

Jamal Ramadan Elbergali

Professor of Telecommunications — College of Industrial Technology, Misurata

A. Personal Details



Date of Birth: 20th March 1966

Marital Status: Married

Nationality: Libyan

Languages: Arabic, English

Contact: College of Industrial Technology-Misurata

Address: Misurata-Libya

B. Academic Qualifications

Ph.D.: Broadband Communication Networks, Department of Electrical Engineering University of Cape Town, South Africa, 2003. *"A FRAMEWORK FOR FAST HANDOFF SCHEMES IN WIRELESS ATM NETWORKS"*

M.Sc.: Telecommunications and Information systems, obtained from Aligarh Muslim University, India, 1993.

B.Sc.: Electronic and Computer Engineering from Alfateh University, Tripoli-Libya, 1990.

C. Employment History

March 1990 – March 1991: Assistant Staff Member & Laboratory Engineer — High Industrial Institute.

July 1993 – September 1996: Lecturer — Polytechnic Institute, Misurata-Libya — Misurata, Libya

September 1996 – 1999: Chairman, Department of Electronic and Computer Engineering — Polytechnic Institute, Misurata-Libya — Misurata, Libya

January 2004 – (end date not specified): Head, Electrical and Electronic Engineering Department — University of 7th of October

2009 – Present: Professor — Electronic Engineering Department, College of Industrial Technology-Misurata — Misurata, Libya

D. Research Interests

- Computer Software.
- Mobile Communication.
- Data Transmission.
- Communication Networks.
- Digital Computer Design.

E. Selected Publications

1. أحمد علي البرق سمية علي التومي جمال البرقلي "Arithmetic and Logic Unit Design Using VHDL Language", 30 العدد 30 , المجلة الدولية للعلوم والتقنية - العدد 30 ,
2. Hamza Eldenferia, Jamal Elbergali, "Influence of LMMSE Estimator on V-Blast wireless MIMO system using BPSK Scheme", International Conference on Technical Sciences (ICST2019), 2019.
3. Hamza Eldenferia, Jamal Elbergali, "The performance of Space Time Block Coding (STBC) in MIMO relay network", First Conference for Engineering Sciences and Technology (CEST 2018), 2018.
4. H.A. Eldenferia, J.R. Elbergali, "Performance Analysis of DTMF Detection using Modified Goertzel Algorithm over AWGN", First Conference of Industrial Technology (CIT2017), 2017.
5. Jamal R. Elbergali, "Performance Analysis of a Combined Ordered Successive and Interference Cancellation Using Zero-Forcing Detection over Rayleigh Fading Channels in MIMO Systems", ICECE 2015: 17th International Conference on Electronics and Communication Engineering, South Africa, 2015.
6. Jamal R. Elbergali, Neco Ventura, "Performance Analysis of Dynamic Switching between Spatial Multiplexing and Diversity over Rayleigh Fading Channels in MIMO-OFDM Systems using QPSK Modulation Scheme", SATNAC2014, South Africa, 2014.
7. Jamal R. Elbergali, "Performance Analysis of Shadowing Effect over Rayleigh Fading Channels in MIMO-OFDM Systems using QPSK Modulation Scheme", SATNAC2013, Stellenbosch, South Africa, 2013.
8. Elrowayati, J. Elbergali, "Medical Images Compression using Wavelet Transform and Neural Networks: Assessment of Reconstruction Quality Based on the Structural Information", The Libyan Arab International Conference on Electrical and Electronic Engineering, Tripoli, Libya, 2010.

9. J. Elbergali, A. Elrowayati, "Medical Images Compression using Lifting Wavelet and Adaptive Wavelet back propagation Neural Networks", Proceedings of Mosharaka International Conference on Communications, Propagation, and Electronics, Amman, Jordan, 2010.
10. J. Elbergali, A. Elrowayati, "Medical Images Compression using Wavelet Lifting Scheme Implementation and Artificial Neural Networks with Adaptive Learning-Rate Parameter", 3rd International Conference on Electrical Engineering and Technology, Sousse, Tunisia, 2009.
11. E. Saad, J. Elbergali, M. Ashibani, "Enhancing TCP Performance over Heterogeneous Networks", South African Telecommunications Network & Applications (SATNAC2006), Stellenbosch, South Africa, 2006.
12. Elhusain Saad, Jamal Elbergali, Majdi Ashibani, "Enhancing TCP Performance over Wireless Communication Networks", Libyan Arab International Conference on Electrical and Electronic Engineering, Tripoli, Libya, 2006.
13. Jamal Elbergali, Neco Ventura, "Performance modeling of an inter-cluster handoff path extension scheme in Wireless ATM networks", SAIEE Transactions, June 2004, vol. 94 No.2, 2004.
14. Jamal Elbergali, Neco Ventura, "Performance evaluation of a new fast path re-routing for inter-cluster handoff scheme in wireless ATM networks", IEEE ICCS'02, Singapore, 2002.
15. Jamal Elbergali, Neco Ventura, "Performance evaluation of a new fast inter-cluster handoff scheme in Wireless ATM networks", IEEE GLOBECOM'02, Taiwan, 2002.
16. Jamal Elbergali, Neco Ventura, "An adaptive route optimization for inter-cluster hand scheme in wireless ATM networks", SATNAC'02, South Africa, 2002.
17. Jamal Elbergali, Neco Ventura, "A new inter-cluster handoff technique to support real time applications in Wireless ATM networks", ICWN'02, Las Vegas, USA, 2002.
18. Jamal Elbergali, Neco Ventura, "Performance evaluation of an efficient inter-switch handoff scheme for wireless ATM Networks", SATNAC'01, South Africa, 2001.
19. Jamal Elbergali, Neco Ventura, "Backward and forward inter-switch handoff scheme for wireless ATM networks", SATCAM'00, South Africa, 2000.
20. Majdi Ashibani, J. Elbergali, "Performance of Data transmission using orthogonal groups of QAM", Libyan International Conference on Electrical & Electronic Engineering, Tripoli, Libya, 1995.
21. J. Elbergali, Majdi Ashibani, "Performance of Multipath fading on mobile Data transmission systems", Libyan International Conference on Electrical & Electronic Engineering, Tripoli, Libya, 1995.

F. Skills & Technical Competencies

- FORTRAN, Basic, C, C++, Math lab, Assembly Language. Python.