CURRICULUM VITAE

PERSONAL DETAILS

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Dr. Rawaa Dawoud Hassan Al-Dabbagh
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BIOGRAPHY

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Rawaa Dawoud Al-Dabbagh received the BSc. degree in Computer Science from University of Al-Nahrain, in 1995, and Master of Computer science from University of Baghdad, in 2000 and PhD in Artificial Intelligence from University of Malaya in 2015. She is currently lecturer at Department of Computer Science, University of Baghdad. Dr. Rawaa is the author and co-author of more than 14 publications in international journals and proceedings. She is actively involved in research and teaching consultancy, for major corporations in the Artificial Intelligence projects and courses. Her research interest includes soft computing, machine learning, evolutionary computation, robotics and logic programming and reasoning.

ACADEMIC QUALIFICATION

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PHD(2015) (UM), UNIVERSITY OF MALAYA
MSC (2000) , UNIVERSITY OF BAGHDAD
BSC (1995), AL-NAHRAIN UNIVERSITY

PROFESSIONAL

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IEEE – Professional Member   (2011)

IEEE CIS – Computational Intelligence Society Memebr (2014)
IEEE Computer Society Membership   (2014)
IEEE IoT – Internet of Things Community Member   (2016)
IEEE Young Professionals   (2016)

AREAS OF EXPERTISE
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Artificial Intelligence (Soft Computing, Machine Learning, Adaptive Algorithms, Logic Programming, Expert System, Natural Language Processing and Robotics)

Artificial Intelligence in Computer Security (Cryptology and Cryptanalysis)

TEACHING
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Undergraduate Study

Advanced Artificial Intelligence, 2000/2001
Logic Programming, 2000/2001
Machine Learning, 2007/2008
Introduction to Artificial Intelligence, 2015/2016
Robot Control, 2015/2016

Post Graduate

Evolutionary Computation, 2015/2016

PUBLICATIONS
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Books

Book Chapters

Basad Ali Hussain Al-Sarray, Rawa'a Dawoud Al-Dabbagh: *Variants of Hybrid Genetic Algorithms for Optimizing Likelihood ARMA Model Function and Many of Problems.* Evolutionary Algorithms, 04/2011; , ISBN: 978-953-307-171-8

Journal Publications

Mohanad Dawood Al-Dabbagh, Rawaa Dawoud Al-Dabbagh, RSA Raja Abdullah, F Hashim: *A new modified differential evolution algorithm scheme-based linear frequency modulation radar signal de-noising*. Engineering Optimization 06/2015; 47(6):771-787. DOI:10.1080/0305215X.2014.927449

Rawaa Dawoud Al-Dabbagh, Saad Mekhilef, Mohd Sapiyan Baba: *Parameters' fine tuning of differential evolution algorithm*. Computer Systems Science and Engineering 03/2015; 30(2):125-139.

Rawaa Dawoud Al-Dabbagh, Azeddien Kinsheel, Mohd Sapiyan Baba, Saad Mekhilef: *A combined compact genetic algorithm and local search method for optimizing the ARMA(1,1) model of a likelihood estimator*. ScienceAsia 02/2014; 40S(1). DOI:10.2306/scienceasia1513-1874.2014.40S.078

Alireza Tamjidyamcholo, Rawaa Dawoud Al-Dabbagh: *Genetic algorithm approach for risk reduction of information security*. International Journal of Cyber-Security and Digital Forensics 2012; 1(1): 59-66.

Rawa'a Dawoud Hassan Al-Dabbagh: *COMPACT GENETIC ALGORITHM FOR CRYPTANALYSIS TRAPDOOR 0-1 KNAPSACK CIPHER*. Journal of Al-Nahrain University 07/2009; 12(2):137-145.

Basa'd Ali Hussain, Rawa'a Dawoud Al-Dabbagh: *A canonical generic algorithm for likelihood estimator of first order moving average model parameter*. Neural Network World 03/2007; 17(4):271-285.

Conference Proceedings

Rawaa Dawoud Al-Dabbagh: *Differential evolution with adaptive repository of strategies and parameter control schemes*. Evolutionary Computation (CEC), 2015 IEEE Congress on, Sendai, Japan; 05/2015

Rawaa Dawoud AL-Dabbagh, János Botzheim, Mohanad Dawood Al-Dabbagh: *Comparative analysis of a modified differential evolution algorithm based on bacterial mutation scheme*. Differential Evolution (SDE), 2014 IEEE Symposium on, Orlando, FL; 12/2014

Mohanad Dawood Al-Dabbagh, R.S.A Raja Abdullah, Rawaa Dawoud Al-Dabbagh, F. Hashim: *Differential Evolution Algorithm for Linear Frequency Modulation Radar Signal Denoising*. IEEE RF and Microwave Conference (RFM) 2013, Penang; 12/2013

Rawaa Dawoud Al-Dabbagh, Azeddien Kinsheel, Mohd Sapiyan Baba, Saad Mekhilef: *An Integration of Compact Genetic Algorithm and Local Search Method for Optimizing*

ARMA (1, 1) Model of Likelihood Estimator. 2nd International Conference on Computer Science and Computational Mathematics (ICCSCM 2013); 02/2013

Rawaa Dawoud Al-Dabbagh, Mohd Sapiyan Baba, Saad Mekhilef, Azeddien Kinsheel: *The Compact Genetic Algorithm for Likelihood Estimator of First Order Moving Average Model.* 2012 2nd International Conference on Digital Information and Communication Technology and its Applications, DICTAP 2012; 05/2012

Basa'd Ali Hussain, Rawa'a Dawoud Al-Dabbagh: *Hybrid Canonical Genetic Algorithm and Steepest Descent Algorithm for Optimizing Likelihood Estimators of ARMA (1,1) Model.* 2008 FIRST INTERNATIONAL CONFERENCE ON THE APPLICATIONS OF DIGITAL INFORMATION AND WEB TECHNOLOGIES; 08/2008

SUPERVISION
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Master Degree, Ahmed Jasim Jabur, Differential Evolution in the Deployment of Wireless Networks. 2016/2017 (**on going**)

EXPERT LINKAGES
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Co-supervisor in IREX project for practical robot, educational course (STEM/COIL), University of Baghdad, College of Education for Pure Science, Ibn al-Haytham, 2016/2017

EVALUATION ACTIVITIES
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Internal Examiner for Sajjad Haitham Hendi, "Robot System for Tracking Moving Objects", Master Thesis. (2015/2016)

Internal Examiner for Dlsoz Abddalkarim Rashid, "A Multi-objective Set Covers Problem for Energy Efficient Target Covarge in Wireless Sensor Networks", Master Thesis. (2015/2016)

Internal Examiner for Hussein Noori Saadoon, "Autoregressive Modeling for Medical Image Compression", Diploma Project. (2015/2016)

Internal Examiner for Dalal Fadhil Mohamed, "Implementation of Two-level Huffman Algorithm for Text File Compression". Diploma Project (2016/2017)

Reviewer for Neural Network Computing journal, Article in Journal (2015/2016).

Reviewer for ACM Computing Survey journal, Article in Journal (2016/2017).

Reviewer for Iraqi Journal of Science, Article in Journal (2015-still).

Reviewer for 2016 10th International Power Engineering and Optimization Conference (PEOCO2016), Article In Proceeding. (2015/2016).

Reviewer for 2015 IEEE Symposium on Differential Evolution (IEEE SDE'15), Article In Proceeding. (2015/2016).

Reviewer for 2017 Annual Conference on New Trends in Information & Communications Technology Applications (NTICT'2017), Article In Proceeding. (2016/2017).