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Osman Ali Sadek Ibrahim

Education

Doctor of Philosophy, School of Computer Science, Faculty of Science, The University of Nottingham; Nottingham; UK, 2013-2017.

• Thesis Title: "Evolutionary Algorithms and Machine Learning Techniques to Improve Information Retrieval System".

Master of Science, Computer Science, Minia University, EGYPT, 2004-2007, awarded

• Thesis Title: "Using Genetic Algorithm to Improve Information Retrieval Systems".

Bachelor of Science, Computer Science and Mathematics, Minia University, Al-Minya, Egypt; 1998-2002 (Very good, GPA: 83.7%).

Research Interests

Data Mining, Text Mining, Machine Learning, Databases, Information Retrieval, Computational Intelligence. At the moment I am a reviewer in [Genetic Programming and Evolvable Machines](#), [Cogent Engineering](#), and [HAIS2017](#).

Publications

- Osman A. S. Ibrahim and Dario Landa-Silva, An Evolutionary Strategy with Machine Learning for Learning to Rank in Information Retrieval, Accepted for Soft Computing Journal.
- Osman A. S. Ibrahim and Dario Landa-Silva, ES-Rank: Evolution Strategy Learning to Rank Approach, ACM Symposium on Applied Computing (SAC 2017), Marrakech, Morocco, April 03-07, 2017, ISBN: 978-1-4503-4486-9/17/04.
- (1+1)-Evolutionary Gradient Strategy to Evolve Global Term Weights in Information Retrieval. Osman A. S. Ibrahim and Dario Landa-Silva, Advances in Computational Systems, pp. 387-405, Vol. 513, Series Advances in Intelligent Systems and Computing, Springer, September 2016. Proceedings of the 16th Annual UK Workshop on Computational Intelligence (UKCI 2016), Lancaster, UK. DOI: 10.1007/978-3-319-46562-3_25.
- Term Frequency with Average Term Occurrences for Textual Information Retrieval. Osman A. S. Ibrahim and Dario Landa-Silva, Soft Computing Journal, Special Issue of UKCI-2014, Nov., 2015. DOI: 10.1007/s00500-015-1935-7.
- A New Weighting Scheme and Discriminative Approach for Information Retrieval in Static and Dynamic Document Collections. Osman A. S. Ibrahim and Dario Landa-Silva. *Proceedings of the 14th UK Workshop on Computational Intelligence (UKCI2014), Bradford UK, September 2014.*
- Ahmed A. A. Radwan, Bahgat A. Abdel-Latef, Abdel-Mageid A. Ali and Osman

- A. Sadek, "A New Fitness Function Based Genetic Algorithm to Improve Information Retrieval Systems", Third International Conference On Intelligent Computing and Information System, Ain Shams University, Cairo, Egypt, pp. 83-87, March 15-18, 2007.
- Ahmed A. A. Radwan, Bahgat A. Abdel-Latef, Abdel-Mageid A. Ali and Osman A. Sadek, "Using Genetic Algorithm to Improve Information Retrieval Systems", International Enformatika Conference, IEC 2006, ISSN 1305-5313, Ain Shams University, Cairo, Egypt, pp. 6-12, December 2006.
 - Ahmed A. A. Radwan, Bahgat A. Abdel-Latef, Abdel-Mageid A. Ali and Osman A. Sadek, "An Information Retrieval Using Weighted Index Terms in Natural Language Document Collections", Proceeding of the 5th International Business and Information Management Association (IBIMA), Cairo, Egypt, pp. 635-640, December 13-15, 2005.

Research Experience

PhD Researcher Student, Computer Science School, The University of Nottingham, Nottingham, 2013 – 2017.

PhD internship with Horizon Digital, The University of Nottingham from 7/8/2017 to 17/11/2017.

Research Assistant, Computer Science School, Minia University, Egypt, 2004 – 2007.

Teaching Expertise

- 1 Teaching Assistant, Faculty of Science, Computer Science Department, Minia University, Egypt 2003-2009.
- 2 Teaching Assistant, School of Computer Science, University of Nottingham 2016.

Technical Skills

Operation Systems

- Dos, Windows: 98, ME, XP, 7, 8.1, 10 and Linux

Programming Languages

- C
- C++
- Pascal
- Java
- Python
- Ruby

Statistical analysis Tools

- R packages for statistical analysis and machine learning.
- Rattle

Languages

Arabic: Excellent mother tongue and English: Fluent.