Curriculum Vitae

Ateke Goshvarpour, Ph.D.
Assistant Professor of Biomedical Engineering

Personal:
- **Nationality:** Iranian
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Education:
- **Ph.D.** (December, 2012 - August, 2017): Biomedical Engineering, Faculty of Electrical Engineering, Sahand University of Technology, Tabriz, Iran.
  Thesis Title: The Impact of Bilingualism, Sleep, and Personal Experience on Emotion Recognition for Male and Female Students
- **MSc.** (December, 2009 - September, 2011): Faculty of Biomedical Engineering, Islamic Azad University, Mashhad branch, Mashhad, Iran.
  Thesis Title: Analysis of electroencephalogram and heart rate signals during meditation using Hopfield neural network
- **BSc.** (February, 2003 - February, 2008): Faculty of Electrical Engineering, Islamic Azad University, Bojnourd branch, Bojnourd, Iran.
  Thesis Title: Micro-electromechanical systems (MEMS)

Areas of Interests:
- Biomedical Signal Processing
- Nonlinear Dynamics
- Affect Recognition
- Neuroscience
- Complementary Medicine

- Human Identification

Academic Activities:

- January, 2013 – January, 2018: Lecturer, E-learning Center of Sahand University of Technology Tabriz, Iran.
- December, 2018 – December, 2019: Lecturer, Imam Reza International University
- December, 2019 – now: Assistant Professor, Imam Reza International University

Teaching Experiences:

Undergraduate Courses:

- Biostatistics
- Protecting Hospital Facilities
- General Hygiene
- Computer programming; C++
- Electrical Circuits 1
- Electrical Circuits 2
- Anatomy
- Systems Analysis
- Signals & Systems
- Rehabilitation Principles and Tools
- Information Technology
- Research Methods in Medical Engineering
- Technical English and Medical Terminology
- Engineering Mathematics

Graduate Courses:

- Modeling of Biological systems
- Biomedical Signal Processing

Editorial role:

- Editorial Board Member, Brain Sciences (JCR- IF:3.33): https://www.mdpi.com/journal/brainsci/sectioneditors/Computational_Neuroscience_Neuroinformatics?search=ateke
- Special Issue Editor: (Entitled: Emerging Trends of Biomedical Signal Processing in Intelligent Emotion Recognition): https://www.mdpi.com/journal/brainsci/special_issues/U8J3D1565Y
- Academic Editor of an article in other journal (Frontiers in Neuroscience): https://www.frontiersin.org/journals/neuroscience/articles/10.3389/fnins.2023.1213099/full

Awards and Achievements:

- First Ranked GPA in Biomedical Engineering, Sahand University of Technology (among PhD Students, Entrance 2012)
- Ranked First in the PhD Exam Scientific Interview at Sahand University of Technology (2012)
- Received the National Elite Foundation scholarship in the academic year 2016-2017
- Subscribe to Talent Students, Sahand University of Technology
- Highly cited world top 2 percent scientists, 2022.
- Top researcher in the research and technology week festival of 1401, Astan Quds Razavi
- Winner of the special prize of the provincial stage of Chamran National Festival in the articles section, 15 Feb., 2023.

Publications:

Book

Goshvarpour Ateke, Goshvarpour Atefeh,"Physiological and Neurological Changes during Meditation", Young Nurses, Mashhad, pp. 152, 2011 (Text in Persian)

Goshvarpour Atefeh, Goshvarpour Ateke. "Digital signal and image processing using MATLAB-vol.1 and vol.2 (by: Gerard Blanchet & Maurice Charbit)", Imam Reza International University, 2021. (Translated in Persian)

Daneshmand-Bahman Faezeh, Goshvarpour Ateke. Anxiety recognition using a new EEG signal analysis approach based on samples density in Chebyshev chaotic map. In: Affective Computing in Healthcare: Applications based on Biosignals and Artificial Intelligence. M. Murugappan (Ed.). IOP – Institute of Physics and Engineering in Medicine (IPEM). (Accepted)

Journal Articles

[1] Atefeh Goshvarpour, Ateke Goshvarpour. "Evaluating Ratio Indices Based on Electroencephalogram Brainwaves in Schizophrenia Detection" Journal of Medical and Biological Engineering 44: 127–143, (2024). https://doi.org/10.1007/s40846-024-00851-1

[2] Atefeh Goshvarpour, Ateke Goshvarpour. "EEG Emotion recognition based on an innovative information potential index," Cognitive Neurodynamics (2024). https://link.springer.com/article/10.1007/s11571-024-10077-1

[3] Atefeh Goshvarpour, Ateke Goshvarpour. "The effect of Yoga meditation and metronomic breathing on physiological parameters: A study of heart rate variability," Iranian Journal of Medical Physics (2024). Doi: 10.22038/ijmp.2023.69826.2232

[4] Atefeh Goshvarpour, Ateke Goshvarpour. "Emotion recognition using a novel Granger causality quantifier and combined electrodes of EEG," Brain Sciences 2023, 13(5), 759; https://doi.org/10.3390/brainsci13050759

[5] Reyhane Gholamzadeh, Ateke Goshvarpour. "Three-dimensional phase space characteristics of electrocardiogram segments in online and early prediction of sudden cardiac death," Iranian Journal of Medical Physics (2024). Doi: 10.22038/ijmp.2023.66811.2149

[6] Atefeh Goshvarpour, Ateke Goshvarpour. "Lemniscate of Bernoulli's map quantifiers: innovative measures for EEG emotion recognition," Cognitive Neurodynamics (2023). https://doi.org/10.1007/s11571-023-09968-6

[7] Atefeh Goshvarpour, Ateke Goshvarpour. "Innovative measures of Verhulst diagram for emotion recognition using eye-blinking variability," International Clinical Neuroscience Journal 2023; 10(1):e6. doi: 10.34172/icnj.2023.06

[8] Atefeh Goshvarpour, Ateke Goshvarpour. "An Innovative Information-based Strategy for Epileptic EEG Classification," Neural Processing Letters (2023) https://doi.org/10.1007/s11063-023-11253-w

[9] Atefeh Goshvarpour, Ateke Goshvarpour. "Evaluation of Eye-Blinking Dynamics in Human Emotion Recognition using Weighted Visibility Graph," Frontiers in Biomedical Technologies 11(2): 265-277; 2024. https://doi.org/10.18502/fbt.v11i2.15344

[10] Roya Sheibany, Ghasem Sadeghi, Ateke Goshvarpour. "Study of interactive variation between brain and heart signals while listening to Holy Quran," Caspian Journal of Neurological Sciences 9(2): 78-91; 2023. https://cjns.gums.ac.ir/article-1-614-en.html

[11] Atefeh Goshvarpour, Ateke Goshvarpour. "Analytic representation vs. angle modulation of Hilbert transform of fast Walsh-Hadamard coefficients (HTFWHC) in epileptic EEG classification," Brazilian Journal of Physics 50:13, 2023. https://doi.org/10.1007/s13538-022-01231-3

[12] Atefeh Goshvarpour, Ateke Goshvarpour. "Matching Pursuit-based analysis of fNIRS in combination with cascade PCA and reliefF for mental task recognition," Expert Systems With Applications 213 (Part C): 119283, 2023. https://doi.org/10.1016/j.eswa.2022.119283

[13] Atefeh Goshvarpour, Ateke Goshvarpour. "Schizophrenia Diagnosis by Weighting the Entropy Measures of the Selected EEG Channel," Journal of Medical and Biological Engineering 42, 898–908 (2022) https://doi.org/10.1007/s40846-022-00762-z

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[16] Fateme Jalaly, Ateke Goshvarpour. "Assessment of learning a new skill using non-linear and spectral features of EEG," Signal, Image and Video Processing 17, 1199–1207 (2023) https://doi.org/10.1007/s11760-022-02327-8

[17] Atefeh Goshvarpour, Ateke Goshvarpour. "The impact of gravitational stress on cardiac dynamics using entropy," Iranian Journal of Medical Physics 20(2), 72-79 (2023)

[18] Fatemeh Makhloughi, Ateke Goshvarpour. "Prediction of Covid-19 confirmed and death rates in Iran using long short-term memory neural network," Journal of Health and Biomedical Informatics 2022; 9(1): 27-39

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[20] Atefeh Goshvarpour, Ateke Goshvarpour. "Verhulst map measures: new biomarkers for heart rate classification," Physical and Engineering Sciences in Medicine 2022; 45: 513–523

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https://link.springer.com/article/10.1007/s11760-017-1092-9

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[13] Faezeh Daneshmand-Bahman, Maryam Masoumi Bidakhti, Ateke Goshvarpour, "Classification of the skin conduction signal of people when faced with a stressful stimulus: Comparison of tonic and phasic morphological characteristics," 9th National Congress of Electrical and Computer Engineering of Iran, Ardabil-Iran, 20 November 2022.

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[19] Maryam Khansari, Mitra Mohebi, Ateke Goshvarpour, "Separation of preterm-term delivery from non-pregnant using frequency and nonlinear analysis of electrohysterogram signals," 5th International Conference On Electrical, Computer, and Mechanical Engineering, Tehran, Iran. Feb. 18, 2022.

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Supervised BSc. Thesis

	STUDENT	DATE OF DEFENSE	SUPERVISOR/ ADVISOR
1	Aghajani Farzaneh	Sep. 14, 2019	Supervisor
2	Khodaei Jahanabad Fatemeh	Sep. 14, 2019	Supervisor
3	Sepehri Noghondar Masoume	Feb. 4, 2020	Supervisor
4	Mahsa Tahmasbi	Oct. 4, 2020	Supervisor
5	Fatemeh Makhloughi	Oct. 4, 2020	Supervisor
6	Salari Maryam	Nov.10, 2020	Supervisor
7	Rahimi Fatemeh	Nov.10, 2020	Supervisor
8	Khadem Fatemeh	Nov.10, 2020	Supervisor
9	Mahsa Daneshmand	Nov.17, 2020	Supervisor
10	Zeinab Jamshidi	Nov.17, 2020	Supervisor
11	Sahar Kermani	Feb. 8, 2021	Supervisor
12	Mozhgan Rezaei	Feb. 8, 2021	Supervisor
13	Elham Soltani Robati	Feb. 16, 2021	Supervisor
14	Masumeh Ahmadi	Feb. 16, 2021	Supervisor

15	Elham Jani Shurab	Feb. 16, 2021	Supervisor
16	Atusa Eidi	Feb. 16, 2021	Supervisor
17	Zahra Sabti	Feb. 24, 2021	Supervisor
18	Zahra Ealbeigi	Feb. 24, 2021	Supervisor
19	Reyhaneh Akbari	Feb. 27, 2022	Supervisor
20	Mahsa Javadi	Feb. 27, 2022	Supervisor
21	Fatemeh Motamedi moghaddam	Feb. 27, 2022	Supervisor
22	Maryam Khansari	Mar. 2, 2022	Supervisor
23	Mitra Mohebi	Mar. 2, 2022	Supervisor
24	Fatemeh Sadat Mousavi	Mar. 3, 2022	Supervisor
25	Hadiseh Sabour-Karzan	Mar. 3, 2022	Supervisor
26	Maryam Masoomi Beydokhti	Sep. 8, 2022	Supervisor
27	Nahid Raouf Salamati	Feb. 7, 2023	Supervisor
28	Sara Moshiryan	Feb. 7, 2023	Supervisor
29	Arezo Sanati Fahandary	Feb. 7, 2023	Supervisor
30	Fahimeh sadat Abolhasani	Feb. 7, 2023	Supervisor
31	Hashemieh Soltani	Feb. 7, 2023	Supervisor
32	Mohadeseh Touri	Feb. 19, 2023	Supervisor
33	Raziyeh Mirzaei	Feb. 19, 2023	Supervisor
34	Zahra Khosravi	8 Aug. 2023	Supervisor
35	Narges Sadat Atai	8 Aug. 2023	Supervisor
36	Atefeh Abedinzadeh	30 Aug. 2023	Supervisor
37	Fatemeh Elyaspour	30 Aug. 2023	Supervisor
38	Atiye Soroush	12 Sep. 2023	Supervisor
39	Najme Saem	12 Sep. 2023	Supervisor
40	Mahla Afsari	12 Sep. 2023	Supervisor
41	Zahra Deljuy	12 Sep. 2023	Supervisor
42	Sahel Mozahab Yusefi	12 Sep. 2023	Supervisor

Supervised MSc. Thesis

	STUDENT	TITLE	DATE OF DEFENSE	SUPERVISOR/ ADVISOR
1	Reyhaneh Gholamzadeh		Oct. 19, 2021	Supervisor
2	Roya Sheibany	Study of interactive variation between brain and heart signals while listening to the Holy Quran	Feb. 26, 2022	Supervisor (2nd)
3	Nahid Ghoreishi	Electroencephalographic classification of autistic and healthy children based on Analysis of asymmetry in Segmented Poincare Plot	Feb. 28, 2022	Supervisor (2nd)
4	Zahra Barati Moghadam	Evaluation of behavioral dynamics of different parts	Mar. 3, 2022	Supervisor (2nd)

		of the brain in ADHD diagnosis using sLORETA		
5	Faezeh Daneshmand-Bahman	Evaluation of a new index of electroencephalogram signal based on improved Chebyshev's chaotic maps in discriminating anxiety levels	Sep. 24, 2022	Supervisor
6	Fateme Jalaly	Assessment of learning a new skill using new indicators of asymmetry in the Rhodonea curve of the EEG signal	Oct. 1, 2022	Supervisor
7	Soheila Oliazadeh	Classification of Pathological Gait Modes Using Phase Space Features	Oct. 25, 2022	Supervisor
8	Fatemeh Golzari	Analyzing the effect of bimanual training using a computer game on synergy with the hands of cerebral palsy children with torso paralysis, based on phase space dynamics analysis	March. 14, 2024	Supervisor (2nd)

Reviewer

	JOURNAL	INDEXING	NUMBER OF ARTICLES
1	Artificial Intelligence Review	JCR	1
2	Journal of Building Engineering	JCR	1
3	Neural Computing and Applications	JCR	2
4	Scientific Reports	JCR	6
5	Engineering Science and Technology, an International Journal	JCR	2
6	Computers in Biology and Medicine	JCR	14
7	Biomedical Signal Processing & Control	JCR	24
8	PLOS ONE	JCR	1
9	Brain Sciences	JCR	3
10	Diagnostics	JCR	1
11	Frontiers in Computer Science	JCR	1
12	Frontiers in Neuroscience	JCR	1
13	Frontiers in Human Neuroscience	JCR	1
14	Biomedical Engineering Letters	JCR	1
15	Cognitive Neurodynamics	JCR	9

16	IEEE Transactions on Cognitive and Developmental Systems	JCR	1
17	Frontiers Human Neuroscience	JCR	2
18	Computational Intelligence and Neuroscience	JCR	1
19	Australasian Physical & Engineering Sciences in Medicine	JCR	2
20	Biomedical Engineering/Biomedizinische Technik	JCR	1
21	Signal, Image and Video Processing	JCR	2
22	EURASIP Journal on Advances in Signal Processing	JCR	1
23	Journal of Integrative Neuroscience	JCR	1
24	Discover Psychology		1
25	Informatics in Medicine Unlocked	SCOPUS	1
26	Indian Heart Journal	SCOPUS	1
27	Advances in Integrative Medicine	SCOPUS, Emerging Sources Citation Index	1
28	Iranian Journal of Medical Physics	SCOPUS	1
29	Advances in Multimedia	SCOPUS, Emerging Sources Citation Index	1
30	Health Science Reports	PubMed	1
31	Science Progress	JCR	1
32	Healthcare Analytics		1
33	Neuroscience Informatics		1
34	IOP book chapter	SCOPUS	1