VAHID SEYDI

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RESEARCH INTEREST

Bayesian Optimization

Model	Application
Black-box optimization	Hyper-parameter optimization
Multi-objective Black-box optimization	few-shot Learning
Meta-Learning	Transfer learning
Gaussian Process	

Deep Learning

Model	Application
Deep Generative Models(GAN & VAE)	NLP & Text mining
CNN and RNN(GRU,LSTM) based models	Predictive Maintenance
Bayesian Deep Learning	Anomaly detection
Attention Mechanism	Time Series Forecasting
Supervised & Unsupervised deep models	Machine Vision and Audio(speech) Processing
	Health Care

Reinforcement Learning

Model	Application
Deep Reinforcement Learning	Autonomous Agent
Adversarial Learning	Continuous Control Systems
Actor-Critic Model	Trust Region Optimization(Sentences Generation)
Q-Learning & Deep Q-Network	

Probabilistic models and latent factor analysis

Model	Application
Clustering & Retrieval	Topic Model(LDA)
Matrix Factorization(PMF, NMF,...)	Recommender Systems
Mixture Models	Graph Data(Social Network) Analysis
Explainable Machine Learning(Bayes Net)	Community Detection
	Dimension Reduction

EDUCATION

School of Artificial Intelligence April 2019 – June 2019

Pi School, Pi Campus, Rome, Italy
(one of 20 merit-based full scholarships)

Thesis:	Predicting failures in medium voltage lines from sequence of SCADA events. (Sponsored By enel)
Concentrations:	Deep Learning, categorical time series prediction, anomaly detection(supervised and unsupervised), generative models, embedding methods.
Mentors:	**Sébastien Bratières** from university of Cambridge and director of AI in Translated; & **Francesco Mosconi**, CEO and Chief Data Scientist at CATALIT, San Francisco, California.
Alumni:	I am included as the AI program Alumni. https://picampus-school.com/about-us/

Ph.D. in Artificial intelligence September 2007 – February 2014

Azad University, Science and Research Branch, Tehran Iran

Thesis:	jobs interaction theory to train hyper-parameters of the cultural optimization algorithm.
Concentrations:	cultural optimization algorithm, neural network, multi-agent system, derivative-free learning algorithm, feature extraction.
Advisors:	professor **Mohammad Teshnehlab**.
GPA:	18.79 / 20.00

M.Sc in Artificial intelligence September 2005 – September 2007

Azad University, Science and Research Branch, Tehran Iran

Thesis:	multi-objective optimization to train neural networks and neuro-fuzzy systems.
Concentrations:	multi-objective optimization, neural network and fuzzy system, combination of both derivative-base and derivative-free learning algorithms to prevent vanishing and exploding of gradient, and overfitting.
Advisors:	professor **Mohammad Teshnehlab**.
GPA:	18.08 / 20.00

B.Sc. in Computer Software Engineering September 2001 – July 2005

Azad University, Iran

Thesis:	implementation of an automation system for the dairy industry.
Concentrations:	RUP methodology,data base management, SQL, object oriented programing, designing algorithm, data structure, Java, Visual C++.
GPA:	18.36 / 20.00

PUBLICATIONS()

2015

2015

2014

2010

2008

2007

2007

2007

2006

2006

Under Review Publications:

2019 Sentiment Analysis based on Deep Learning Methods : A survey

2019 Diagnosis of Atrial Fibrillation with Deep Auto-Encoder and LGBM

2019 Multi-Source Domain Adaptation via Low Rank and Sparse Representation

2018 Community Detection in weighted Networks using BIGCLAM Algorithm

2018 Trustworthy Recommender Systems based on prevention of fake identities influence

2018 Using users' reviews to improve the performance of Matrix Factorization in Recommender Systems

2018 An inverse model-based multi-objective EDA using Random-Forest variable importance methods

WORK EXPERIENCES

Machine Learning Expert and Data Scientist   APR 2019 – JUN 2019

Pi Campus, (Rome, Italy)

My proposal has been transforming it into the text anomaly detection problem. So I've worked on custom embedding method and deep neural network architectures.

Head of Department of AI   OCT 2017 – APR 2019

Azad University,South Tehran Branch, (Tehran, Iran)

Develop and sustain appropriate structures for management, consultation, decision-making and communication with staff and students; Relationship with industry in order to obtain a research project; Ensure the highest levels of quality, integrity and ethics in all research undertaken; Deciding on which courses should be teaching in each semester and assign them to the teachers in line with faculty and university strategic plans and direction.

Assistant professor in AI Department   FEB 2014 – PRESENT

Azad University, South Tehran Branch, (Tehran, Iran)

As a faculty member of the AI department, I develop new research projects, and cooperate in existing research projects, supervise PhD and MSc students research, and teach 14 hours per week. my activity area has been machine learning, deep learning, text mining, mining of massive data and probabilistic models.

Lecturer in Computer Eng. Department   OCT 2010 – FEB 2014

Azad University, South Tehran Branch, (Tehran, Iran)

I have been teaching some of computer engineering courses including algorithm concepts, object-oriented programming, data structures, database management(SQL) and software methodology(RUP, Agile) to the bachelor students in the department of computer software engineering. Also, I've been supervising some of software development projects.

Research Fellowship   OCT 2007 – JUN 2010

KNTU, ISLAB (Tehran, Iran)

I had been awarded two research fellowship from the Intelligence System Laboratory, KNTU, Tehran, Iran. The first research project was how to hybrid optimization algorithm to training fuzzy neural networks from 2007 till 2008. The second research project was investigating multi-objective optimization methods(2008-2010). professor Mohammad Teshnehlab led projects.

COURSES TAUGHT

PhD and master's degree :   2014-present

- Machine Learning

- Deep Learning

- Natural Language Processing

- Speech Processing

- Mining of Massive Data Sets

- Advanced Artificial Intelligence (Reinforcement learning and PGM)

Bachelor's degree : 2010-present

- Artificial Intelligence(Search, CSP, Adversarial Search, Logic Programming)

- Foundation of Programming(C / Python)

- Object-Oriented Programming(Java)

- formal language and automata theory

TECHNICAL SKILLS

Programming Languages:	Python, Java, C, C++, MATLAB, R, ProLog.
Python Stack:	PyTorch, Keras, TensorFlow, Gensim, NLTK, NumPy, Pandas, SiKit-Learn, SciPy, Scrapy, Matplotlib, Seaborn, ...
Databases Management:	SQL
Writing:	LaTeX, Microsoft Office, Markdown, HTML
Others:	AWS cloud platform, Git, GitHub, Software Development, RUP, Agile.

HONORS & OTHER ACHIEVEMENTS

merit-based scholarship form school of AI, Rome, Italy 2019

Pi Campus, Rome, Italy

Silver medal on Kaggle Competitions 2017

[Zillow's Home Value Prediction](), Seattle, USA
I have achieved the rank of 71 among 3779 teams (top 2%) and got one silver medal.

Excellence in Teaching Award 2014 − 2019

Azad University, Tehran, Iran
I have got more than 18 / 20 teacher assessment score in university teacher assessment system for every semester.

Ph.D. scholarship 2010

Azad University, South Tehran Branch, Tehran, Iran

Research Fellowship 2008

KNTU, Intelligence System Lab, Tehran, Iran
Multi-Objective Optimization

Research Fellowship 2007

KNTU, Intelligence System Lab, Tehran, Iran
hybrid optimization methods to train neural network and fuzzy systems

Top Rank Graduated Student in B. Sc. 2005

Azad University, Iran

REFERENCES

Dr. Mojtaba Ahmadieh khanesar
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Dr. Sébastien Bratières
Director of Artificial Intelligence at Translated, Pi Campus, Rome, Italy, and member of the Machine Learning group of the Cambridge University Engineering Department.
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Dr. Peyman Sheikholharam Mashhadi
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