

MOSTAPHA KALAMI HERIS

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EXPERIENCE

Co-founder and CEO | FaraDars Online Education Organization

Dec. 2008 – Now

FaraDars (faradars.org) is the greatest online education and e-learning platform in Iran, and as of May 2018 has published more than 7,100 hours (780 titles) of video courses, cooperating with more than 500 instructors; and provided education services for more than 175,000 students inside and outside of Iran, including students from Afghanistan, Iraq and Iranian students living outside. *Mostapha Kalami Heris* and *Esmael Atashpaz Gargari* co-founded the FaraDars as an educational startup company in 2008, and the company has 67 employees as of May 2018. Since its foundation up to March 2018, the company has not had any investors and shareholders other than co-founders, and at least in the Iranian ecosystem of startups and entrepreneurship, this is very rare for a company to grow up without external investment and to be dependent only to its own revenue and resources.

Activities:

- General Management and Business Development
- Marketing and Content Strategies
- Server and Website Administration
- Web Development and Technical Management
- Course Instruction and Video Content Creation
- Hiring and HR Development
- and as a co-founder, everything the company needed and it is not doable by others

Co-founder and Machine Learning Engineer | Kaprila Digital Marketing Agency

Feb. 2016 – Now

Kaprila (kaprila.com) is a digital marketing company, which uses Machine Learning, Text Mining and Artificial Intelligence to show online advertisements in native and banner formats. The system is sensitive to the content of the ad-containing page and previous behavior of the user. As of May 2018, Kaprila has about 2.5 billion monthly impressions, more than 2,000 ad-units, and more than 300 websites in its publisher network. This was originally created as a part of FaraDars, to overcome the marketing problems. However, it became an independent company, which serves FaraDars and other advertisers as well. Also on the FaraDars website (as a publisher), Kaprila is being used as a recommender system and this could be another line of activity for the company.

Activities:

- Algorithm Design and Improvement
- Implementation of the Algorithm using PHP
- Creation of the Native Ad Rendering Engine and Web Application

- Marketing and Development Strategies

Course Instructor | FaraDars Online Education Organization

Dec. 2008 – Now

Activities:

- Instructed more than 70 video courses (more than 1,000 hours) in FaraDars
 - **More than 100,000 enrollments** by FaraDars students
- Some of Topics and Courses:
 - MATLAB Programming (Beginner to Advanced)
 - Evolutionary Computation and Metaheuristics (incl. GA, PSO, DE, ACO, CMA-ES, etc.)
 - Neural Networks (incl. MLP, RBF, SOM, SVM, GNG, GMDH, LVQ, etc.)
 - Clustering (incl. k-Means, DBSCAN, Fuzzy Clustering, Evolutionary Clustering, etc.)
 - Practical Data Mining using MATLAB
 - Control System Design using MATLAB (incl. Classic and Intelligent Control Systems)
 - Fuzzy Logic and Fuzzy Control Systems
 - Constrained Optimization Techniques (incl. theory and applications in MATLAB)
 - Multi-objective Optimization (incl. NSGA-II, MOPSO, SPEA2, MOEA/D, etc.)

Founder | Yarpiz

Sep. 2016 – Now

Yarpiz (yarpiz.com), as a personal project, provides implementation of various AI-related methods and algorithms, including Evolutionary Algorithms, Neural Networks, Fuzzy Systems and Multi-Objective Optimization Algorithms. It is planned to publish an open-source general-purpose software library and framework on Yarpiz, implemented in MATLAB and Python, to deal with various kinds of optimization and operational research problems.

Activities:

- Contributing more than 50 submissions to MATLAB File Exchange (FEX)
 - Yarpiz profile is **ranked 16th** among more than 13,300 authors of FEX
- As a test, a video tutorial on Particle Swarm Optimization is published on Yarpiz.
 - Total views on YouTube channel of Yarpiz is more than 70,000 times.
 - The course is published on Udemy and it had **more than 7,200 enrollments** by May 2018, from **128 countries** around the world. The average rating is 4.5.

Software Developer | Freelancer

Feb. 2005 – Dec. 2008

Activities:

- Implementation of software systems and desktop applications using:
 - Microsoft Visual C#
 - Microsoft Visual Basic .NET
 - MATLAB
 - C/C++
 - Java

Software Developer | GostarPajouh Ltd. Co.

Sep. 2003 – Feb. 2005

Activities:

- Implementation of LPCC software system (interacting with hardware) using Visual Basic .NET



EDUCATION

Doctor of Philosophy (PhD) | K. N. Toosi University of Technology, Tehran, Iran

Electrical Engineering, Systems and Control

Sep. 2008 – Feb. 2014

Thesis Title: Estimation of Distribution Evolutionary Filters – A Novel Approach for Filtering

Research Areas: Filtering and State Estimation, Evolutionary Computation, Estimation of Distribution Algorithms (EDAs), Multi-Objective Optimization and Machine Learning

Master of Science (MSc) | Ferdowsi University of Mashhad, Mashhad, Iran

Electrical Engineering, Systems and Control

Sep. 2006 – Sep. 2008

Thesis Title: Analysis of Reinforcement Learning in Markovian Environments as Discrete-Time Dynamics

Research Areas: Machine Learning, Reinforcement Learning and Evolutionary Computation

Bachelor of Science (BSc) | University of Tabriz, Tabriz, Iran

Electrical Engineering, Systems and Control

Sep. 2001 – Sep. 2006

Thesis Title: Identification of Linear Time-Invariant Systems using Nichols Chart Data

Research Areas: LTI Dynamical Systems, System Identification and Evolutionary Computation



HONORS

- *2nd Rank of PhD Entrance Exam*, K. N. Toosi University of Technology, May 2008
- *1st Rank of Khwarizmi Youth Award*, Mathematics Branch, Nov. 2000
 - Presented *Structural Mathematics*, including generalizations of mathematical concepts like analysis of multiplicative periodic functions, Fourier and Laplace analysis, and multi-valued numbers.
- *2nd Rank of Khwarizmi Youth Award*, Mathematics Branch, Nov. 1999
 - Presented *Complete Numbers*, generalizing the 2-dimensional complex numbers into 3-dimensional space, and definition of operators in this new set of numbers.
- *Elite Student* of Eastern Azerbaijan province, Sep. 2001



SKILLS

- Machine Learning and Artificial Intelligence theories and applications
- Applied Numerical Optimization (Constrained, Single-Objective and Multi-Objective)
- Mathematical Modeling, Estimation and Forecasting
- Software Development and Computer Programming
 - Fully familiar with OOP, Design Patterns, general web application structure and MVC

- Linux System Administration (specially CentOS and Debian)
- Database Management (MySQL, MariaDB and MongoDB)
- TeX and LaTeX Typesetting
- Advanced Use of Microsoft Office (Word, PowerPoint, and Excel)



NATURAL LANGUAGES

- **English:** Professional Working Proficiency
- **Azeri:** Mother Tongue
- **Persian:** Native Speaker
- **Turkish:** Perfect



PROGRAMMING LANGUAGES

- **MATLAB:** Professional
- **Python:** Advanced
- **C#:** Advanced
- **PHP:** Advanced (*pure PHP, Laravel and CakePHP 3.0*)
- **HTML/CSS:** Advanced
- **C/C++:** Intermediate
- **Java:** Intermediate
- **JavaScript:** Intermediate
- **Visual Basic:** Intermediate



PUBLICATIONS

Books and Book Chapters

- Reza Tavakkoli-Moghaddam, S. Mostapha Kalami Heris, Narges Nowrouzi, Alireza Salamatbakhsh, *Metaheuristics: Theory and Implementation in MATLAB*, Publications of Islamic Azad University, Southern Tehran Branch, 2013.
- S. Mostapha Kalami Heris, Mohammad-bagher Naghibi Sistani and Naser Pariz, "Using Control Theory for Analysis of Reinforcement Learning and Optimal Policy Properties in Grid-world Problems," in: D. S. Huang et al. (Eds.), *Emerging Intelligent Computing Technology and Applications with Aspects of Artificial Intelligence*, Springer, 2009.

Journal Papers

- A. Ghodratinama, R. Tavakkoli-Moghaddam, S. Mostapha Kalami Heris, G. Nagy, "Solving a novel multi-objective uncapacitated hub location problem by five meta-heuristics", *Journal of Intelligent & Fuzzy Systems*, IOS Press, pp. 1-13, 2015.
- S. Mostapha Kalami Heris and Hamid Khaloozadeh, "Ant Colony Estimator: An intelligent particle filter based on ACOR", *Engineering Applications of Artificial Intelligence*, vol. 28, pp. 78-85, 2014.
- M. Shaygan, A. Alimohammadi, A. Mansourian, Z. S. Govara, and S. Mostapha Kalami Heris, "Spatial Multi-Objective Optimization Approach for Land Use Allocation Using NSGA-II", *Selected Topics in Applied Earth Observations and Remote Sensing, IEEE Journal of*, vol.7, no.3, pp. 906-916, 2014.
- S. Mostapha Kalami Heris and Hamid Khaloozadeh, "Open- and Closed-Loop Multiobjective Optimal Strategies for HIV Therapy Using NSGA-II", *Biomedical Engineering, IEEE Transactions on*, vol. 58, no. 6, pp. 1678-1685, 2011.

- S. Mostapha Kalami, Naser Pariz and Mohammad-Bagher Naghibi Sistani, "Analysis of Reinforcement Learning and optimal policy properties in Grid-world problems: A Discrete-time Control Approach," in *Iranian Journal of Control*, Vol. 3, No. 1, 2009.

Conference Papers

- S. Mostapha Kalami Heris and Hamid Khaloozadeh, "Covariance Matrix Adaptation Particle Filter", in *Proceedings of 12th Iranian Conference on Intelligent Systems, ICIS'2014*, Bam, 2014.
- S. Mostapha Kalami Heris and Hamid Khaloozadeh, "Non-dominated Sorting Genetic Filter", in *Proceedings of 12th Iranian Conference on Intelligent Systems, ICIS'2014*, Bam, 2014.
- S. Mostapha Kalami Heris and Hamid Khaloozadeh, "Multi-objective Optimal Therapy of HIV Infection based on a New Model of Infection", in *Proceedings of 12th Iranian Conference on Intelligent Systems, ICIS'2014*, Bam, 2014.
- S. Mostapha Kalami and Hamid Khaloozadeh, "Analysis of Gambling Problem using methods of Reinforcement Learning and Discrete-Time Dynamical systems," in *Proceedings of 15th Computer Conference of Computer Society of Iran*, 2010.
- S. Mostapha Kalami and Hamid Khaloozadeh, "Analysis of the Optimal Treatment Methods of AIDS using Non-Dominated Sorting Genetic Algorithm II (NSGA-II)," in *Proceedings of International Conference of Control, Instrumentation and Automation*, 2010.
- S. Mostapha Kalami, S. Moosa Ayati and Hamid Khaloozadeh, "Optimal Pattern for treatment and control the AIDS using Genetic Algorithm," in *Proceedings of 3rd Joint Congress on Fuzzy and Intelligent Systems*, 2009.
- S. Mostapha Kalami, S. Moosa Ayati and Hamid Khaloozadeh, "Optimal Control of the AIDS using Binary Genetic Algorithm," in *Proceedings of 6th National Congress on Biotechnology of Iran*, 2009.
- S. Mostapha Kalami Heris, "H ∞ Control of Active Suspension using Particle Swarm Optimization," in *Proceedings of 2nd Annual International Conference on Automotive Electronics Industry*, 2009.
- Masoumeh Atashpaz Gargari and S. Mostapha Kalami, "Approximation of the Electronegativity of Periodic Table Elements using Particle Swarm Optimization," in *Proceedings of 12th Iranian Students Conference on Electrical Engineering*, 2009.
- S. Mostapha Kalami and Hamid Khaloozadeh, "Optimization of the AIDS Treatment and Representing a Novel Combined Dynamic Model of the Infection," in *Proceedings of 2nd Congress on Applications of Mathematics and Control Theory in Medicine*, 2009.
- S. Mostapha Kalami Heris and Mohammad-Bagher Naghibi Sistani, "Study of relation between lifetime of controller and optimal decision making in MABP using Reinforcement Learning," in *Proceedings of 2nd Joint Conferences on Fuzzy and Intelligent Systems*, 2008.
- Majid Moavenian, S. Mostapha Kalami and Amin Saghafi, "Active isolation of accurate instruments using Particle Swarm Optimization," in *Proceedings of 2nd Joint Conferences on Fuzzy and Intelligent Systems*, 2008.
- S. Mostapha Kalami, Naser Pariz and Mohammad-Bagher Naghibi Sistani, "Analysis of Reinforcement Learning in Markov Decision Processes as Digital Control Systems," in *Proceedings of 2nd Joint Conferences on Fuzzy and Intelligent Systems*, 2008.
- S. Mostapha Kalami and Naser Pariz, "Effect of Learning Coefficients and Population Size on Particle Swarm Optimization," in *Proceedings of 3rd International Conference on Information and Knowledge Technology*, 2007.
- S. Mostapha Kalami, "Modeling of Linear Time-Invariant Systems using Continuous Genetic Algorithm," in *Proceedings of 9th Iranian Students Conference on Electrical Engineering*, 2006.