

Ehsan Kiakojouri

Curriculum Vitae

Department of Computer Engineering and
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<https://ehsankiakojouri.github.io/CV>

- RESEARCH INTERESTS
- Deep Learning
 - Computer Vision
 - Reinforcement Learning
 - Computational Intelligence
 - Optimization
- EDUCATION
- Shiraz University of Technology, Shiraz, IRAN. September 2018 - June 2022
B.S. in Computer Engineering, **GPA: 17.63/20 (last year: 19.35/20)**, (University and Department Average GPA are 15.24 and 15.46 Respectively)
Relevant and Mentionable Coursework (GPA: 18.54/20):
Principles of Computational Intelligence (20/20), Principles of Database Design (19.14/20), Design of Algorithms (17/20), Pattern Recognition (18.1/20), Signals and Systems (18/20), Artificial Intelligence and Expert Systems (19/20).
 - Kherad Public Exemplary High School, Qeshm, IRAN. Sep 2014 - June 2018
Diploma in Physics and Mathematics Discipline, **GPA: 18.75/20**
- HONORS AND AWARDS
- Ranked top **9%** among more than 140,000 participants in National University Entrance Exam, Admitted to Shiraz University of Technology. (Best Engineering University in South of Iran), Summer 2018.
 - Ranked **5th** among computer engineering students, Shiraz University of Technology.
- PUBLICATIONS
- **Automated Deep CNN Design using Modified Bat Algorithm for Vehicle Classification**; Kiakojouri, E. *, Dolatpour Fathkouhi*, A., Kavousi-Fard, A., and Karimi, M., Submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), *under review*.
- TEACHING AND WORK EXPERIENCE
- Teaching Assistant of **Fundamentals of Computer Programming** course in Shiraz University of Technology; Fall 2019; (Prof. Pirooz Shamsinejad).
 - Teaching Assistant of **Advanced Programming** course in Shiraz University of Technology; Fall 2019; (Prof. Pirooz Shamsinejad).
 - Teaching Assistant of **Artificial Intelligence & Expert Systems** course in Shiraz University of Technology; Fall 2021; (Ali Sadeghi).
 - Teaching Assistant of **Design of Algorithms** course in Shiraz University of Technology; Spring 2020; (Prof. Omid Bushehrian).
 - Teaching Assistant of **Computational Intelligence** course in Shiraz University of Technology; Spring 2020; (Ali Sadeghi).
 - Teaching Assistant of **Signals and Systems** course in Shiraz University of Technology; Spring 2022; (Prof. Kamran Kazemi).
- Responsibilities included:** problem solving sessions; designing and grading problems for quizzes, exams and programming projects.

RESEARCH EXPERIENCE	<ul style="list-style-type: none"> • Development of several explainable artificial intelligence algorithms along with literature review, Apr 2022; a joint work with A. Dolatpour Fathkouhi, R. Akbari, R. Razavi-Far, and J. Zarei; work in progress. We are reviewing the literature on sample neighborhood problems in XAI algorithms as well as designing and implementing two LIME-inspired XAI algorithms using swarm optimization and Siamese neural network. • Examining the role of smoking in covid-19 patients, Feb. 2022 – Mar. 2022; a joint work with A. Dolatpour Fathkouhi, R. Akbari and S.M.J. Mortazavi. We Investigated the role smoking in covid-19 patients in the city of Shiraz. • Design and Implementation of a swarm optimization algorithm for designing architecture of deep learning models for classifying vehicle types using audio signals, Jan. 2021 – Mar. 2022; a joint work with A. Dolatpour Fathkouhi, A. Kavousi-Fard and M. Karimi at Shiraz University of Technology, Shiraz, Iran. We developed a novel swarm optimization algorithm and designed blocks of neural networks to fit the evolutionary optimization and ease the process of architecture design and optimization and applied the solution on a real-world problem.
ACTIVITIES	<ul style="list-style-type: none"> • Executive Member at CE & IT Scientific Association at Shiraz University of Technology, Shiraz, Sep 2020 – Mar 2021 (<i>holding webinars for the professional education of students</i>).
SKILLS	<ul style="list-style-type: none"> • Human Languages: Persian (Native) and English (Reading, Writing, Listening, Speaking) • Programming Languages: C++, Java, Python • Programming Tools: Tensorflow, Numpy, Pandas, MATLAB, Weka, CodeVision AVR, Proteus
CERTIFICATES	<ul style="list-style-type: none"> • Deep learning & Neural Network Workshop, Loop Academy, Tehran, Iran, Apr 2020 • Brain Stimulation & Brain Signals, National Brain Mapping Laboratory (NBML), Tehran, Iran, November 2021
HOBBIES	<ul style="list-style-type: none"> • Art, Painting (Ranked 2nd in Art Contest amongst students of all schools in all educational levels in province in Hormozgan, Iran, 2014.) • Sports, Ping Pong, Karate(Kyokushin), Swimming, Cycling. • Study and Reading, in search of wisdom.
REFERENCES	<ul style="list-style-type: none"> • Dr. Abdollah Kavousi-Fard, Associate Professor, Department of Electrical and Electronics Engineering, Shiraz University of Technology Phone: +98-713 727 9189, Email: kavousi@sutech.ac.ir • Dr. Reza Akbari, Associate Professor, Department of Computer Engineering and Information Technology, Shiraz University of Technology Phone: +98-713 726 1391, Email: akbari@sutech.ac.ir