

Curriculum Vitae of

Mohamed Elhafiz Mustafa Musa

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Technology, Faculty of Computer Science and Information Technology.



Educational Achievement

- ✓ **B.Sc. Honors (Second Class, Division I) Faculty of Mathematical Sciences, Khartoum University – Khartoum, Sudan (1989)**
- ✓ **M.Sc. Faculty of Mathematical Department, Khartoum University – Khartoum, Sudan (1996)**
- ✓ **Ph.D. Computer Engineering Department, Faculty of Engineering, Middle East Technical University – Ankara, Turkey (2003)**

Professional Experience

- **Dean – College of Computer Science and Information Technology, Sudan University of Science and Technology – Khartoum, Sudan.** Mar. 2006
- **Dean deputy – Faculty of Computer Sciences and Information Technology, Sudan University of Science and Technology – Khartoum, Sudan.** Sep. 2005
- **M.Sc. coordinator – Faculty of Computer Sciences and Information Technology, Sudan University of Science and Technology – Khartoum, Sudan.** Feb.2005
- **Assistant Professor – Computer Dept., Faculty of Computer Sciences and Information Technology, Sudan University of Science and Technology – Khartoum, Sudan.** 2004-
- **Lecturer –Computer Engineering Dept., Faculty of Engineering, Cankaya University – Ankara, Turkey.** 2001 - 2004
- **Head of Computer Dept., Faculty of Science, Sudan University of Science and Technology – Khartoum, Sudan.** 1996 - 1997
- **Lecturer – Computer Dept. Faculty of Science, Sudan University of Science and Technology – Khartoum, Sudan.** 1995-1997
- **Head of Computer Department, Omdurman Ahlia College – Omdurman, Sudan** 1992 – 1993
- **Lecturer – Computer Department, Omdurman Ahlia College – Omdurman , Sudan** 1990-1994

During these periods I taught a diverse range of courses in Computer Science: Introduction to Computer Science, Pascal, C, Object Oriented Programming in C++, Java, Data Structure, file management, Algorithms Analysis and Design, Automata and Theory of Computation, Programming Languages Principles and Paradigms, Neural Networks and Pattern Recognition.

Publications

1. Musa, Mohamed M., Duin R. and de Ridder D., (2001) "Modeling Handwritten Digit Data Using Probabilistic Principal Component Analysis" Pro. 7th Annual Conference of the Advanced School of Computing and Imaging (ASCI) – Heijen, the Netherlands.
2. Musa, Mohamed M., M. Duin and de Ridder, D. (2001) "An Enhanced EM Algorithm for Mixture of Probabilistic Principal Component Analyzers", International Conference of Artificial Neural Networks (ICANN) 2001, Workshop on Kernel and Subspace Methods for Computer Vision – Vienna, Austria.
3. Musa, Mohamed M., Duin R., de Ridder, D. and Atalay, V. (2003) "Texture Segmentation Using The Mixture of Probabilistic Principal Component Analyzers", Eighteenth International Symposium on Computer and Information Sciences (ISCIS XVIII) – Antalya, Turkey.
4. Musa, Mohamed M. (2003) "Local Factor Analysis for Handwritten Digit Classification", International Conference for Signal Processing – Canakkale, Turkey.
5. Musa, Mohamed M., Duin, R., de Ridder, D., and Atalay, V. (2004) "Almost Autonomous Training of Mixtures of Probabilistic Principal Component Analyzers", Pattern Recognition Letters, Volume 25, Issue 9, pages 1085 - 1095.
6. Musa, Mohamed M., (2006) "Mixtures of Probabilistic PCA under Variance Preservation", ICGST International Conference on Artificial Intelligence and Machine Learning, Sharm Elsheikh, Egypt.
7. Musa, Mohamed M., (March 2008) "A Network for Arabic Language Technology", Higher Education in The Muslim World: Challenges and Prospects, International Institute for Muslim Unity, International University Malaysia, Kuala Lumpur, Malaysia t.

Current Areas of Interest

- Pattern recognition, Neural Networks, Data Mining, Arabic Recognition (document & speech).

Personal Data

- Nationality Sudanese
- Date/Place of birth 1963 – Omdurman, Sudan
- Marital Status Married with four sons

Languages

- Arabic (native)
- English (fluent)
- Turkish (basic)