



Samaher AL_JANABI

Assistant Professor
Department of Computer Science,
Faculty of Science for Women (SCIW)
University of Babylon, Babylon
Iraq

Biography

Samaher Al-Janabi received her BSc, MSc and PhD degrees in Computer Science from Science College, University of Babylon, Iraq. Through her years of study, she specialized in the design, implementation and performance measurement and intelligent analysis of huge/bigdata, databases. She is a Lecturer in the Departments of Software, Computer and Information Network respectively. Her research interests span topics concerning Intelligent Data Analysis, Knowledge Discovery in Databases, Soft Computing Techniques, Artificial Intelligence, Data Mining, Predication Techniques, Mobile Services, Internet of Things and Network Security. She has published well over thirty five scientific papers and authored three books on new trends of KDD and one book on soft computing techniques, while, the third intelligent miner of huge medical database. She is a one from five women winner the L'Oreal–UNESCO for Women in Science Levant and Egypt Regional Fellowships 2014. She is a reviewer of several local and international journals.

Education

- **Science College, Babylon University, Iraq**

- Ph.D., Department of Computer Science, 2008-2012 :

- ✓ Thesis Topic: **Design an Intelligent System for Data Mining Using Association Rules**
- ✓ Area of Study: Knowledge Discovery in Database & Intelligent Data Analysis
- ✓ **Supervisor:** Prof. Dr. Abbas M. Al-Baky

- **Science College, Babylon University, Iraq**

M.Sc., Department of Computer Science, 2003-2006:

- ✓ Thesis Topic: **Designing a Software for Classifying Objects for Air Photos & Satellite Images using Soft Computing.**
- ✓ Area of Study: Soft Computing Techniques (fuzzy set Theory, Neural Network, Evaluation Computation and Probability techniques).
- ✓ **Supervisors:** Prof. Dr. Nabil H.Kagad & Prof. Dr. Twafiq A. Al-Asady

- B.S., Department of Computer Science

- ✓ Project Topic: **Design an expert system for the diagnosis and treatment of Eye diseases**
- ✓ Area of Study: Artificial Intelligence & Artificial Applications,
- ✓ **Supervisor:** Prof. Dr. Nabil H.Kagad

Research Interests

Intelligent Data Analysis, Knowledge Discovery in Database, Soft Computing, Artificial Intelligent & Applications, Data Mining, Predication Techniques, Cooperative Computing (cluster, Grid, Cloud), Internet of things, Network Security ,Mobile Services & applications, Control System and Remote Sensing.

Languages (natural)

Arabic

English

Academic Experience

Institution	Position	Activities	Start_End date
University of Babylon, Iraq	Assistance Professor	Teaching, Research	May 2015/ at yet date
University of Babylon, Iraq	Lecturer	Teaching, Research	2012/ May 2015
University of Babylon, Iraq	Assistant Lecturer	Teaching, Research	March 2006/ 2012
University of Babylon, Iraq	Manager of Internet Center	Programmer & Designer of web locations	2002/ 2003

Taught Materials

- Programming Fundamentals.
- Structure Programming,
- Object Oriented Programming,
- Computer Fundamentals & Principles
- Data Structure,
- Data Mining Techniques
- Computer Graphic,
- Artificial Intelligence,
- Operating System
- Design & Analysis Algorithms
- Data and Computer Security
- Data Communication & Network
- Mobile Fundamentals & Programming
- Web Design and Programming

Technical Skills

- Programming: Python, XML,VB.Net, Java, C, C++,C#, Pascal, Visual Basic 6, HTML, and others
- Applications: Microsoft Office, Lunix, and other common productivity packages Computer maintenance

Publications

Book (3)

- **Samaher Hussein Ali**, "A New Trend of Knowledge Discovery toward Intelligent Data Analysis".2013. ISBN 978-3-659-40188-6. Published
- **Samaher Hussein Ali** , "Design a Software for a classify objects for Air Photos and Satellite Images". 2013. ISBN: 978-3-659-44919-2. Published
- **Samaher Hussein Ali**, "Design an Intelligent Miner for Huge Medical Databases".2016. ISBN:978-3-8484-0345-5. Published

Paper Published

2016 (8)

- **Samaher Al-Janabi**, Cooperative Methodology to Generate a New Scheme for Cryptography, IEEE, the 3rd International Congress on Technology, Communication and Knowledge (ICTCK 2016).
- **Samaher Al-Janabi**, Ibrahim Al-Shourbaji, A Smart and Effective Method for Digital Video Compression, Springer. Sciences of Electronics, Technologies of Information and Telecommunications (SETIT 2016).
- **Samaher Al-Janabi**, Ibrahim Al-Shourbaji, A Hybrid Image steganography Method based on Genetic Algorithm. Springer. Sciences of Electronics, Technologies of Information and Telecommunications (SETIT 2016).
- **Samaher Al-Janabi**, Mahdi Abad Salman, Digital Video Scenes Recognition using Mijm-EA and Learning Vector Quantization Network, *Journal of Babylon University/Pure and Applied Sciences/ No.(9)/ Vol.(24)*, 2016
- **Samaher Al-Janabi**, Ibrahim Al-Shourbaji, Mohammad Shojafar, Shahaboddin Shamshirband, Survey of main challenges (security and privacy) in wireless body area networks for healthcare applications, Elsevier, *Egyptian Informatics Journal*.
- **Samaher Al-Janabi**, Ibrahim Al Shourbaji, "A Study of Cyber Security Awareness in Educational Environment in the Middle East", *JOURNAL OF INFORMATION & KNOWLEDGE MANAGEMENT*. DOI: 10.1142/S0219649216500076

- Shaik Shakeel Ahamad, Ibrahim Al-Shourbaji, **Samaher Al-Janabi**, “A secure NFC mobile payment protocol based on biometrics with formal verification”, *International Journal of Internet Technology and Secured Transactions*.
- Ibrahim AlShourbaji, **Samaher Al-Janabi**, Wan Khairuzzaman Wan Ismail, Sophia Alim, Mohammed Abdelhag, “Online Social Networks in academia: A Review of Applications and Issues” *Second International Engineering Conference On Developments in Civil & Computer Engineering Applications 2016*.

2015 (6)

- **Samaher Al-Janabi**, Sarvesh Rawat, Ahmed Patel, and Ibrahim Al Shourbaji, “Design and Evaluation of a Hybrid System to Detection and Prediction of Faults in Transformer”, *International Journal of Electrical Power and Energy Systems, Elsevier*. doi.org/10.1016/j.ijepes.2014.12.005
- **Samaher Al-Janabi and Hayder Fatlawi**, A Nifty and Accuracy Architecture of New Prediction Model to Improve Predictive Analytics in Healthcare, *European Journal of Scientific Research*, Vol(133), PP(66-85)
- Ahmed Patel, **Samaher Al-Janabi**, Ibrahim Al Shourbaji and Jens Myrup “A Novel Methodology towards a Trusted Environment in Mashup Web Applications”, *journal of Computers & Security, Elsevier*. [doi:10.1016/j.cose.2014.10.009](https://doi.org/10.1016/j.cose.2014.10.009)
- **Samaher Al-Janabi and Hayder Fatlawi**” Integrated Prediction Model for Huge\Big Healthcare Database, *Journal of Babylon university*.
- Ibrahim AlShourbaji, **Samaher Al-Janabi**, Ahmed Patel , Document Selection in a Distributed Search Engine Architecture, *Middle-East Journal of Scientific Research* 23 (7): 1545-1553
- **Samaher Al janabi**, “A Novel Agent-DKGBM Predictor for Business Intelligence and Analytics toward Enterprise Data Discovery”, *Journal of Babylon University/Pure and Applied Sciences/ No.(2)/ Vol.(23): 2015*

2014 (4)

- Ibrahim Al Shourbaji ,Ahmed Patel, and **Samaher Al-Janabi** “ “Enhance Business Promotion for Enterprises with Mashup Technology”, *Middle East Journal of Scientific Research* 12/2014; 22(2):291-299. DOI: 10.5829/idosi.mejsr.2014.22.02.21870
- **Samaher Al-Janabi**, Ahmed Patel, Hayder Fatlawi, Ibrahim AlShourbaji, Kenan Kalajdzic. “Empirical Cloud Computing Models for Exploring the Capabilities of Rapid & Accuracy Predictions in Data Mining Tasks”,*IEEE, First International Conference on Knowledge, Information and Software Engineering (ICKIS 2014)*.
- Kenan Kalajdzic, **Samaher Hussein Ali** and Ahmed Patel, “Rapid Lossless Compression of Short Text Messages”, *journal of Computer Standards & Interfaces, Elsevier 2014*. [doi:10.1016/j.csi.2014.05.005](https://doi.org/10.1016/j.csi.2014.05.005)

- **Samaher Hussein Ali, Ahmed Patel, Ehab Hussein Ali,** " Design and Implementation of a Meta Knowledge System (MKS)" , *First International Scientific conference, Cihan University, Erbil , Kurdistan Region , Iraq, 2014.*

2013 (3)

- **Samaher Hussein Ali,** "Novel Methodology for Generating the Key of Stream Cipher System Using RF of DM Algorithm". *IEEE, the Sixth International Conference on Developments in eSystems Engineering (DeSE 2013).* 2013
- **Samaher Hussein Ali and Ghaidaa Al-sultany,** "Aggregating Similarity Measures based Ontology on Document Retrieval". *Babylon University journal, No 17, Issue 22, No. 8, ISSN: 19920652, 2013.*
- **Samaher Hussein Ali, Hawra S. And Ghaidaa Al-Sultany** "Suggest Clustering Algorithm For Features Analysis Of X-Ray Images". *Journal Of International Academic Research For Multidisciplinary (Jiarm), Issn:2320-5083. India.*

2012 (2)

- **Samaher Hussein Ali,** "A Novel Tool (FP-KC) for Handle the Three Main Dimensions Reduction and Association Rule Mining" *IEEE, in the 6th International Conference: Sciences of Electronic, Technologies of Information and Telecommunications March 21-24, 2012. Page(s): 951 – 961, DOI : 10.1109/SETIT.2012.6482042*
- **Samaher Hussein Ali,** "Miner for OACCR: Case of Medical Data Analysis in Knowledge Discovery". *IEEE, in the 6th International Conference: Sciences of Electronic, Technologies of Information and Telecommunications March 21-24, 2012. Page(s): 962 – 975, DOI : [10.1109/SETIT.2012.6482043](https://doi.org/10.1109/SETIT.2012.6482043)*

2011 (1)

- **Samaher Hussein Ali,** " Handle Black Box Problem of KDD System Through Design Mathematical Models", *USA. The International Conference on Design and Modeling in Science, Education, and Technology (DeMset 2011).*

2010(1)

- **Samaher Hussein Ali and Abbas M. AL-Bakry ,** "Genetic Programming Data Construction Method to Handle Data Scarcity Problem", *International Journal of Advancements in Computing Technology, 2010*

2009 (3)

- **Samaher Hussein Ali,** Design Robotic to Detonation Exothermal Discovery, *Babylon University Journal.*
- **Samaher Hussein Ali ,** Contraction Robots of control systems for different purposes, *Babylon University Journal.2009.*
- **Abbas M., Samaher Hussein Ali,** Verification of ISO in Engineering and Education Using Matrix Structural Analysis and Petri Net, *IEEE ,The 5th International Conference on Networked Computing and Advanced Information Management (NCM2009);*

2008 (6)

- **Abbas M. and Samaher Hussein Ali**, Evolving Neuro-Fuzzy Rule Generation: Survey in Data Mining of Medical Diagnose Framework, IEEE, The 2nd International Conference: E-MEDICAL SYSTEMS (E-Medisys 2008).
- **Samaher Hussein Ali**, **Muhammad M. Al-Yasiry**, Soft Computing Techniques to Extraction Knowledge of Cardiac SPECT Diagnosis, IEEE, The 2nd International Conference: E-MEDICAL SYSTEMS (E-Medisys 2008).
- **Samaher Hussein Ali**, **Eman S. Al-Shamery**, Phonemes Recognition of Speech Using Breeder Genetic Algorithm and Genetic Algorithm, The first scientific conference of college of science; 2008.
- **Sattar B. Sadrkh, Samaher Hussein Ali**, **Ibtisam A. Rasheed**, Design and Implementation Salinity Map of a Specific Area Using Mathematical Equations and Genetic Algorithm, Babylon University Journal, 2008.
- **Samaher Hussein Ali**, Designing a Software for Knowledge Discovery in Database Using Data Mining and Soft Computing Techniques. IEEE, The 2nd International Conference: E-MEDICAL SYSTEMS (E-Medisys 2008), 2008.
- **Tawfiq A. Abbas**, **Samaher Hussein Ali**, **Wafaa H. Al-Marsomi**, Hybrid System to Moving Object Identification in Digital Video Clip, AL-qadisiya University Journal, 2008.

2007 (4)

- **Nabeel H. Kaghad and Samaher Hussein Ali**, Generating Rules from Trained Neural Network using FCM for Satellite Images Classification, IEEE, SETIT 2007, 4rth International Conference: Sciences of Electronic, Technologies of Information and Telecommunications, March 25-29, 2007 – TUNISIA.
- **Tawfiq A. Abbas**, **Samaher Hussein Ali**, **Israa Hadi Ali**, Object Oriented Classification of Forest Images using Soft Computing Approach, IEEE, SETIT 2007, 4rth International Conference: Sciences of Electronic, Technologies of Information and Telecommunications, March 25-29, 2007 – TUNISIA.
- **Mahdi A. and Samaher Hussein Ali**, Knowledge Discovery in Data Mining using Fuzzy C-Means Model and Genetic Programming, IEEE, SETIT 2007, 4rth International Conference: Sciences of Electronic, Technologies of Information and Telecommunications, March 25-29, 2007 – TUNISIA.
- **Samaher Hussein Ali**, Evolving Optimal Bayesian Neural Network Using Breeder Genetic Programming to Acoustic Radar Pattern Identification, Journal of Babylon University, 4 (14), Pages:30-41. 2007. ISSN: 19920652. <http://www.iasj.net/iasj?func=fulltext&aId=38686>

2006 (1)

- **Nabeel H. Kaghad**, **Tawfiq A. Abbas and Samaher Hussein Ali**, " Design and Implementation of classification system for Satellite Image Based on Soft Computing Technique, IEEE, Satellite Workshop: "Remote Sensing: New Trends & applications", Pages:340-436., 2006. DOI: [10.1109/ICTTA.2006.1684408](https://doi.org/10.1109/ICTTA.2006.1684408)

Websites

Scopus ▷ <https://www.scopus.com/authid/detail.uri?authorId=56455184600>

Google Scholar ▷ https://scholar.google.com/citations?user=vH77_w8AAAAJ&hl=en

Research Gate: ▷ https://www.researchgate.net/profile/Samaher_Al-Janabi

Conect.

✉ samaher@uobabylon.edu.iq

✉ samaher@itnet.uobabylon.edu.iq

✉ dr.samaher.hussein@gmail.com