

Dr. Shadi AL SHEHABI

Assistant Professor

Qualifications

2006 Ph.D. in Computer Science (Artificial Intelligence) – University of Henry Poincaré – Nancy 1 – France.

Thesis Topic: Unsupervised cartographical neural networks models for managing multimedia documentary data: application to web analysis.

2002 MSc. in Computer Science – University of Henry Poincaré – Nancy 1 – France.

1997 B.Sc. in Mathematics/Computer Science – Faculty of Science – University of Aleppo.

Academic Experiences:

2014 – now ▪ Assistant professor – Department of Computer Engineering – University of Turkish Aeronautical Association – Ankara – Turkey

2006 – 2013 ▪ Assistant professor– Faculty of Science – University of Aleppo – Syria.
 ▪ Assistant professor – Faculty of Informatics – University of Aleppo – Syria.
 ▪ Assistant professor (part-time) – Faculty of Engineering and Technology – Mamoun’s University – Aleppo – Syria

2008 – 2012 ▪ Assistant professor (part-time) – Faculty of Science – University of Alforat – Syria.

1998 – 2000 ▪ Lecturer Assistant, Department of Computer Science – Faculty of Science – University of Aleppo – Syria.

Teaching Courses

- Machine Learning
- Artificial intelligence
- Data mining
- Information retrieval
- Data Analysis
- Compilers
- Database systems
- Algorithms and data structures
- Programming in Java
- Programming in C++
- Theory of computation
- Statistical computing
- Statistical programs (applied statistics using SPSS and Matlab)
- Computer applications in management (using SPSS and excel)
- Computer skills

Academic Activities

Reviewer, Turkish Journal of Electrical Engineering & Computer Sciences, 2017.

Previous supervised theses

Ph.D. Theses

- Intelligent generalization and communication mechanisms for unsupervised neural networks to processing documents (2011) – Aleppo – Syria
- Improving the Role of Management Information Systems and their Effectiveness in Achieving the Security and Reliability, and Decision Making in the Light of Electronic (2013) – Aleppo – Syria

MSc. Theses

- Gözetimsiz makine öğrenim teknikleri ile miktara dayalı negatif birliktelik kural madenciliği (2018) – Turkish Aeronautical Association University – Ankara – Turkey.
- Management and Assessment System for Network Attacks Based on Data Mining Techniques (2018) – Turkish Aeronautical Association University – Ankara – Turkey.
- Improving Posting Lists Intersection with Skip Pointers (2018) – Turkish Aeronautical Association University – Ankara – Turkey.
- Optimization of Density Based Hierarchical Clustering Algorithm (2017) – Turkish Aeronautical Association University – Ankara – Turkey.
- Parameters Tuning for Growing Neural Gas Algorithm (2017) – Turkish Aeronautical Association University – Ankara – Turkey.
- Modified k-nearest neighbor classifiers for dealing with secure encrypted data (2017) – Turkish Aeronautical Association University – Ankara – Turkey.
- Application of Main Gain Ratio (MGR) Model for the clustering of Electrical Generator Failures (2017) – Turkish Aeronautical Association University – Ankara – Turkey
- Short Term Electricity Load Forecasting Based on The Optimal Architecture of Hybrid Neural Network Model (2017) – Turkish Aeronautical Association University – Ankara – Turkey
- Mining Complex Association Rules Based on Inter-Cluster Communication (2017) – Turkish Aeronautical Association University – Ankara – Turkey.
- Designing a Smart Safety Management System for Smart Cities (2016) – Turkish Aeronautical Association University – Ankara – Turkey.
- Mining association rules from clustering models (2015) – Çankaya University – Ankara – Turkey.
- Applying IPv6 dynamic routing protocol on a campus environment (2015) – Turkish Aeronautical Association University – Ankara – Turkey.
- Developing of Data Mining Techniques for Prediction Tasks (2012) – Aleppo – Syria.
- Information retrieval from databases using artificial intelligence techniques: fuzzy logic (2009) – Aleppo – Syria.
- The ultimate improvement of the application of electronic government in the ministry of higher education: sample document (2010) – Aleppo – Syria.

Research Experience

- Machine Learning
- Artificial Intelligence
- Artificial Neural Networks
- Data Mining
- Information Retrieval

Publications

Journal Publications:

- Saddam Raheem, Shadi Al Shehabi, amaal M. Nassief, **MIGR: Categorical data clustering algorithm based on information gain in rough set theory** (2018). (Under review)
- Zahraa Mohammed Malik MALIK, Shadi AL-SHEHABI, Tansel Dokeroglu. **Gözetimsiz Makine öğrenme Teknikleri ile Miktara Dayalı Negatif Birliktelik Kural Madenciliği**. Duzce Universitesi Bilim ve Teknoloji Dergisi (2018).
- Firas Ahmed and Shadi Al Shehabi, **Short Term Load Forecasting Based on an Optimized Architecture of Hybrid Neural Network Model**. International Journal of Innovations in Engineering and Technology (IJIET) (2017).

- Ahmad Tayyar, Shadi Al Shehabi, Majida Albakoor. **ER7ST-algorithm for extracting facial expressions**. International Arab Journal of Information Technology. 13(3): 320-326 (2016).
- Shadi Al Shehabi and Jean-Charles Lamirel. **Evaluation of collaboration between European universities using dynamic interaction between multiple sources**. Journal of Information Management and Scientometrics (JIMS) 1(3) (2006).
- Jean-Charles Lamirel, Shadi Al Shehabi, Claire François, Xavier Polanco. **Using a compound approach based on elaborated neural network for Webometrics : an example issued from the EICSTES Project**. Scientometrics International Journal, Vol. 61, No. 3 427-441(2004).
- Jean-Charles Lamirel, Claire Francois, Shadi Al Shehabi and Martial Hoffmann. **New classification quality estimators for analysis of documentary information: application to patent analysis and wep mapping**. Scientometrics international Journal, Vol. 60, No. 3 445-462 (2004).
- Claire François, Jean-Charles Lamirel, Shadi Al Shehabi. **Combining Advanced Visualization and Automatized Reasoning for Webometrics: A Test Study**. CoRR abs/0810.5057 (2008).

Conference publications:

2018

- Shadi Al Shehabi, Ali Al-Jibouri, Jean-Charles Lamirel. **Clustering models for mining association rules from numerical datasets**. International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 18)
- Zahraa Ahmed, Meltem İmamoğlu, Shadi Al Shehabi. **Enhanced Density Based Hierarchical Clustering Algorithm for Pattern Recognition**. International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT 2018) 125-128.

2015

- Jean-Charles Lamirel, Shadi Al Shehabi. **Feature Maximization Based Clustering Quality Evaluation: A Promising Approach**. PAKDD Workshops 2015: 210-222

2011

- Jean-Charles Lamirel, Raghvendra Mall, Shadi Al Shehabi, Ghada Safi: **A New Label Maximization Based Incremental Neural Clustering Approach: Application to Text Clustering**. WSOM 2011.

2007

- Jean-Charles Lamirel, Shadi Al Shehabi: **An Extended Neural Gas Model for Efficient Data Mining Tasks**. FLAIRS Conference 2007.

2006

- Shadi Al Shehabi and Jean-charles Lamirel. **A new hyperbolic visualization method for displaying the results of a neural gas model: application to Webometrics**. In proceeding of the 13th European Symposium on Artificial Neural Networks (ESANN 2006), pages 351-356, Bruges, Belgium, April 2006.
- Mohammed Attik, Shadi Al Shehabi, Jean-charles Lamirel. **Clustering Analysis for Data Samples with Multiple Labels**. In IASTED international Conference of Databases and Applications, DBA 2006.
- Mohammed Attik, Shadi Al Shehabi, Jean-charles Lamirel. **Clustering Quality Measures for Data Samples with Multiple Labels**. In IASTED international Conference of Databases and Applications, DBA 2006.
- Nicolas Carrez, Jean-Charles Lamirel, Shadi Al Shehabi. **Extracting Informative Rules from High Dimensional Data Using a Numerical Approach**. ICDM Workshops 2006: 453-457

2005

- Shadi Al Shehabi and Jean-charles Lamirel. **Knowledge Extraction from Unsupervised Multi-topographic Neural Network Models**. ICANN (2), 2005, p.479-484.
- Jean-charles Lamirel and Shadi Al Shehabi. **Efficient Knowledge Extraction from Unsupervised Multi-topographic Neural Network Models**. 5th Workshop on Self-Organizing Maps, WSOM 2005, Paris 1 Panthéon-Sorbonne University, p.291-298.
- Shadi Al Shehabi and Jean-charles Lamirel. **Multi-Topographic Neural Network Communication and Generalization for Multi-Viewpoint Analysis**. Proceeding of the IEEE International Joint Conference on Neural Networks, IJCNN 2005, Montreal, Canada, IEEE Computer Societ.

2004

- Shadi Al Shehabi, Jean-Charles Lamirel. **Inference Bayesian Network for Multi-topographic neural network communication: a case study in documentary data**. ICTTA 2004, Damascus, Syria, April 2004, IEEE.
- Shadi Al Shehabi, Jean-Charles Lamirel. **Unsupervised neural network of topographic and gas families for documentary data classification**. SCI 2004, Florida, USA.
- Claire François, Marianne Hoerlesberger, Shadi Al Shehabi, Jean-Charles Lamirel. **Visualization of Web data : Complementarities between a graph and a multi-maps approach**. S&T 2004, Leiden.
- Jean-Charles Lamirel, Shadi Al Shehabi, Claire François, Xavier Polanco. **Using a compound approach based on elaborated neural network for Webometrics : an example issued from the EICSTES Project**. Scientometrics International Journal, Vol. 61, No. 3 (2004) 427-441.
- Jean-Charles Lamirel, Claire Francois, Shadi Al Shehabi and Martial Hoffmann. **New classification quality estimators for analysis of documentary information: application to patent analysis and wep mapping**. . Scientometrics international Journal, Vol. 60, No. 3 (2004) 445-462.

2003

- Jean-Charles Lamirel, Yannick Toussaint, Shadi Al Shehabi. **A Hybrid Classification Method for Database Contents Analysis**. FLAIRS Conference 2003: 286-292.
- J.C. Lamirel, C. Francois, S. Al Shehabi and M. Hoffmann. **Intelligent patent analysis through the use of a neural network: experiment of multi-viewpoint analysis with the MultiSOM model**. Proceeding of ACL 2003, Sapporo, Japan, July 2003.