elements lossy radiating elements (patent applied for).

### **COMPUTER SKILLS**

- MS Office (including Word, Excel and Power Point)
- Expert user of MATLAB and SIMULINK.

- Expert user of Wireless EM Propagation Software (Wireless InSite).
- Familiarity with a wide range of RF and antenna simulation tools including NEC, HFSS and ADS.

## **TRAINING**

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- Three months training course in Motorola, Jordan, June 2004 – September 2004.
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## **COURSES TAUGHT:**

### **BACHELOR COURSES:**

- Cellular Communication Systems
- Fiber Optic Communications
- Antennas
- Satellite Communications
- Electrical Circuits 1
- Electrical Circuits 2
- Modelling & Simulation of Telecom. Eng. Systems
- Electrical and Electronic Circuits
- Advance Communication Lab.
- Electrical Circuits Lab
- Electrical and Electronic Circuits Lab

## **PUBLICATIONS**

### **REFEREED JOURNALS:**

1. **Y.A.S. Dama**, R. A. Abd-Alhameed, S.M.R. Jones, D. Zhou, N.J. McEwan, M.B. Child and P.S. Excell, "An Envelope Correlation Formula For (N,N) MIMO Antenna Arrays Using Input Scattering Parameters, And Including Power Losses", International Journal of Antennas and Propagation, **2011**, Article ID 421691, doi:10.1155/2011/421691
2. **Y. A. S Dama**, R. A. Abd-Alhameed, S. M. R Jones J.M. Noras, N.T.Ali , "An Exact Envelope Correlation Formula for Two-Antenna Systems Using Input Scattering Parameters and Including Power Losses", International Journal on Communications Antenna and Propagation - February 2012, Vol. 2, No. 1, pp. 39-44
3. **Y.A.S Dama**, R AAbd-Alhameed, T S Ghazaany and S Zhu, "A New Approach for OSTBC and QOSTBC", International Journal of Computer Applications, **2013**, Vol.67, No.6, pp.45-48.

4. R. Asif, R. A. Abd-Alhameed, O.O Anoh and **Y.A.S Dama**, "Performance Evaluation of DWT-OFDM and FFT-OFDM for Multicarrier Communications Systems using Time Domain Zero Forcing Equalization", International Journals of Computer Applications, **2012**, Vol.4, No.4, pp.34-38.
5. Allam Mousa, **Yousef Dama**, Mahmud Najjar and Bashar Alsayeh, "Optimizing Outdoor Propagation Model based on Measurements for Multiple RF Cell", International Journals of Computer Applications, **2012**, Vol.60, No.5, pp.5-10.
6. Kelvin Anoh, Raed Abd-Alhameed, **Yousef Dama** and Steve Jones, "An Investigation of PMEPR of WPT-OFDM and OFDM Multicarrier Systems", Journal of Communications and Networking NWPJ-201307-07, July, **2013**.
7. Kelvin Anoh, Raed Abd-Alhameed, **Yousef Dama** and Steve Jones, "Improved QO-STBC OFDM System Using Null Interference Elimination", International Journal of Advanced Computer Science and Applications (IJACSA), Volume 4, No 8, August **2013**.
8. K. O. O. Anoh, **Y. A. S. Dama**, R. A. A. Abd-Alhameed and S. M. R. Jones, "A Simplified Improvement on the Design of QO-STBC Based on Hadamard Matrices" International Journal of Communications, Network and System Sciences, 7(1):37-42. DOI:10.4236/ijcns.2014.71005, **2014**
9. Ahmed Masri, Saed Tarapiah, **Yousef Dama**, "Secondary User Power Saving in Overlay Cognitive Radio Networks", International Journal of Computer Applications; 86(7):1-5. DOI:10.5120/14994-2788, **2014**
10. K. O. O. Anoh, M. C. Chukwu, **Y. A. S. Dama**, R. A. Abd-Alhameed, O. Ochonogor and S. M. R Jones, "A Multi-Antenna Design Scheme based on Hadamard Matrices for Wireless Communications", British Journal of Mathematics & Computer Science 5(1): XX-XX, 2015, Article no.BJMCS.2015.005, ISSN: 2231-0851.
11. Trust T. Mapoka, **Y.A.S. Dama**, Haider M. AlSabbagh, Simon J. Shepherd, Raed A. Abd-Alhameed, "Multi-Service Group Key Establishment for Secure Wireless Mobile Multicast Networks", Journal of telecommunications, volume 27, issue 2, October 2014.
12. H.A. Obeidat, **Y.A.S. Dama**, R.A. Abd-Alhameed, J.M. Noras, S.M.R. Jones, A Comparison between Vector Algorithm and CRSS Algorithms for Indoor Localization using Received Signal Strength, ACES Journal, 2015-2016
13. Al-Sadoon MA, Ali NT, **Dama Y**, Zuid A, Jones SM, Abd-Alhameed RA, et al. A New Low Complexity Angle of Arrival Algorithm for 1D and 2D Direction Estimation in MIMO Smart Antenna Systems. Sensors. 2017;17(11):2631.
14. H.A. Obeidat, R. Asif, N.T. Ali, **Y.A. Dama**, O.A. Obeidat, S.M.R. Jones, W.S. Shuaieb, M.A. Al-Sadoon, K.W. Hameed, A.A. Alabdullah, and R.A. Abd-AlhameedR. A., An Indoor Path Loss Prediction Model using Wall Correction Factors for WLAN and 5G Indoor Networks, Radio Science, Wiley-Blackwell, 2018

## REFEREED INTERNATIONAL CONFERENCES:

1. **Y. A. S. Dama**, R. Abd-Alhameed, F.Salazar-Quiñonez, D. Zhou, SMR. Jones, and S. Gao, "MIMO indoor propagation prediction using 3D shoot-and-bounce ray (SBR) tracing technique for 2.4 GHz and 5 GHz," in Antennas and Propagation (EUCAP), Proceedings of the 5th European Conference on, **2011**, pp. 1655-1658, Italy.
2. **Y. A. S. Dama**, R. A. Abd-Alhameed, D. Zhou, S. M. R. Jones, M. B. Child, and P. S. Excell, "Calculation of the spatial envelope correlation between two antennas in terms of the system scattering parameters including conducting losses," in Antennas and Propagation Conference (LAPC), Loughborough, **2010**, pp. 513-516, UK.
3. **Y.A.S Dama**, R. A. Abd-Alhameed, F.Salazar-Quiñonez, SMR Jones, K. N. Ramli and M.S.A. Al Khambashi "Experimental Throughput Analysis and MIMO Indoor Propagation Prediction for 802.11n System", EMC, York, September, UK,**2011**.
4. **Y.A.S Dama**, R. A. Abd-Alhameed, F.Salazar-Quiñonez, SMR Jones and J.G. Gardiner, "Indoor Channel Measurement and Prediction for 802.11n System", WIVREC2011, San Francisco, September, USA, **2011**
5. **Y.A.S. Dama**, R. A. Abd-Alhameed, S.M.R. Jones, H.S.O. Migdadi and P.S. Excell, "A New Approach to Quasi-Orthogonal Space-Time Block Coding Applied to Quadruple MIMO Transmit Antennas ", ITA, Wales, September, UK, **2011**.
6. **Y.A.S Dama**, R. A. Abd-Alhameed, SMR Jones, D Zhou and M.b.Child, "Experimental Throughput Analysis for 802.11n System and MIMO Indoor Propagation Prediction", The XXX General Assembly and Scientific Symposium of the International Union of Radio Science (URSI), Istanbul, Turkey,**2011**
7. **Y.A.S. Dama**,R. A. Abd-Alhameed, S.M.R. Jones, N.J. McEwan, T. Sadeghpour, and M.B. Child"Envelope Correlation Formula For (N,N) MIMO Antenna Array Including Power Losses", The IEEE International Conference on Electronics, Circuits, and Systems (ICECS), Lebanon, **2011**
8. **Y.A.S Dama**, R.A. Abd-Alhameed, F.Salazar-Quiñonez, D. Zhou, SMR Jones, P.S. Excell, "Experimental Throughput Analysis for MIMO 802.11n Systems over LOS and NLOS Indoor Scenarios", Mosharaka International Conference on Communications, Propagation, and Electronics (MIC-CPE2011), Jordan, **2011**.
9. **Y.A.S Dama**, R.A. Abd-Alhameed, OgbonnayaAnoh, SMR Jones, "MIMO INDOOR PROPAGATION PREDICTION USING 3D SHOOT-AND-BOUNCE RAY TRACING",Mosharaka International Conference on Communications, Propagation, and Electronics (MIC-CPE2012), Turkey, **2012**.
10. **Y.A.S Dama**,R. A. Abd-Alhameed, F Salazar-Quiñonez, O.O. Anoh and SMR Jones, "SIMULATION OF DIFFERENT CHANNEL PROPAGATION SCENARIOS", URSI Festival of Radio Science, University of Durham, April **2012**, UK

11. **Y.A.S. Dama**, R. A. Abd-alhameed, Ogbonnaya.O.Anoh, S.M.R.Jones and M.B.Child, "RSSI and throughput evaluation of an lte system using a distributed mimo antenna with a site specific channel propagation model", fifth international conference on internet technologies & applications, North Wales, UK, September **2013**.
12. **Y A S Dama**, H Hammad, R Zaid, R Zaid, R A Abd-Alhameed, P S Excell, A comparison between vector algorithm and CRSS algorithm for indoor localization, The conference proceedings for the IET conference on Ninth CEM International Conference on Computation in Electromagnetics, Imperial College, London, UK, 31 March - 01 April 2014, session 3, P3-04; ISBN 978-1-84919-816-5, ISSN 0537-9989 Reference PEP0627U.
13. **Yousef AS Dama**, Hassan Migdadi, Wafa Shuaieb, Elmahdi Elkazmi, Eshtiwi A Abdulmula, Raed A Abd-Alhameed, Walaa Hammoudeh, Ahmed Masri, "A New Approach for Implementing QO-STBC Over OFDM", Wireless and Satellite Systems, Springer International Publishing, pp: 249-259, 2015
14. KOO Anoh, RAA Abd-Alhameed, O Ochonogor, **YAS Dama**, SMR Jones and TT Mapoka , "Performance Evaluation of Raised-Cosine Wavelet for Multicarrier Applications", Proc. of the Intl. Conf. on Advances In Computing, Communication and Information Technology – CCIT **2014**, ISBN: 978-1-63248-010-1 doi: 10.15224/ 978-1-63248-010-1-13
15. K. O. O. Anoh, **Y.A.S. Dama**, H.M. AlSabbagh, R. A. A. Abd-Alhameed, T. T. Mapoka, Mohammad Ngala and S. M. R. Jones, "An Evaluation of Spatial Modulation for MIMO Systems with QO-STBC".The 8th International Wireless Internet Conference - Symposium on Wireless and Vehicular Communication, November 13–14, 2014 Lisbon, Portugal.
16. Trust T Mapoka, Haider M. AlSabbagh, **Y.A.S. Dama**, Simon J Shepherd, Raed Abd-Alhameed and Kelvin O Anoh , "A Multi-Service Cluster-based Decentralized Group Key Management Scheme for High Mobility Users". The 8th International Wireless Internet Conference - Symposium on Wireless and Vehicular Communication, November 13–14, 2014 Lisbon, Portugal.
17. D. Zhou, S. Gao, R. A. Abd-Alhameed, **Y.A.S Dama**, F. Zhu, J. Xu, "BAND-NOTCHED CHARACTERISTICS OF PLANAR ULTRA WIDEBAND ANTENNAS IN FREESPACE AND IN PROXIMITY TO METALLIC OBJECTS", Mosharaka International Conference on Communications, Propagation, and Electronics (MIC-CPE2012), Turkey, **2012**.
18. D. Zhou, F. Zhu, S. Gao, R. A. Abd-Alhameed, J. Xu, **Y.A.S Dama**, "Study and Analysis of Compact Planar Ultra Wideband Antenna with Band-Notched Characteristics"MIC-BEN2011, 1st International Conference on Biomedical Engineering, Electronics and Nanotechnology, Jordan,**2011**.
19. C.H. See, R. A. Abd-Alhameed, **Y.A.S Dama**, P. Excell, "Proposed Circuit Model for Calibration of Nonlinear Responses in Biological Media Exposed to RF Energy",1st

International Conference on Biomedical Engineering, Electronics and Nanotechnology, Jordan, **2011**.

20. T. Sadeghpour, H. Karkhaneh, R. A. Abd-Alhameed, A. Ghorbani, I.T.E Elfergani, **Y.A.S Dama**, "Hammersteinpredistorter for high power RF amplifiers in OFDM transmitters" General Assembly and Scientific Symposium, **2011XXXth** URSI pp: 1 – 4
21. M. Usman, R.A. Abd-Alhameed, **Y.A.S Dama**, P.S Excell, D. Zhou, B. Ibrahim, E.A. Elkhazmi, "New compact dual polarised dipole antenna for MIMO communications " (WSA), **2010** International ITG Workshop on Smart Antennas, pp:326 – 330.
22. I.T.E Elfergani, R.A. Abd-Alhameed, C.H. See, T. Sadeghpour, **Y.A.S Dama**, S.M.R Jones, P.S. Excell, "A compact size reconfigurable PIFA antenna for use in mobile handset" General Assembly and Scientific Symposium, **2011XXXth** URSI, pp:1 – 4.
23. M.M. Abusitta, **Y.A.S. Dama**, R.A. Abd-Alhameed, C.H. See, J.M. Noras, A.D. Adebola, P.S. Excell, "Beam steering of horizontally polarized circular antenna arrays" Antennas and Propagation Conference (LAPC), **2011** Loughborough, pp:1 – 4.
24. TaherehSadeghpour, R. A. Abd-Alhameed, N. T. Ali, I. T. E. Elfergani, **Y.A.S. Dama**, O. O. Anoh, "Linear and nonlinear crosstalk in MIMO OFDM transceivers", ICECS **2011**, pp: 504-507
25. K.N. Ramli, R.A. Abd-Alhameed, **Y.A.S. Dama**, M.S.A. Alkhambashi, M.B. Child, P.S. Excell, "Interaction of EM fields to the human body using MoM-FDTD-SGFDTD hybrid computational method" EMC Europe, **2011**, York, pp571 – 574.
26. T. Sadeghpour, R. A. Abd-Alhameed, H. Karkhaneh , I.E.T Elfergani, A. Ghorbani, P.S. Excell, **Y.A.S Dama**, "Memory Effects in RF Transmitters", ITA, Wales, September, UK, **2011**.
27. O. O. Anoh, R.A. Abd-Alhameed, N.T. Ali, SMR. Jones and **Y.A.S. Dama**, " On the Performance of DWT and WPT Modulation for Multicarrier Systems", CAMAD **2012**, Barcelona, Spain.
28. Steve M. R. Jones, Khalid G. Samarah, **Y.A.S. Dama**, Raed A. Abd-Alhameed, Waleed Rasheed, E. Almahdi Elkhazmi, "Assessing Variability in the Wideband Mobile Radio Channel", 6th International ICST Conference on Mobile Multimedia Communications, (MobiMedia 2010), Lisbon, Portugal 6-8 September **2010**
29. Anoh, O. O.; Abd-Alhameed, R.; Elkhazmi, E. A.; Ali, N. T; Jones, S. M. R.; **Dama, Y. A. S.**, "Discrete-wavelet transform modulation over Multiple Input Multiple Output applications," High Capacity Optical Networks and Enabling Technologies (HONET), 2012 9th International Conference on , vol., no., pp.217,220, 12-14 Dec. **2012**
30. Asif, R.; Abd-Alhameed, R. A.; OAnoh, O.; **Dama, Y.**; Migdadi, H. S.; Noars, J. M.; Hussaini, A.S.; Rodriguez, J., "Performance comparison between DWT-OFDM and FFT-OFDM using time domain zero forcing equalization," Telecommunications and Multimedia (TEMU), 2012 International Conference on , vol., no., pp.175,179, July 30 2012-Aug. **2012**

31. Mapoka T.M, Shepherd S.J., **Dama Y.A.**, AlSabbagh H.M. and Abd-Alhameed R.A. (2015): "Multi-Service Group Key Management for High Speed Wireless Mobile Multicast Networks" *EAI Endorsed Transactions on Mobile Communications and Applications*, ICST, **2** (6): 1-9. For more information see: <https://bradscholars.brad.ac.uk/browse>
32. Masri A, **Dama YA**, Eya N, Abd-Alhameed RA, Noras JM. Secondary user undercover cooperative dynamic access protocol for overlay cognitive radio networks. 2017.
33. Hameed K, Al-Sadoon M, Jones S, Noras J, **Dama Y**, Masri A, et al., editors. Low complexity single snapshot DoA method. *Internet Technologies and Applications (ITA)*, 2017; 2017: IEEE.
34. Eya N, Elkhazmi E, Jituboh E, Masri A, **Dama Y**, Ahmed NA, et al., editors. New user authentication and key management scheme for secure data transmission in wireless mobile multicast. *Internet Technologies and Applications (ITA)*, 2017; 2017: IEEE.
35. Obeidat, H, Obeidat, O, Shuaieb, W, Alabdullah, A, **Dama, Y**, Binmelha, MS, Jones, S and Abd-Alhameed, R Performance Comparative Study Between Vector And ECOLOCATION Algorithms For Indoor Positioning, *Internet Technologies and Applications (ITA)*, 2017

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## **REFERENCES**

Available upon request

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