Mahshid Dehghanpour

University Lecturer at SUT, Shahrood, Semnan, Iran

University Lecturer at Soroush National Skills University, Isfahan, Iran
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Female

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SUMMARY OF QUALIFICATIONS

Expertise: Artificial Intelligence, Image Processing, Deep Learning, Machine Learning, Neuroscience (Neurolinguistics), Data Mining, producing learning model with AI algorithms, Natural Language Processing (NLP), Bio informatics science, Applied Linguistics (CALL & MALL), Video Game learning and E-Learning and virtual teaching, Linux Kernel Programming, experienced in working with multicultural groups, experienced in teaching a variety of computer courses, English Language and game programming.

Interested areas: Artificial intelligence, including Image Processing, Deep Learning, Machine Learning, Data Mining, Cognitive Science, Brain Computer Interface, Programming, Networking in Computer, Child Psychology, Critical Thinking, Second Language Teaching, Game Therapy, and Game-Based Learning.

EDUCATION

- **PhD candidate in Artificial Intelligence 2022**

Shahrood university of Technology, Semnan, Iran

GPA 19.06/20

- **Thesis title:** "Early Diagnosis of Multiple Sclerosis Disease Using Multimodal Deep Neural Networks" under the supervision of Prof. Mansoor Fateh, a graduate of Tarbiat Modares University, Tehran, Iran, and currently a faculty member at Shahrood University of Technology, Semnan, Iran.
- Teaching assistantship of various Artificial Intelligence courses such as Deep Learning, Reinforcement Learning, Natural Language Processing, Machine Learning, Neural Network, and Image Processing for Iranian and international students at Shahrood University of Technology.
- Teaching the Advanced Programming and Operating System courses to Computer Science students at Shahrood University of Technology as a part-time instructor.

- **Master of English Teaching 2021**

University of Isfahan, Isfahan, Iran

GPA 18.11/20

Thesis title: "The Relationship between Video Gaming and Critical Thinking Skills and Reading Comprehension Ability of Iranian EFL Learners," with a score of 19.25/20 under the supervision of Prof. Saeed Ketabi, a graduate of Cambridge University and currently a faculty member at the University of Isfahan, Isfahan, Iran.

- Expanded Skills on the Iranian EFL Learners' Reading Comprehension.
- Experienced in working with different nations studying languages in Iran.
- Successfully passed advanced courses in game programming for game therapy using video games.
- Experienced in course content development in the field of game therapy and critical thinking.
- Teaching and technical assistantship
- Experience in electronic course content development

- **Master of Software Engineering 2014**

Azad University, Tehran Science and Research Branch, Tehran, Iran

- Thesis title: "Concurrent Multi-Path Communication Enhancement by Focusing on Congestion Control" with a score of 18.33/20 under the supervision of Dr. Abbas Malekpour, a faculty member at the University of Rostock in Germany, and currently a regular casual instructor and Machine Learning Big Data scientist researcher at the University of Ontario, Institute of Technology, Toronto, Canada
- Teaching assistantship of various computer engineering courses
- Enhanced high familiarity with Data Mining and Machine Learning

- **Bachelor of Computer Engineering (Software Engineering) 2008**

Azad University, Najaf Abad Branch, Isfahan, Iran

- Thesis title: "Adding a module as a virtual hardware driver to the kernel of the Linux operating system" with a score of 19.5/20 under the supervision of Mr. Ali Davoudian, RA at Carlton University (idavoudian@cmail.carlton.ca)
- Experienced in teaching C^{++} programming, software engineering, operating systems, and specialized
- language, and English conversation with students and children
- Experienced in IT consultation

- **Associate Degree in Computer Engineering (Software Engineering) 2005**

State University, Najaf Abad University, Isfahan, Iran

- Ranked among the top 10 graduate students. Successfully passed advanced technical courses.
- Successfully developed new animated software for a private company.

- Teaching assistantship in C^{++} programming.

EMPLOYMENT:

Regular Casual Lecturer (20 hrs. per Week)
2009- 2025

Shahrood University of Technology, Isfahan University, Payam Noor University, National Skills University, and Azad University
Teaching Python, Java, C, C++, and Linux Kernel Computer programming, Operating systems, Software Engineering, Application of computer in chemistry, Computers and programming, Familiarity with chemistry software, electronic commerce, and Computer simulation related to computer-chemistry major
- Teaching the Persian language to non-Iranian students
- Technical and teaching assistantship (online and on campus)
- Payam Noor University (E-Learning Center),
- Course content development using graphical and animation software at the E-Learning Center for online education purposes

Software development
2009- 2010
- Software developer and animator at Isfahan Computer Research Center, using ActionScript and Photoshop, and required software to develop graphical parts of projects

IT Specialist
2009-2011
- IT Specialist at Shahin Shahr Religious Schools
- IT Specialist at Raghib Esfahani University

MEMBERSHIPS:

- Membership in the Adolescent Scientific Association (in the third grade of middle school) in the year 1999, Sept – 2000, May
- Member of the IT Committee of the ICELS conference of the University of Isfahan, Dec 11-13,2019
- Member of the Canadian Society for Brain, Behavior, and Cognitive Science (CSBBCS) International Association 2020
- Member of Iranian Neuroscience Society, Membership number: 2020
- Member of the Computer Society of Iran 2020
- Member of the Annual Cognitive Science Association of Iran 2020

Publications:

CONFERENCES:

- **Dehghanpour, M.** (2025). Delivering a national webinar on "An Introduction to A New Era in Second Language Learning Through Artificial Intelligence " at National Skills Universities nationwide. Date: January 9, 2025 | Duration: 2 Hours

- **Dehghanpour, M.** (2024). Delivering a country webinar on "An Introduction to Artificial Intelligence and Its Applications in Scientific Research" at National Skills Universities nationwide. Date: May 13, 2024 | Duration: 2 Hours

- **Dehghanpour, M.** (2024). Delivering a national webinar on "Artificial Intelligence: Fundamentals and Applications in Academic Research" at National Skills Universities nationwide.
  Date: December 8, 2024 | Duration: 2 Hours

- Adeli, M., ***Dehghanpour, M.**, Mazrouei, M., & MOHAMMADI, A. (2022). Thermogram Breast Cancer Detection Using Deep Learning Techniques: A Review.

- Jafari, E., ***Dehghanpour, M.**, Shahidi, H., & MOHAMMADI, A. (2022). A review of skin cancer diagnosis and classification methods using deep learning models.

- Ebrahimi, A., ***Dehghanpour, M.**, Shahi, M., & MOHAMMADI, A. (2022). A review of cervical cancer diagnosis and classification methods using machine learning and deep learning models.

- Tahmasebi, T., ***Dehghanpour, M.**, Arjmand, F., & MOHAMMADI, A. (2022). An overview of skin disease diagnosis methods using machine learning and deep learning algorithms.

- Absalan, M**, *Dehghanpour, M**. (2021). A Review of the Detection, Classification Algorithms and Predictive Models for Epilepsy, Using EEG Signals, 2021, Fifth International Conference on Science and Technology of Electrical, Computer and Mechanical Engineering of Iran.

- **Dehghanpour, M.** (2021). Delivering a national webinar on image forensics in JPEG images from the perspective of artificial intelligence at National Skills Universities nationwide.
  Date: Dec 14, 2021 | Duration: 2 Hours

- **Dehghanpour, M**. (2020). Gamified Vocabulary Learning and Retention in Iranian EFL Context, 2020 International Conference on Education and Learning, Kokoka Kyoto International Community House, Kyoto, **Japan.**

- **Dehghanpour, M**., & Nejhadansari, D. (2018). The role of computer language games on Iranian EFL learners' vocabulary learning, vocabulary retention, and motivation, International Conference on Linguistics at NTELTISTANBUL, **Turkey.**

- **Dehghanpour, M**. (2018). How Professor Widdowson Inspired Me, Lecture presented at the celebration of "APPLIED LINGUISTICS, PAST PRESENT, AND FUTURE HORIZONS", the event organized by the Department of English and Literature, Faculty of Foreign Languages, University of Isfahan, Isfahan, Iran.

- **Dehghanpour, M**., Malekpour, A., & Soltan Aghai, M. (2014). Improving data transfer rate in CMC-SCTP with a dynamic look at the delay parameter, International Conference Paper Presented at the Second National Conference on Computer Science and Engineering, Islamic Azad University, Najafabad Branch, Faculty of Computer Engineering, Isfahan, Iran.

- **Dehghanpour, M**. (2013). Study of congestion control in the network under the TCP protocol, paper presented at the celebration of Research and Technology Week, University of Azad, Shahin Shahr Branch, Isfahan, Shahin Shahr, Iran.

WORKSHOPS:

- **Dehghanpour, M.** (2025). Delivering a seminar on "Artificial Intelligence Assisting Physicians: Enhanced Multiple Sclerosis Diagnosis through MRI Images Analysis" as the keynote speaker, organized by the College of Science, Computer Science Department at Al-Maarif University, Ramadi, Al
  Date: April 30, 2025 | Duration: 2 Hours

- **Dehghanpour, M.** (2025). Delivering a Practical Workshop: 'Creating Animations with AI'
  Hosted by: Eshragh Cultural Center, Shahin Shahr | Age Group: 7–15 Years
  Date: January 22–26, 2025 | Duration: 6 Hours

- **Dehghanpour, M.** (2025). Delivering a Practical Workshop: 'English Language Learning with Artificial Intelligence'
  Hosted by: Eshragh Cultural Center, Shahin Shahr | Age Group: Ages 15+
  Date: January 22–26, 2025 | Duration: 6 Hours

- **Dehghanpour, M.** (2025). Delivering a Practical Workshop: 'English Language Learning Through Artificial Intelligence for Children'
  Hosted by: Eshragh Cultural Center, Shahin Shahr | Age Group: Children
  Date: January 22–26, 2025 | Duration: 4 Hours

- 1st International Conference on English Language Studies (ICELS) University of Isfahan, Isfahan, Iran, December 11-13, 2019
- Aestheticism and Romantic Poetry at the 1st International Conference on English Language Studies (ICELS), University of Isfahan, Isfahan, Iran, December 11-13, 2019
- Three series workshops "Second Biennial National Conference on Persian to Non-Persian Language Teaching, Shahid Beheshti University of Tehran, Tehran, Iran, 2018 November
  - Technology-Aided Language Skills Workshop (Related to English Master's Thesis), Tehran, Iran
  - Standardization workshop and method of producing multimedia electronic content in the Persian language teaching
  - Workshop for preparing, compiling, and adapting educational materials by the teacher

- Game Development Using Fusion Game Engine", The Center of Video Games, University of Isfahan, Isfahan, Iran, Autumn, 2018

CERTIFICATES

- Certificate of Appreciation of the invaluable service and significant contribution to the executive committee of the 1st International Conference on English Language Studies (ICELS), University of Isfahan, Isfahan, Iran, December 11-13, 2019
- Attendance in the following event organized by this Department, APPLIED LINGUISTICS, PAST PRESENT AND FUTURE HORIZONS, the Department of English and Literature, Faculty of Foreign Languages, University of Isfahan, Isfahan, Iran, Thursday, 3 May 2018

Supervising projects and undergraduate theses
Registered in the Golestan and Bustan website system

- served as the thesis supervisor for two undergraduate computer science students at Shahrood University of Technology, research field: **Artificial Intelligence.**
- served as the thesis supervisor for 10 undergraduate computer science students at Najaf Abad National Skills University and Soroush National Skills University, research field: **IT and software.**

- served as the thesis supervisor for 25 undergraduate computer science students at Payam Noor University, research field: **AI, IT, and software.**

HONORS AND AWARDS:

- Distinguished Professor of Soroush National Skills University among National Skills Universities of Isfahan Province in the 2024-2025 Academic Year, Iran, 2025.
- Ranked third Master of English Teaching, University of Esfahan, Iran, 2021.
- Successfully secured a research opportunity for a Master's thesis in the field of English Language Teaching from the University of Waterloo, Canada, 2020.
- Selected as **top English teacher** in Narjes Khatoon Institute, 2020.
- **Issuance of permission** to teach English conversation courses and general computer courses by reputable scientific centers during the student period due to scientific abilities (teaching from the age of 20), 2008.
- Ranked **first** in the National English Literature Olympiad, Esfahan, Iran, 2005.
- Ranked **first** in the national Creativity Competition of Towns in making educational media, Shahin Shahr, Isfahan, Iran, 1997.
- Outstanding student in all levels of school education (**first to third** place) in elementary, middle, high school, and technical schools.

SKILLS:

Languages:

English (fluent),

Arabic (Intermediate),

Persian (Native),

Turkish (Elementary)

Software:

Programming Languages: Python, Java, C++, C, Shell Scripting (bash), Pascal
Web Programming: PHP
Operating Systems: Linux (Fedora, Ubuntu, Windows), DOS
Graphic Software: Photoshop, Adobe Animate, Flash Mx

HOBBIES:

- Playing Music on a dulcimer
- Cycling, swimming, yoga, and, as a child, playing gymnastics and table tennis
- Reciting poetry and studying the great poet Hafez Shirazi's poems