

CURRICULUM VITAE



PERSONAL INFORMATION

Name **SARV AHRABI, Sima**
Nationality Iran

WORK EXPERIENCE

- Dates 2004 – 2011
- Employer Golhaye Saadat Private Institute, Karaj, Iran
- Sector High school education
- Position Teacher
- Main activities Taught 'General Calculus' to high school students

EDUCATION AND TRAINING

- Dates 2015 – 2018
- Organization Sapienza University of Rome, Department of Basic and Applied Sciences for Engineering, Roma, Italia
- Principal subjects Mathematical models for engineering
- Qualification awarded Doctor of Philosophy
- Level Excellent
- Dates 2012 – 2014
- Organization University Technology Malaysia, Department of Mathematics, Johor Bahru, Malaysia
- Principal subject Engineering Mathematics
- Qualification awarded Master of Science
- Dates 2000 – 2004
- Organization Mohaghegh Ardabili University, Department of Mathematics, Ardabil, Iran
- Principal subject Pure Mathematics
- Qualification awarded Bachelor of Science

PERSONAL SKILLS

MOTHER TONGUE

PERSIAN

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

ENGLISH

excellent

good

good

- Overall skill

ITALIAN

basic

SOCIAL SKILLS

- Good communication skills;
- Good team spirit;
- Easy to adapt multi-cultural environments.

ORGANIZATIONAL SKILLS

- Critical Thinking: capable of analyzing issues to make an optimized decision;
- Energetically working : capable of devoting all my energies to work;
- Organized personality: time managing and careful planning.

TECHNICAL SKILLS

- Programming languages and computing environments: Python, MATLAB;
- Machine Learning: Tensorflow, Keras, NumPy, Pandas, Scikit-Learn, Matplotlib;
- Software: LaTeX, Microsoft Office.

(These competences were acquired during my professional experience)

PUBLICATIONS LIST

- Scarpiniti, M., Sarv Ahrabi, S., Baccarelli, E., Momenzadeh, A. (2021) A novel unsupervised approach based on the hidden features of Deep Denoising Autoencoders for COVID-19 disease detection; (submitted)
- Scarpiniti, M., Baccarelli, E., Momenzadeh, A., Sarv Ahrabi, S. (2021). DeepFogSim: A Toolbox for Execution and Performance Evaluation of the Inference Phase of Conditional Deep Neural Networks with Early Exits Atop Distributed Fog Platforms, Applied Sciences, 11(1), 377;
- Sarv Ahrabi, S., Scarpiniti, M., Baccarelli, E., Momenzadeh, A. (2021). An Accuracy vs. Complexity Comparison of Deep Learning Architectures for the Detection of COVID-19 Disease, Computation, 9(1), 3;
- Baccarelli, E., Scarpiniti, M., Momenzadeh, A., Sarv Ahrabi, S. (2021). Learning-in-the-Fog (LiFo): Deep Learning Meets Fog Computing for the Minimum-Energy Distributed Early-Exit of Inference in Delay-Critical IoT Realms, IEEE Access, 9, 25716-25757;
- Sarv Ahrabi, S., Momenzadeh, A. (2020). Metaheuristics and Pontryagins minimum principle for optimal therapeutic protocols in cancer immunotherapy: a case study and methods comparison, Journal of Mathematical Biology, 81(2), 691-723;
- Loreti P., Sarv Ahrabi S., Vellucci P. (2018), Mathematical model for the output signal's energy of an ideal DAC in the presence of clock jitter, Informatics in Control, Automation and Robotics, Springer (Cham), 410-422;
- Sarv Ahrabi S., Momenzadeh A. (2018), On Failed Methods of Fractional Differential Equations: The Case of Multistep Generalized Differential Transform Method, Mediterranean Journal of Mathematics, Springer 149-154;
- D'Ovidio M., Loreti P., Sarv Ahrabi S. (2018), Modified fractional logistic equation, Physica A: Statistical Mechanics and its Applications, Elsevier 818-824;
- Javanmardi S., Shojafar M., Shariatmadari S., Sarv Ahrabi S. (2014), FRTRUST: a fuzzy reputation-based model for trust management in semantic p2p grids, International Journal of Grid and Utility Computing, 57-66;
- Sarv Ahrabi S., Shojafar M., Kazemi Esfeh H., Abraham A., (2014), Mathematical modeling of blood flow through an Eccentric Catheterized Artery: A practical approach for a complex system, Hybrid Intelligent Systems, 14th International Conference on Hybrid Intelligent Systems, IEEE.