

Curriculum Vitae

1. Personal Particulars



Surname: Mahdavi

First Name: Neda

Degree: PhD in Ergonomics

Scientific Position: Assistant Professor

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2. Contact info:

Department of Ergonomics

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3. Professional Education and Qualifications

- B.Sc (2009) in Industrial Safety Engineering. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- MSc (2013) in Ergonomics. Hamadan University of Medical Sciences, Hamadan, Iran.
Thesis Title: Assessment of ergonomic improvements in upper trapezius muscle fatigue in carpet weaver (dissertated with excellence, scored 19/70, June 2013).
- Ph.D. in Ergonomics. Hamadan University of Medical Sciences, Hamadan, Iran.
Thesis Title: Designing A Macroscopic Model For Upper Limb Muscle Fatigue Of Workers With Manual Tasks (dissertated with excellence, scored 19/70, March 2021).

4. Research and practice areas of interest:

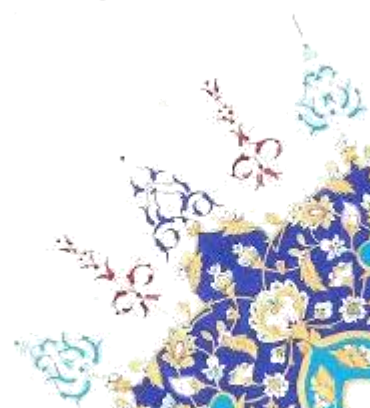
- Occupational fatigue
- Computational Intelligence in Ergonomics
- Participatory Ergonomics

5. Course Teaching BSc, MSc and PhD

- Occupational Biomechanics, Anthropometry, Ergonomics Assessment Methods, Occupational Ergonomics and Work Physiology for MSc students.
- Occupational Ergonomics, Ergonomics and Rehabilitation, Ergonomic Design for BSc students.
- Modeling and simulation in Ergonomics for PhD students.

6. cooperation in journals and conferences

- Member of Center of Excellence for Occupational Health
School of Public Health, Hamadan University of Medical Sciences, 2021- To be continued
- Member of Occupational Health and Safety Research Center
School of Public Health, Hamadan University of Medical Sciences, 2021- To be continued
- Assistant Managing Editor of Iranian Journal of Ergonomics
School of Public Health, Hamadan University of Medical Sciences, 2021- To be continued
- Member of Editorial Board of Iranian Journal of Ergonomics
- Scientific Editor of Journal of Occupational Hygiene Engineering
School of Public Health, Hamadan University of Medical Sciences, 2021- To be continued
- Member of Iranian Ergonomics and Human Factor Society
- Head of "TaraDars Ergonomics" group



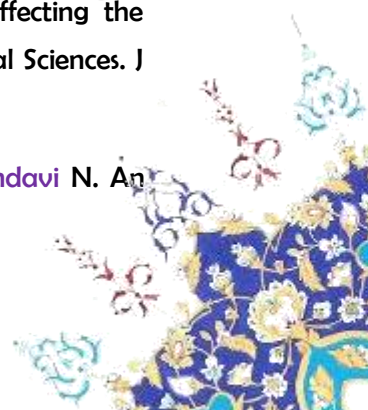
7. Publications:

Journal Papers:

1. Mahdavi N, Faradmali J, Dianat I, Heidarimoghadam R, Khotanlou H. Investigation of hand muscle fatigue and its influential factors in manual tasks. *Int J Occup Saf Ergon*. 2021;28:1–13.
2. Shafiee Motlagh M, Motamedzade M, Mahdavi N, Garkaz A, Soltanian Alir, Motlagh Ms, et al. The Relation between Shift Lengths and Occupational Fatigue Dimensions in Filling Station Operators. *Int J Occup Hyg*. 2015;7:146–52.
3. Sohrabi MS, Mahdavi N. The Effect of Participatory Ergonomic Interventions on the Level of Satisfaction and the Motivating Potential Score of Employees of a Medical Diagnostic Laboratory in Isfahan. *Iran J Ergon*. 2019;7:1–10.
4. Sultanian AR, Motamedzade Torghabe M, Garkaz A, Mahdavi N. Persian version of Swedish Occupational Fatigue Inventory) P-SOFI): validity and reliability. *Iran Occup Heal*. 2014;11:34–43.
5. Darvishi E, Giahi O, Mahdavi N. Comparative Evaluation of Manual Materials Handling Using Snook Tables and National Institute for Occupational Safety and Health Lifting Equation in Stone Cutting Workshops. *J Occup Hyg Eng*. 2018;5:25–34.
6. Aliabadi M, Mahdavi N, Farhadian M, Shafie Motlagh M. Evaluation of noise pollution and acoustic comfort in the classrooms of Hamadan University of medical sciences in 2012. *Iran J Ergon*. 2013;1:19–27.
7. Mahdavi N, Zarei M, Keshvari N, Mohammadi Y, Zarei M, Heidarimoghadam R. Investigating the Physiological Fit of Janitor, Safety Guard and Facility Workers with Their Jobs. *Iran J Ergon*. 2020;8:42–55.
8. Ghasemi F, Mahdavi N. A new scoring system for the Rapid Entire Body Assessment (REBA) based on fuzzy sets and Bayesian networks. *Int J Ind Ergon*. 2020;80:103058.
9. Mahdavi N, Faradmali J, Dianat I, Haidari Moghadam R. Investigating the Relationship Between the Risk of Psychosocial Factors and Grip Fatigue of Employees with Manual Tasks. *Iran J Ergon*. 2020;8:48–58.
10. Mahdavi N, Motamedzade M, Jamshidi AA, Moghimbeigi A, Heidari Moghaddam R. Objective and subjective assessment of upper trapezius muscle fatigue in carpet weaving workers. *Occup Med Q J*. 2013;5:20–9.
11. Sohrabi MS, Mahdavi N, Kalatpour O. Suggestion a Template for Accident Reporting Form. *Int J Occup Hyg*. 2017;9:215–22.



12. Mahdavi N, Dianat I, Heidarimoghadam R, Khotanlou H, Faradmal J. A review of work environment risk factors influencing muscle fatigue. *Int J Ind Ergon*. 2020;80.
13. Heidarimoghadam R, Ranjbar A, Mahdavi N, Shayesteh TH, Faridan M, Tajik L. Urinary Extraction of Oxidative Damage in Carpet Weavers. *Health (Irvine Calif)*. 2014;2014.
14. Mahdavi N, Motamedzade M, Moghimbeigi A, A.A J, Heidarimoghadam R. Effect of One Carpet Weaving Workstation on Upper Trapezius Fatigue. *J Occup Hyg Eng*. 2016;2:25–34.
15. Mahdavi N, Motamedzade M, Jamshidi AA, Darvishi E, Moghimbeygi A, Moghadam RH. Upper trapezius fatigue in carpet weaving: The impact of a repetitive task cycle. *Int J Occup Saf Ergon*. 2018;24:41–51.
16. Darvishi E, Khotanlou H, Khoubi J, Giahi O, Mahdavi N. Prediction Effects of Personal, Psychosocial, and Occupational Risk Factors on Low Back Pain Severity Using Artificial Neural Networks Approach in Industrial Workers. *J Manipulative Physiol Ther*. 2017;40.
17. Mahdavi N, Dianat I. A new look at the occupational fatigue challenge in the future of ergonomics research. *Work A J Prev Assess Rehabil*.
18. Mahdavi N, Khotanlou H, Darvishi M, Faradmal J, Dianat I. Multidimensional Modeling of Physical Fatigue using Soft Computing Intelligence. *J Heal Saf Work*. 2023;13:309–27.
19. Tajik L, Mahdavi N, Faridanm M. Investigating the relationship between maximum aerobic capacity and cognitive ability and employees. *Int J Environ Health Eng*.
20. Solgi F, Heidari Moghadam R, Mahdavi N, Faradmal J, Rahmani Rasa A. Proprioception and endurance of deep neck flexors in different neck postures of mobile phone users. *J Heal Syst Res*.
21. Goudarzi Z, Izadi S, Seifollahzade A, Hassanzadeh R, Mahdavi N. Evaluation of anthropometric fit of faculty members with its office workstation characteristics. *Iran J Ergon*. 2024;11:0.
22. Darestani M, Tapak L, Mirzaie AliAbadi M, Mahdavi N. Psychometrics of an Occupational Cognitive Failures Questionnaire for Heavy Machinery Operators in Road and Urban Construction: A Study of Validity and Reliability. *Iran J Ergon*. 2023;11:190–8.
23. Sarvi M, Seyedi M, Emad Momtaz H, Mahdavi N, Afshari M. Identifying the Opinion of Students, Professors and Educational Managers Regarding the Factors Affecting the Improvement of the Quality of Education in Hamadan University of Medical Sciences. *J Med Educ Dev*. 2024;19:695–706.
24. Aliabadi M, Darvishi E, Farhadian M, Rahmani R, Shafiee Motlagh M, Mahdavi N. An



investigation of musculoskeletal discomforts among mining truck drivers with respect to human vibration and awkward body posture using random forest algorithm. *Hum Factors Ergon Manuf Serv Ind.* 2022;32:482–93.

Books:

1. **Mahdavi N**, Khanlari P, Maleki Ghahfarrokhi A, Abdi H, Ghasemi F. "Ergonomics in Developing Countries". Hamadan University Medical Sciences Center Press and Fanavaran Pulish center (In Farsi), ISBN: 978- 964-650-275-8, Published, Feb 2024.
2. Golmohammadi R, Motamedzade M, **Mahdavi N**. "Occupational Ergonomics". Hamadan University Medical Sciences Center Press and Fanavaran Pulish center (In Farsi), ISBN: 978-964-650-275-8, Published, Dec 2016.
3. Babamiri M, Heidarimoghadam R, Tavakkol MR, Sohrabi MS, **Mahdavi N**. "Cognitive Laboratory". Hamadan University Medical Sciences Center Press (In Farsi), ISBN: 978-622-691-607-3, Published, Dec 2020.
4. Heidarimoghadam R, **Mahdavi N**, Sohrabi MS. "Psychophysiological methods in Ergonomics Assessments". Hamadan University Medical Sciences Center Press and Fanavaran Pulish center (In Farsi), ISBN: 978-600-985-393-9, Published, Dec 2018.
5. Motamedzade M, **Mahdavi N**, Shafiee Motlagh M, Gholami T. "Ergonomics Checkpoint: Practical and easy to implement solutions for improving safety, health and working condistions". Hamadan University Medical Sciences Center Press and Fanavaran Pulish center (In Farsi), ISBN: 978-600-319-039-9, Published, Dec 2014.
6. Mohammadfam I, Gholami T, Karimi S, **Mahdavi N**. "Effective HSE training: Techniques, Games and Exercises". Hamadan University Medical Sciences Center Press and Fanavaran Pulish center (In Farsi), ISBN: 978-964-298-391-9, Published, Dec 2013.

6.Special Honors

- "Shahid Motahhari Festival" prize in Educational Process, Hamadan University of Medical Sciences, Iran, 2024.
- "Qoran Festival" prize in Tazhib, Ministry of Health and Medical Education of Iran, Iran, 2023.
- Top-ranked in national PhD enterance examination for Ergonomics. Oct. 2016."Bonyad Melli Nokhbegan" prize in Elite Student Award, Iran, 2016 and 2017.
- "Simorgh artistic Festival" prize in Negargari (Persian Painting), Ministry of Health and Medical Education of Iran, Iran, 2017.
- "Qoran Festival" prize in Tazhib, Ministry of Health and Medical Education of Iran, Iran, 2018.

