Hima **Nikafshan Rad**

NETWORK SECURITY · CLOUD COMPUTING · PREDICTION MODELS · INFRASTRUCTURE SECURITY · MACHINE LEARNING · TIME SERIES ANALYSIS

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"Make the change that you want to see in the world."

Education

Tabari University(Tabari Institute of Higher Education)   *Mazandaran,Iran*

M.S. IN COMPUTER SCIENCE   *Sep. 2011 - Sep.2013*

- Overall GPA: 18.15/20(4/4)
- Thesis Topic: Modeling and Evaluation of Virtual Data Center in Cloud Computing Using Petri net
- Supervisor: Dr. Homayun Motameni
- Advisor: Dr. Hossein Nematzadeh
- Transcript Excerpt: Computer System(19.50), Theory of Computer Science(18), Theory of System Design(17.70), Advanced Artificial Intelligence(17.50)

Khayyam University(khayyam Institute of Higher Education)   *Mashhad,Iran*

B.S. IN APPLIED MATHEMATICS   *Sep. 2006 - Sep.2010*

- Overall GPA: 14.60/20 (2.99/4)
- GPA of last two years(Credits:72): 15.49/20 (3.27/4)
- GPA of last year(Credits:32): 17.18/20 (3.76/4)
- Transcript Excerpt: Algorithm Design(17.75), Compute Architecture(19.25), Discrete Mathematics(20), Stochastic Process(18), Graph theory(16), Programming(19), Statistic and Probability(19.50)

Skills

Programming	Matlab, Python, R, C/C++, LaTeX
Operating System	Linux(ubuntu), Windows
Software	Weka, Rapidminer, Network Simulator (NS2), CPN tools
Web	PHP, HTML5, CSS, JavaScript
Languages	Persian, English, Germany(Basic)
Data Base	Sql Server, MangoDB, My Sql

Experience

Daneshyar-e Elm-o Amal Arvin Co   *Mashhad, Iran*

CO-OWNER   *Jul. 2016 - Present*

She is co-owner and engineer in Daneshyar-e Elm-o Amal Arvin Co, a company that goals are designing and implementing computer network security for support and durability of under web service, performing administrative, industrial and accounting automation projects, rendering consultation for making business smart and analyzing the warehouse data of chain and hyper stores in order to profitability and increase the customer satisfaction, rendering consultation in the field of information technology, data analysis, monitoring, and identifying the loyal customers in order to provide them with more services, rendering consultation for improvement of the safety of data centers of the organization and increasing their performance as well as preventing inaccessibility of the data; and executive support in programming projects.

Danesh Gostar Pargar Co.   *Tehran, Iran*

SOFTWARE ENGINEER & RESEARCHER   *Jan. 2014 - Present*

She is researcher for Pargar Danesh Gostar Co, a company that conducts research in various fields of engineering and technology. In those roles, she is focused on software engineering, artificial intelligence and distributed system research projects. Also, she is mentoring undergraduate and graduate students to complete modeling and data mining projects with some of professional softwares and teaching courses such as Machine Learning, Data Mining, Formal Method and Statistical Modeling Methods to graduate.

Presentation

Master of Science thesis with the top grade (19/20)   *Babol, Iran*

Talk on Modeling and Evaluation of Virtual Data Center in Cloud Computing Using Petri net   *May. 2013*

Master of Science Seminar course with the top grade (20/20)   *Babol, Iran*

Talk on Cloud Computing Security Challenging   *2012*

International Conference on Nonlinear Modeling and Optimization(ICNMO 2012)   *Amol, Iran*

Talk on modeling the security of virtual machines in the cloud based on Formal method   *Sep. 2012*

Journal Publication

Prediction of rock mass rating system based on continuous functions using Chaos–ANFIS model   *Elsevier Publisher*

Published   *Oct. 2013 - Jul. 2014*

Hima Nikafshan Rad, Zakaria Jalali, and Hossein Jalalifar. "Prediction of rock mass rating system based on continuous functions using Chaos–ANFIS model." International Journal of Rock Mechanics and Mining Sciences 73 (2015): 1-9.

A new developed approach for the prediction of ground vibration using a hybrid PSO optimized ANFIS-based model   *Springer Publisher*

Published   *Feb. 2017 - Jun. 2017*

Shahnazar, Azam, Hima Nikafshan Rad, Mahdi Hasanipanah, M. M. Tahir, Danial Jahed Armaghani, and Mahyar Ghoroqi. "A new developed approach for the prediction of ground vibration using a hybrid PSO-optimized ANFIS-based model." Environmental Earth Sciences 76, no. 15 (2017): 527.

The potential application of particle swarm optimization algorithm for forecasting the air-overpressure induced by mine blasting   *Springer Publisher*

Accepted   *Apr. 2017 - Jun. 2017*

Journal of Engineering with Computers

Knowledge discovery approach for improving rock mass rating system based on continuous rating   *Elsevier Publisher*

In Progress   *Oct. 2014 - Sep. 2016*

Formal Specification and Verification of Security in Cloud Computing using Colored Petri Nets and Process Algebra   *IEEE Publisher*

In Progress   *Jan. 2016 - Jun. 2017*

IEEE Transactions on Information Forensics and Security

Prediction Slope Mass Rating based on continuous functions using development recurrent fuzzy neural networks   *Springer Publisher*

In Progress   *Jan. 2016 - Aug. 2016*

development of Predictive FlyRock model using Least Square Support Vector Machine   *Springer Publisher*

In Progress   *Jan. 2017 - July. 2017*

Conference Publication

Modeling the security of virtual machines in the cloud using Petri net(Persian) *Amol, Iran*

INTERNATIONAL CONFERENCE ON NONLINEAR MODELING AND OPTIMIZATION(ICNMO 2012) *2012*

Writers: Hima Nikafshan Rad and Hesam Omranpur and Homayun Motameni

Reduce Data Anomalies Using Manifold Learning *Birjand, Iran*

2013 FIRST IRANIAN CONFERENCE ON PATTERN RECOGNITION AND IMAGE ANALYSIS (PRIA) *2013*

Writers: Hima Nikafshan Rad and Homayun Motameni

Modeling and Evaluation of prediction security on risk management cycle, public safety and health using stochastic Petri net(Case Study: Tehran metros site)(Persian) *Babol, Iran*

8TH NATIONAL CONGRESS ON CIVIL ENGINEERIN(NCCE08) *2014*

Writers: Gholamreza Abdolah-Zade, Rosa vosughi-kia, Hima Nikafshan Rad and Kaveh Vaziri

Estimate geomechanical rock mass classification system (RMRb) based on continuous rating using ANFIS-FCM(Persian) *Tehran, Iran*

05TH IRANIAN MINING ENGINEERING CONFERENCE *2014*

Writers: Hima Nikafshan Rad and Zakaria jalali

Working Papers

The prediction of ground vibration using a hybrid PSO-optimized Gaussian processes regression model *Elsevier Publisher*

WRITING AND ANALYZING *Jul. 2017 - present*

Activities and Societies

2013-2016 **Consistent membership**, iranian society of machine vision and image processing(ismvip) *Tehran, iran*

2017-Now **Active membership**, Young Researchers and Elite Club *Mashhad, iran*

References

1 **Homayun Motameni**, Faculty Computer Science in Tabari University, **Motameni [at] iausari.ac.ir** *Iran*

3 **Reza Shahverdi**, Islamic Azad University(Qaemshahr Branch) **shahverdi_592003[at] yahoo.com** *Iran*

4 **Seyyed Hamed Mahdioun**, CEO of Danesh Gostar Pargar Company, **h.mahdioun[at]daneshgostarpargar.org.ir** *Iran*