Dr. Yasser Fouad Mahmoud Hassan, PhD

Associated Professor of Computer Science

Alexandria University, Alexandria

Egypt

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INFORMATION

Nationality	Egyptian
Birth Date	20 May 1974
Scopus ID	7102596984
ORCID	0000-0001-9736-2136
Google Scholar link:	https://scholar.google.com/citations?user=AyyXAm0AAAAJ&hl=en

EDUCATION

1992/ 1996	BSc. (Bachelor of Science): Computer Science from Faculty of Science – Alexandria University.
2000/ 2003	PhD. In Computer Engineering from Toin University of Yokohama- Japan

TRAINING

2016	Strategic Planning in universities
2016	Quality performance in the educational process
9 September 2015	Building Strategic Partnership, Workshop, Alexandria University
December 2012	Share Point 2010 overview and End User Business Training
2009	Preparing and writing scientific research and dissemination of internationally
2009	Organizing scientific conferences
2007	New trends in teaching

2006	Teaching evaluation
2005	Code of Ethics
2005	Effective communication skills

Awards

2008	Certificate of appreciation from the Minister of Higher Education for the Management of Digital Library Project

Employment

31 march 1997 -31 Aug. 2000	TA of computer science at Alexandria University- Faculty of Science
1 April 2004 - 10 June 2011	Lecturer of Computer Science at Alexandria University
11 June 2011 - Now	Associated Professor of Computer Science at Alexandria University
2005 - 2006	Manager of Computer Unit at Faculty of science Alexandria University
2006 - 2007	Manager of Computer Center at Faculty of science (Moharem Beck) Alexandria University
2006 - 2011	Manager of Digital Library Project - Alexandria University
2009 - 2017	Manager of Alexandria University Digital Portal & web sites
2004 - 2017	Part Time at AAST
2004 - 2017	Part Time at AIET

SCIENTIFIC SOCIETIES

2003	ACM
2005	Egyptian Society of Mathematics
2007	Egyptian Society of Computing

COMMITTEE APPOINTMENTS

7 May 2012	How to create staff web site, Public Lecture, Faculty of Dentistry, Alexandria University

26 November 2015 Alexandria university portal, Public Lecture, Faculty of Science, Alexandria University

25 October 2016 Arab Nation organization, Cairo, Egypt
International Ranking of Arab Universities Workshop
- Lectures given

CONFERENCES

2009 International Conference in Electrical, computer science, Oslo, Norway

2011 International Conference in Electrical, Computer, Electronics and communication Engineering (ICECECE), Paris, France

2011 Conference in Library science, Cairo, Egypt

2013 International Conference in computer science, Dubai, EMARAT

RESEARCH Points

Artificial Intelligence,
Soft Computing,
Machine Learning,
Neural Networks,
Cellular automata

Supervision

1. PhD Thesis, Induction of Knowledge using Evolutionary Rough Sets, Wedad Sakr, Alexandria University 2007
2. PhD thesis, Emergence in two-dimensional uniform and non-uniform cellular automata, Khaled Elsayed, 2007
3. MSc Thesis, Video coding using GPU, Hadeer Said, Alexandria University, 2017
4. MSc thesis, Soft computing in medical data analysis, Aya Mohamed hassan, Alexandria University, 2017
5. MSc thesis, using support vector machine in pattern recognition, Sheerin abd el radi, Alexandria University, 2016
6. MSc thesis, Using Gene Expression Programming in Learning Process of Rough Neural Networks, Sanaa Rashed, Alexandria University, 2015
7. MSc thesis, Enhancing search engine result through iterative query reformulation, Sara Saad, Alexandria University, 2015
8. MSc thesis, Automatic synthesis of 3-bit reversible circuits as quantum dot cellular automata, Ahmed Abd el kadar, Alexandria University, 2015
9. MSc thesis, Image Processing using Cellular Automata and Soft Computing, Heba Ibrahim, Alexandria University, 2012

10. MSc thesis, Genetic Programming in the Learning of Hopfield Neural Networks, A. O. Ben-Taher, Alexandria University, 2012
11. MSc thesis, Integrating Support Vector Machine and Genetic Algorithms to Classification Systems, Noha Adam, Alexandria University, 2011
12. MSc thesis, Biometric using Neural Networks and Rough Set Theory, Nora habib, Alexandria University, 2011
13. MSc thesis, on some computational methods in neural networks, Mohamed Hassan, Alexandria University, 2011
14. MSc thesis, reasoning about actions in fuzzy environment, Shimaa el morsy, Alexandria University, 2010
15. MSc Thesis, Tracking Model for Gesture Recognition, Nermin el kashef, Alexandria University, 2009
16. MSc thesis, intelligent web search agents, Mohamed Khatab, Alexandria University, 2009
17. MSc Thesis, Synthesis and Adaptation of Multi-Agent System, Marwa Abdeen, Alexandria University, 2008
18. MSc Thesis, Reducing the Response Time for Data Warehouse Queries Using Rough Set Theory, Wesam Fathy Gasser, Alexandria University, 2007
19. MSc Thesis, A Comparative Study of Wavelet, Rough and Standard Neural Networks, Amel Abd Elrahman Meaitia, Alexandria University, 2006
20. MSc Thesis, Emergent in 2D uniform and non-uniform cellular automata, Khaled El-Sayed, Alexandria University, 2005
21. MSc thesis, Multi-Agent System Communication Protocol Design using Cellular Automata, Hisham Salah, Arab Academy for Science, Technology and Marines, 2005

Discussion Committee of Master of Science

1- Heba Khalil, to enhance the search engine results by semantic meaning, MSc in computer science, Faculty of Computing and information, Benha University, 2016

2-Khatab Khorshed, Data mining using optimal method search engine, Institute of graduate studies and research, Alexandria University, 2015

3-Naeal Hassien, A novel framework for electronic global health record access, Information system Master, Arab academy for science, technology & maritime transport, 2015

4-Mohamed Youssef, Spatio-Temporal Models for Brain Tumor Grow, Computer Engineering Master, Arab Academy of Science, Technology, and Maritime Transport, 2014

Teaching Courses

Computer programming,
Artificial Intelligence,
Computer Graphics,
Operating Systems,
Distributed Systems,
Database System,
Software Engineering

Thesis Title:

EMERGENT COMPLEX BEHAVIORS IN HYBRID ROUGH SET MODELS AND THEIR ORGANIZATION IN CELLULAR SYSTEMS

Abstract: AI has made great strides in computational problem solving using explicitly represented knowledge extracted from the task. If we continue to use explicitly represented knowledge exclusively for computational problem solving, we may never computationally accomplish a level of problem solving performance equal to humans. The dissertation uses ideas from machine learning and artificial intelligence to provide the model of emergent system based on rough set theory. The main value of the study is that it provides an illustration of how simple learning processes may lead to the formation of the agent behavior, which can give an emergence to the system.

PERSONAL DATA

DATE OF BIRTH:

- 20 May 1974

PLACE OF BIRTH

- Alexandria - Egypt

LANGUAGES

- Arabic + English

MARITAL STATUS

- Married

CHILDREN

- Two sons and one daughter

Reference:

Prof Hassan Nadeer

Formal Head of Alexandria University

Prof Hany Shreif

Formal Head of Mathematics department – Faculty of Science – Alexandria University

Prof Essam El Kordi

Head of Alexandria University

PUBLICATIONS

High Citied Journals

1) Yasser F. Hassan, Multi-Level Thinking Cellular Automata using Granular Computing, IET Intelligent transport systems, DOI. 10.1049/iet-its.2017.0195, ISSN: 1751-9578, 11pp.
2) Yasser F. Hassan, Rough Set Machine Translation using Deep Structure and Transfer Learning, Journal of Intelligent and Fuzzy Systems(JIFS), 2018
3) Yasser F. Hassan, Rough Set Classification Based on Quantum Logic, Journal of Experimental & theatrical artificial intelligence, vol. 29, No. 6, pp. 1325-1336, 2017
4) Yasser F. Hassan, Deep Learning Architecture using Rough Sets and Rough Neural Networks, International Journal of System and Cybernetics "Kybernetes", Vol. 46, No. 4, pp. 693-705, 2017
5) Ayah M. Hassan, Yasser F. Hassan, Mohamed H. Kholief, A Deep Classification System for Medical Data Analysis, Journal of Medical Imaging and Health Informatics, 8, pp. 250-256, 2018
6) Nermeen El Kashef, Yasser F. Hassan, Khaled Mahar, Mustafa H. Fahmy, Philosophy of gustatory perception strategy for hand gesture recognition, International Journal of System and Cybernetics "Kybernetes", Vol. 44, No. 3, pp. 451-459, 2015
7) Yasser F. Hassan, Rough sets for adapting wavelet neural networks as a new classifier system, Springer applied intelligence journal 35 (2), pp. 260-268, 2011
8) Yasser Hassan, Daisuke Yamaguchi and Eiichiro Tazaki, New Model Based on Cellular Automata and Multiagent Techniques, Cybernetics and Systems: Vol. 38, No. 1, pp. 47-82, 2007
9) Yasser Hassan and Eiichiro Tazaki, Emergent rough set data analysis, Kybernetes, Vol. 34, No. 6, pp. 869-887, 2005
10) Yasser Hassan and Eiichiro Tazaki, Emergence Decision using Hybrid Rough Sets/Cellular Automata, International Journal of System and Cybernetics "Kybernetes", Vol. 35, No. 6, pp. 797-813, 2006.
11) Yasser Hassan and Eiichiro Tazaki, Combined Method of Rough Set and Genetic Programming, International Journal of System and Cybernetics "Kybernets", Vol. 33, No. 1, pp. 98-117, 2004
12) Yasser Hassan and Eiichiro Tazaki, Emergent Phenomena in Cellular Automation Modeling, The International Journal of System and Cybernetics “Kybernetes”, Vol. 32, No. 3, pp. 251-275, 2003.
13) Yasser Hassan, Eiichiro Tazaki: Adaptive Behavior in Cellular Automata Using Rough Set Theory. Applied Artificial Intelligence 17(2): 155-175, 2003
14) Yasser Hassan, Eiichiro Tazaki: Induction of Knowledge Using Evolutionary Rough Set Theory. Cybernetics and Systems 34(8): 617-643, 2003
15) Yasser Hassan, and Eiichiro Tazaki, Egawa, S., Suyama, K., Decision Making Using Hybrid Rough Sets and Neural Networks, International Journal of Neural Systems, Vol. 12, No. 6, pp. 435-446, 2002.

International Journals

1) Amal Bin Omar, Yasser F. Hassan, Online Incremental Rough Set Learning in Intelligent Traffic System, International Journal of Advanced Computer Science and Applications (IJACSA) – Vol. 9, No. 3, 2018.
2) Yasser F. Hassan, Fractional Integral Model in Cellular Automata Embedded for Biometric Recognition, ICIC Express Letters -- An International Journal of Research and Surveys, 2018.

3) Mabruka Ahmed, Yasser F. Hassan, Ashraf Elsayed, Transfer learning using Rough sets for medical data classification, ICIC Express Letters -- An International Journal of Research and Surveys, 2018
4) Hani M. Arwag, Yasser F. Hassan, Ashraf S. EL Saiad, Ranking Egyptian Universities Using Fuzzy Logic, International Journal of Emerging Research in Management &Technology Vol. 6, No. (8), 2017, pp. 40-52
5) Rabha Omar, Yasser F. Hassan, M. W. Saleh, New Deep Kernel learning Based Models for Image Classification, International Journal of Advanced Computer Science and Applications (IJACSA) – Vol. 8 No. 7 July 2017 (DOI) : 10.14569/IJACSA.2017.080755
6) Yasser F. Hassan, Shereen A. Mohamed, and Mohamed A. Abdou, A Cascaded Speech to Arabic Sign Language Machine Translator using Adaptation, International Journal of Computer Applications (IJCA), Vol. 2016.
7) Yasser F. Hassan, Ahmed Moustafa, Ahmed Younes, A Customizable Quantum-Dot Cellular Automata Building Block for the Synthesis of Classical and Reversible Circuits, The Scientific World Journal, vol. 2015, 9 pages, 2015. doi:10.1155/2015/705056
8) Yasser F. Hassan, Sara Soliman, Maged Elsayed, Semantic Clustering of Search Engine Results, The Scientific World Journal, Vol. 2015.
9) Yasser F. Hassan, Classification process using hybrid model of rough neural networks and gene expression programming, International journal of Robotics and Mechatronics, Vol. 2, no. 4, pp. 122-131, 2015
10) Yasser F. Hassan, Rough neural networks in adapting cellular automata rule for reducing image noise, International journal of Computer, Electrical, Control and Information Engineering, Vol. 8, No. 1, pp. 752-755, 2014
11) Yasser F. Hassan, New model of rough neural networks based on rough dependency to adapt cellular automata model, Jokull Journal, Vol. 64, No. 5, 2014
12) Yasser F. Hassan, Multi-Layer Rough Cellular Automata for Web Structure Adaptation, Wulfenia Journal, Vol. 21, No. 5, 2014
13) Yasser F. Hassan, Cellular Automata for Adaptive Web Portal Structure in Egyptian Universities, International journal of engineering science & emerging technologies, Vol. 6, No. 2, pp. 133-141, 2013
14) Yasser F. Hassan, Ahmed Younes, and Nelly S. Elsayed, Artificial Immune System and Soft Computing, International Journal of Computer Science, Information Technology, & Security (IJCSITS), Vol. 3 No.3, pp. 2249-9555, 2013
15) Yasser Hassan, Rough Set Adaptive in the Model Based of Cellular Automata and Multi-Agents, Journal of Emerging Trends in Computing and Information Sciences, Vol.2 No.9, pp. 440 – 446, 2011
16) Yasser F Hassan and Amal O. Ben-Taher, Genetic Programming in the Learning of Hopfield Neural Networks, International Research Journal of Engineering and Technologies (IRJET), Vol. 4, No. 4, 2012
17) Yasser F Hassan and Nora Habeb, Hybrid System of PCA, Rough Sets and Neural Networks for Dimensionality Reduction and Classification in Human Face Recognition, International journal of Intelligent information processing, Vol. 3, No. 1, 2012
18) Yasser Hassan, Mohamed Kholief and Mohamed Hassan, Automatically Detecting Relevant Technical Teams for Requested Issues in Issue Tracking Systems by Using Semantic Web Technology, International Journal of Information and Communication Technology, Vol. 1, No. 5, 2011
19) Yasser Hassan, Mahmoud Gabr, and Khaled Mohamed, Cryptography with Cellular Automata, International journal of computational and applied mathematics, Vol. 3, 2009

20) Yasser Hassan, Mohamed Khattab, and Osama Abu Rawash, Proposed Protocol to Solve Discovering Hidden Web Hosts Problem, International Journal of Computer Science and Network Security, Vol. 9, No. 8, 2009
21) Yasser Hassan, Sanjeev Kumar Singh, Munindra Borah, Mahmoud MH Gabr, Khaled Mohamed, a Comparative Performance of Swarm Intelligence Optimization Method and Evolutionary Optimization Method on Some Noisy Numerical Benchmark Test Problems, International Journal of Computational and Applied Mathematics (IJCAM), Vol. 4, No. 1, 2009
22) Yasser Hassan and Wessam Jasar, MM Al-Bouraie, Reducing the Response Time for Data Warehouse Queries Using Rough Set Theory, Advances in Computational Sciences and Technology 2 (3), 359-366, 2009
23) Yasser Hassan, Shin Egawa, Kazuho Suyama, Gary J Miller, Eiichiro Tazaki, Atsushi Takahashi, Masashi Tanaka, Jun Nakashima, Yoshiteru Sumiyoshi, Yoichi Arai, Taiji Tsukamoto, Masaru Murai, Jun Shimazaki, WS3-6 Prediction of pathological stage and biochemical recurrence after radical prostatectomy for clinically resettable prostate cancer in Japanese men, 日本泌尿器科學會雜誌, Science Society of Japan Journal of Urology, Vol. 95, No. 2, 1-243, 2004
24) Yasser Hassan and Eiichiro Tazaki, Emergent Rough Set Data Analysis, Transactions on Rough Sets II: Rough Sets and Fuzzy Sets, James F. Peters (ed.), Springer, pp. 343-361, 2005.
25) Yasser Hassan and Eiichiro Tazaki, Emergent rough set data analysis, Lecture Notes in Computer Science 3135, pp. 343-361, 2004
26) Yasser Hassan, Eiichiro Tazaki, Rough Set and Genetic Programming, Studies in Fuzziness and Soft Computing 125, 197-210, 2003
27) Yasser Hassan and Eiichiro Tazaki, Emergent Model Based on Hybrid Rough Sets Systems, Complex System, Vol. 14, No. 3, pp. 235-262, 2003Yasser Hassan, Eiichiro Tazaki: Emergent Computation Using a New Model of Cellular Automata. Applied Artificial Intelligence 17(1): 39-69, 2003
28) Yasser Hassan, A. Niimi, and Eiichiro Tazaki, Emergence in Combined System Structure of Rough Set Theory and Neural Network, International Journal of Knowledge-Based Intelligent Engineering Systems, Vol. 7, No. 1, pp. 9-16, 2003
29) Yasser Hassan and Eiichiro Tazaki, Rough Set and Genetic Programming, In Inuiguchi, M., Tsumoto, S., and Hirano, S., (Eds.), Rough Set Theory and Granular Computing, Springer, Vol. 125, pp. 197-210, 2003.
30) Yasser Hassan and Eiichiro Tazaki, Multiagent Cellular Automata Model, In Jain, L. C. (Ed.), Learning, Coordination and Communication in multi-agent systems, theory and applications, IOS press, 2003.
31) Yasser Hassan, Eiichiro Tazaki, Daisuke Yamaguchi, Cellular Automata Model Based on Multiagent Techniques, Lecture Notes in Computer Science, No. 2774 part 2, pp. 1396-1404, 2003

International Conferences

1) Mohamed Ali, Said Fathalla, Mohamed Kholief, Yasser F. Hassan, the problem Learning Non-Taxonomic Relationships of Ontologies from Unstructured Data Sources, Proceedings of the 23rd International Conference on Automation & Computing, University of Huddersfield, Huddersfield, UK, 7-8 September 2017
2) Yasser F. Hassan, Mohamed Khosruf, Abdullah Al-Rashed, Passwords Management Users Views and Practices, International computer sciences and informatics conference (ICSIC 2016), 2016

3) Yasser F. Hassan, SA Elmorsy, MA Abdou, a Elsayed, K3. A region growing liver segmentation method with advanced morphological enhancement, Radio Science Conference (NRSC), 2015 32nd National, 418-425
4) Yasser F. Hassan, Khaled Mahar, Nermin ElKashief and Mostafa Fahmy, Feature Extraction for Trajectory Representation of Sign Language Recognition, ICCTA 2013 International Conference on Computer Theory and Applications, Egypt, 2013
5) Yasser F. Hassan, Said Fat Allah, Mohamed Hassan, and Mohamed Kholief, Ontology-Based Approach for Automated Issue Classification in an Issue Tracking System, ICCTA 2013 International Conference on Computer Theory and Applications, Egypt, 2013
6) Yasser F. Hassan and Said Fat Allah, A hybrid method for user query reformation and classification, International Conference ICCTA, 2012
7) Yasser Hassan and Noha Adam, Integrating Support Vector Machine and Genetic Algorithms to Iris Classification, International Conference on Computer Engineering and Bioinformatics – ICCEB 2011
8) Yasser F. Hassan, Mohamed Kholief and Mohamed Hassan, Issue Tracking Systems Using Semantic Web Technology, International Conference on Computer, Electrical, and Systems Sciences, and Engineering, 2011
9) Yasser F. Hassan, Hany Hamdy, M. El Sherbany, An intelligent approach for prediction dropped packets, International conference on intelligent computing and information systems ICICIS, 2011
10) Yasser Hassan, and Marwa Abdeen, Agent Decision using Granular Computing in Traffic System, International Conference on Electrical, Computer, Electronics and Communication Engineering, Paris, 2011

11) Yasser Hassan and Heba Ibrahim, KNN Adaptive in Cellular Automata for Image Processing Problems, Fifth International Conference on Intelligent Computing and Information Systems (ICICIS), 2011
12) Yasser Hassan, Emad Saad, Shimaa Elmorsy, Mahmoud Gabr, Reasoning about actions in fuzzy environment, The World Congress of the International Fuzzy Systems Association/European society for Fuzzy Logic and Technology, IFSA/EUSFLAT, 825-830, 2009
13) Yasser Hassan, Nermeen Kashef, Haythem El-messiry, and Mohamed el-shandidy, Sign Language Recognition based on a Combination between Neural Networks and Hidden Markov Models, Fourth international Conference on Intelligent Computing and Information Systems, 693-698, 2009
14) Yasser F. Hassan, Mohamed Khattab, and Osama Abu Rawash, Proposed protocol to solve discovering hidden web hosts problem, ICCTA'08, 2008Yasser Hassan and Wessam Jasar, Reducing the Response Time for Data Warehouse Queries Using Rough Set Theory, Proceeding of The Fourth International Conference on: A new trend in informatics: The way ahead, INFOS006, Egypt, 2006 .
15) Yasser Hassan, Wedad Sagara and Osama Badawy, Rough Set Approach to Decision Tree Construction, Proceeding of The Fourth International Conference on: A new trend in informatics: The way ahead, INFOS006, Egypt, 2006
16) Yasser Hassan, Eiichiro Tazaki, Interpretation of Rough Neural Networks as Emergent Model, Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing: 9th International Conference, Guoyin Wang (Edi.), pp. 245-250, Springer, 2003
17) Yasser Hassan, Eiichiro Tazaki, Daisuke Yamaguchi, Cellular Automata Model Based on Multi-Agent Techniques-Application to Congestion Control in Traffic Systems, Faji Shisutemu Shinpojiumu Koen Ronbunshu 19, 311-312, 2003

18) Yasser Hassan, Eiichiro Tazaki, Daisuke Yamaguchi: Cellular Automata Model Based on Multiagent Techniques. Knowledge-Based Intelligent Information and Engineering Systems KES03: 1396-1404, 2003Yasser Hassan, Eiichiro Tazaki, Egawa, S., Suyama, K., Rough Neural Classifier System, Proceedings of the IEEE International Conference on Systems, Man and Cybernetics 5, pp. 470-475, 2002.
19) Yasser Hassan, Baba, N.; Eiichiro Tazaki, Traffic model based on multi-agent cellular automata technique, SICE 2003 Annual Conference, pp. 647 - 650 Vol.1, 2003
20) Yasser Hassan, and Eiichiro Tazaki, Emergent Growth Using Rough Set Theory, Proceedings of International Conference on Soft Computing and Intelligent Systems, (CD-ROM) SCIS&ISIS, 2002.
21) Yasser Hassan, Eiichiro Tazaki, Cellular Automata using Rough Set Approach to The Traffic Decision System. Proceedings of the Annual Conference of JSAI 16, 210-213, 2002
22) Yasser Hassan, K. Mangyoku, Eiichiro Tazaki, Cellular Automata Based on Rough Set Theory, Faji Shisutemu Shinpojiumu Koen Ronbunshu 18, 427-430, 2002
23) Yasser Hassan, N. Baba, Eiichiro Tazaki, Constructing a Medical Diagnosis Assistance System using Rough Neural Networks, Faji Shisutemu Shinpojiumu Koen Ronbunshu 18, 99-100, 2002
24) Yasser Hassan and Eiichiro Tazaki, Rule extraction based on rough set theory combined with genetic programming and its application to medical data analysis, IEEE Intelligent Information Systems Conference, The Seventh Australian and New Zealand, pp. 385-390, 2001
25) Yasser Hassan and Eiichiro Tazaki, Emergence in Combined System Structure of Rough Set Theory and Genetic Programming, Proceedings of knowledge-based intelligent information engineering systems & applied technologies International Conference KES'2001, Part 2, N. Baba, L.C. Jain, and R. d. Hewlett (ed.) IOS press, pp. 1458-1462, 2001.
26) Yasser Hassan and Eiichiro Tazaki, Knowledge Discovery Using Rough Set Combined with Genetic Programming, Proceedings of RSTGC'2001 International Conference, Vol. 5, No. 1, pp. 75-79. 2001