

Saeed Najafi Khanbebin

Faculty of Electrical & Computer Engineering

Lorestan university

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EDUCATION

- **Ph.D., Electronics, Lorestan university, (2018-2023)**

Concentration: Computer vision and Deep learning

Dissertation: Analyzing facial images using feature extraction methods and deep learning

Dissertation Supervisor: Vahid Mehrdad, Ph.D.

RESEARCH INTERESTS

- Face recognition
- Facial expression recognition
- Medical image analysis
- Deep learning in computer vision

PUBLICATIONS

- S. N. Khanbebin and V. Mehrdad, "Local improvement approach and linear discriminant analysis-based local binary pattern for face recognition," *Neural Comput. Appl.*, pp. 1–17, 2020.(Published)
- S. N. Khanbebin and V. Mehrdad, "Genetic-based feature fusion in face recognition using arithmetic coded local binary patterns," *IET Image Process.*, 2020.(Published)
- S. N. Khanbebin, Mehrdad.V.: 'The feature fusion approach in MobileNet with hand-crafted features using inclined planes system optimization for facial expression recognition'(Submitted ISI)
- Khanbebin SN, Mehrdad V (2022) Improved convolutional neural network-based approach using hand-crafted features for facial expression recognition. *Multimed Tools Appl* 1–17. <http://dx.doi.org/10.1007/s11042-022-14122-1>
- Najafi Khanbebin S, 'Mehrdad V Facial Expression Recognition Using Gravitational Search Algorithm-Based Convolutional Neural Network and Feature Fusion Strategy (Accepted). *Soft computing*.

- S. N. Khanbebin, Mehrdad.V.: ‘Light-weight attentional convolutional capsule network for facial expression recognition’ (Under review)
- S. N. Khanbebin, Mehrdad.V.: ‘Face feature extraction method based on neighborhood calculation of elliptical local binary patterns’, 3rd National Conference on New Technologies in Electrical and Computer Engineering, Isfahan, 2020. (In Persian)
- S. N. Khanbebin, Mehrdad.V.: ‘Improvement of convolutional neural network based on meta-heuristic algorithm in order to identify facial expressions’, 5th National Conference on New Technologies in Electrical and Computer Engineering, Isfahan, 2022. (In Persian)

Book Chapter

Artificial Intelligence in Mechatronics and Civil Engineering : Bridging the gap.
ISBN: 9789811987892

Chapter title:

- Khanbebin, Saeed Najafi, and Vahid Mehrdad. "Machine Learning in Mechatronics and Robotics and Its Application in Face-Related Projects." In Artificial Intelligence in Mechatronics and Civil Engineering: Bridging the Gap, pp. 235-247. Singapore: Springer Nature Singapore, 2023.

PROFESSIONAL MEMBERSHIPS

- Member of Iran society of machine vision and Image processing
- Project researcher, Funded by National Elites Foundation (November 2020)

TEACHING EXPERIENCE

- Teaching at Gonbad Kavos National University from the beginning of the semester of Bahman 2022, courses in electronics 1, Specialized English language for electricity, electronics 2, principles of telecommunication circuits, industrial electronics laboratory, signals and systems, linear control systems laboratory, circuit and measurement laboratory
- Teaching courses at Chamran Technical and Vocational University of Gorgan from the beginning of the semester of February 2022
- Basics of electricity and laboratory, drawing software in electricity, application of microcontroller and laboratory, Specialized English language for electricity.

RELEVANT SKILLS

- Image processing and Computer vision (Opencv)
- Pattern recognition and machine learning

- Programming in Matlab, Python
- Deep learning with Pytorch and Keras

LANGUAGE PROFICIENCY

Persian: Native

English: Advanced

References :

Dr.Ali Mir Full professor (Mir.a@lu.ac.ir)

Dr.Vahid Mehrdad Associated professor(Mehrdad.v@lu.ac.ir)

Dr. Salman Karimi Assistant professor(Karimi.salman@lu.ac.ir)