

ALIREZA SABER

Shahrood, Semnan, Iran

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EDUCATION

Master in Computer Engineering, Software Orientation, Islamic Azad University, Shahrood Branch 2020-2024
GPA: 3.66 (out of 4)
Dissertation: Interpretable Yoga pose classification using deep learning methods
Supervisor: Dr. Mohammad Mehdi Hosseini
Bachelor's Degree in Computer Engineering, Information Technology, Shahrood University of Technology 2014-2019
GPA: 2.39 (out of 4)
Supervisor: Dr. Marzie Rahimi

RESEARCH INTERESTS

- Machine Learning and Deep Learning
- Artificial intelligence for medical image analysis
- Optimization Algorithms
- Computer Vision and Image Processing
- Generative AI
- Data processing
- LLM
- Multimodal

PUBLICATIONS

Published Articles

- **Alireza Saber**, Mahdieh Sharifi Fakhim, Amirreza Fateh, Mansoor Fateh, “[A Lightweight Multi-Scale Refinement Network for Gastrointestinal Disease Classification](#)”, Expert Systems with Applications
- **Alireza Saber**, Amirreza Fateh, Pouria Parhami, Alimohammad Siahkarzadeh, Mansoor Fateh, Saideh Ferdowsi “[Efficient and Accurate Pneumonia Detection Using a Novel Multi-Scale Transformer Approach](#)”, Sensors
- **Alireza Saber**, Mohammad Mehdi Hosseini, Mansoor Fateh, Amirreza Fateh, Vahid Abolghasemi, “[Lightweight Multi-Scale Framework for Human Pose and Action Classification](#)”, Sensors

Under Review Articles

- **Authors:** Sadjad Rezvani, **Alireza Saber**, Vahid Abolghasemi
Title: LiteFusion-Former: A Lightweight Hybrid CNN–Transformer with External Memory and Dual Spatial Attention for Real-Time gastrointestinal Image Classification, IEEE Transactions on Neural Networks and Learning Systems

RESEARCH EXPERIENCE

Research Assistant

Faculty of Computer Engineering, Shahrood University of Technology, at [CVLab SHUT](#) 2024-Present

- Working on computer vision tasks and medical image analysis under supervision of Dr. Mansoor Fateh
- Design and build interpretable and lightweight AI models in medical area
- Collaboration in the peer-review process of academic manuscripts, evaluating methodology and contribution to the field.

TEACHING EXPERIENCE

Teaching assistant, Decision Support Systems, Islamic Azad University

2022

- Graded assignments and exams to provide tailored feedback based on course expectations and outcomes

Programming Instructor, C# and java, Noor Afshan Organization

2016-2017

- Taught introductory and intermediate programming courses to groups of students with diverse technical backgrounds

WORK EXPERIENCES

Web developer, Stickywebdesign, Tehran, Iran

2021-2022

- Building and designing frontend web pages
- Editing images and videos for advertisement and page design

INTERNSHIPS

- An internship passed in Keyghobad Knowledge Enterprise, shahrood, Iran

2018

LANGUAGE PROFICIENCY

- Fluently bilingual in English and Persian
- My mother tongue is Persian
- IELTS academic certificate for English with overall score of 7

SKILLS

Software and IT Skills

- **Programming languages**, Python, java, C++, C#, CSS and HTML
- **Deep learning frameworks**, PyTorch, TensorFlow, Keras, Pandas, Matplotlib
- **Software**: Latex, Microsoft Office, Adobe Photoshop, Adobe Premiere

Soft Skills

- Strong communication skills, teamwork skills, hardworking, focused

AWARDS AND HONORS

- Being among top3 graduated students in master
- Studied in a gifted high school
- Obtained fourth place in the provincial volleyball tournament

REFERENCES

- | | |
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| • Referee 1 | Dr. Mansoor Fateh |
| • Affiliation | Associate Professor at Shahrood University of Technology |
| • Email | mansoor_fateh@shahroodut.ac.ir |
| • Referee 1 | Dr. Mohammad Mehdi Hosseini |
| • Affiliation | Assistant Professor at the Islamic Azad University, Shahrood Branch |
| • Email | Hosseini_mm@shahroodut.ac.ir |
| • Referee 2 | Dr. Abdolvahab Ehsani Rad |
| • Affiliation | Assistant Professor at the Islamic Azad University, Shahrood Branch |
| • Email | vahabrad@iau.ir |