Curriculum Vitae
Ms. Niemah Izzeldin Mohamed Osman

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PROFESSIONAL PROFILE

I am a highly motivated and passionate university teacher with strong administrative experience and over seven years of experience in teaching and supervising undergraduate students. I am ready to use my academic and professional experience to impart knowledge, empower women in Computer Science and acquire a decision-making position in my field.

EDUCATION

Nov 2010 – Jan 2015 ***PhD in Communication Networks.***
School of Electronic and Electrical Engineering, University of Leeds, UK

Sep 2005 – Sep 2006 ***MSc with Distinction in Mobile Computing***.
School of Informatics, Bradford University, Bradford, UK

Aug 1998 – Aug 2002 ***BSc, First Class Honors in Computer Science***. Department of Computer Science, Sudan University of Science and Technology, Sudan.

WORK EXPERIENCE

Dec 2006 – Oct 2010 ***Assistant Professor***, Department of Computer Science, College of Computer Science and Information Technology, Sudan University of Science and Technology, Sudan.

Dec 2006 – Oct 2010 ***Lecturer***, Department of Computer Science, College of Computer Science and Information Technology, Sudan University of Science and Technology, Sudan.

Nov 2007 – Dec 2008 ***Head of Department of Computer Science***, College of Computer Science and Information Technology, Sudan University of Science and Technology, Sudan.

Aug 2002 – Sep 2005 ***Teaching Assistant***, Department of Computer Science, College of Computer Science and IT, Sudan University of Science and Technology, Sudan.

TEACHING EXPERIENCE

Teaching lectures in the following computer science courses:

Mobile Communications, Cellular Systems, Principles of Programming Languages (Java), Programming Methods (Java), Data Structures (Java), Concepts of Programming Languages and Object Oriented Programming (Java).

Assisting students in laboratories in the practical section of the following courses:

Data Structures (Pascal and Java), Programming Methods (Pascal and Java), Object Oriented Programming Languages (Java), Databases Management (Oracle), and Numerical Analysis (Pascal).

ADMINISTRATIVE AND OTHER EXPERIENCE

- Head of department of Computer Science, Sudan University.
- Head of the examinations committee, College of CS and IT, Sudan University.
- Member of the university senate, Sudan University.
- Member of the university committee for evaluation and accreditation, Sudan University.
- Member of the faculty graduate studies committee, Sudan University.
- Reviewer for a number of conferences and IET Journal of Networks.

RESEARCH INTERESTS

- Energy Aware communication networks.
- Content distribution networks.
- Performance modeling of mobile cellular systems.

ORGANIZATION MEMBERSHIP

- Student member of IEEE (Institute of Electrical and Electronics Engineers).
- Student member of ACM (Association for Computing Machinery).
- Member of ACM-W (Association for Computing Machinery Committee onWomen).
- Member of WiSET (Women in Science, Engineering and Technology network, University of Leeds).
- Member of IDB-UK (Islamic Development Bank student association UK).
- Member of the INTERNET (INTelligent Energy awaRE NETworks) project.

PUBLICATIONS

1. N. I. Osman, T. El-Gorashi, Louise Krug and J. M. H. Elmirghani, “Energy-Efficient Future High Definition TV”, Journal of Lightwave Technology, vol. 32, no. 13, pp. 2364–2381, 2014.
2. N. I. Osman, T. El-Gorashi and J. M. H. Elmirghani, “Caching in Green IP over WDM Networks”, Journal of High-Speed Networks (Green Networking and Computing), vol. 19, no. 1, pp. 33-53, 2013.
3. N. I. Osman, T. El-Gorashi and J. M. H. Elmirghani, “The impact of content popularity distribution on energy efficient caching”, IEEE 15th International Conference on Transparent Optical Networks (ICTON), pp. 1-6, June, 2013.
4. N. I. Osman, T. El-Gorashi and J. M. H. Elmirghani, “Reduction of Energy Consumption of Video-on-Demand Services using Cache Size Optimization”, IEEE Eighth International Conference on Wireless and Optical Communications Networks (WOCN), Paris, France, May 2011.
5. R. Ibrahim, R. Muhamed, S. Ahmad, H. Abbas and N. Osman, “’Iqlab’ Recognition Using Hidden Markov Models”, Communications of the Arab Computer Society, Vol. 4 No.2, December, 2011.
6. Niemah I. Osman and Mike E. Woodward, "A Comparison of Queuing Models for Handover Strategies in Cellular Mobile Telecommunication Systems", IEEE Second Asia International Conference on Modeling & Simulation (AMS), pp. 315-321, May, 2008.

CONFERENCES AND INTERNATIONAL PARTICIPATIONS

1. First Islamic Development Bank Student Scientific Symposium (IDB-SSS), May, 2014, University of Cambridge, UK (presenter).
2. ACM womENcourage Europe Conference, March 2014, University of Manchester, Manchester, UK.
3. INTelligent Energy awaRE NETworks (INTERNET) project board meeting, June, 2011, University of Cambridge, UK (poster presenter).
4. Eighth International Conference on Wireless and Optical Communications Networks (WOCN), Paris, France, May 2011 (presenter).
5. Creativity @ Home Facilitation Workshop, March, 2011, University of Cambridge, UK.
6. Second Asia International Conference on Modeling and Simulation, May 2008, Kuala Lumpur, Malaysia (presenter).
7. Eleventh Innovative Students Conference, August 2008, Lattakia, Syria (supervisor).

8. Fourth International Working Conference on Performance Modeling and Evaluation of Heterogeneous Networks, September 2006, Ilkley, UK.
9. Malaysia International Conference on Languages, Literature, and Cultures, April 2005, Kuala Lumpur, Malaysia.
10. ACM International Collegiate Programming Contest, November 2001, Cairo, Egypt (contestant programmer).

SCHOLARSHIPS AND AWARDS

- Best presentation award, First Islamic Development Bank Student Scientific Symposium (IDB-SSS), May, 2014, University of Cambridge, UK.
- Prize for motivation, First Islamic Development Bank Student Scientific Symposium (IDB-SSS), May, 2014, University of Cambridge, UK.
- Recipient of the Islamic Development Bank Merit Scholarship for PhD, November 2010 to July 2014.
- Award for academic excellence, October 1999, Sudan University of Science and Technology, Sudan.
- Award for academic excellence, October 2000, Sudan University of Science and Technology, Sudan.

TEXTBOOKS

- Author of "Programming Using Java", Open University of Sudan, October 2007, syllabus reference, distributed to students after registration.
- Author of "Java for Beginners", Sudan University of Science and Technology, August 2004, sold over 6,000 copies in Sudan.
- Coauthor of "Elmunhaj in Pascal", Sudan University of Science and Technology, February 2000, sold over 10,000 copies in Sudan.

SOFTWARE PRODUCTS

- Library System, College of Computer Science and Information Technology, Sudan University of Science and Technology, March 2004.
- Academic and Registration System, Elmanar High School, Khartoum, Sudan, April 2005.

REFERENCES

- Dr. Mohamad Alhafiz Mustafa,
  Associate Professor,
  College of Computer Science and Information Technology
  Sudan University of Science and Technology
  P.O. Box 407, Khartoum, Sudan
  Tel: 00249 183 780 491, Email: hafiz@sustech.edu

- Prof. Jaafar M.H. Elmirghani, BSc, PhD PGCUTL SMIEEE FIEE CEng FInstP
  Chair in Communication Networks and Systems
  Director of Institute of Interated Information Systems
  School of Electronic and Electrical Engineering, University of Leeds, LS2 9JT, UK
  Tel: 0044 113 343 2013, Email: J.M.H.Elmirghani@leeds.ac.uk