

## CURRICULUM VITAE

Name: Dr. Reza Kazemi, Associate professor

Department of ergonomics, shiraz university of medical sciences.

Email: reza\_kazemi2007@yahoo.com

Cell number and Watts app: +989127360749

### Research Interest

Human factors, cognitive engineering, ergonomics, Human factors in VR/AR, Human factors in transportation

### Technical skills

Ergonomics Physiological assessment (EEG, ECG, EMG, Eye tracking), Human factors methods (mental workload, situation awareness, human error, usability assessment, cognitive task analysis), Cognitive performance assessment (working memory, attention, decision making...), Ergonomics risk assessment and posture analysis (RULA, REBA, QEC, ...), occupational safety risk assessment, qualitative study, systematic review, meta-analysis, experimental design, Data analysis (SPSS and R program).

### Languages

- English
- Persian

### Education

- Ph.D. in Occupational Health and safety engineering, 2016, Hamadan University of Medical Sciences (UMSHA), Iran
- M.Sc. in Occupational Health and safety engineering, 2010, Tehran University of Medical Sciences, Iran.
- BSc. in Occupational Health and safety engineering, 2007, Shahid Beheshti University of Medical Sciences, Iran.

### Work experiences

- Associate professor, of ergonomics, Shiraz University of Medical Sciences (SUMS), School of Health, Department of Ergonomics, Shiraz, Iran (2022- present)
- Researcher (October 2022~ September 2023)- Gyeongsang National University, Human-Centred Technology Lab, South Korea.
- Assistant professor of ergonomics, Shiraz University of Medical Sciences (SUMS), School of Health, Department of Ergonomics, Shiraz, Iran (2017-2022)

### Research

Citation Indices (source: Google Scholar): Since 2017

- Citations (total): 610

- h-index: 14

## Papers

1- Human factors/ergonomics (HFE) evaluation in the virtual reality environment: a systematic review

Reza Kazemi, Lee, S. C

INTERNATIONAL JOURNAL OF HUMAN–COMPUTER INTERACTION

<https://doi.org/10.1080/10447318.2023.2227835> **IF (2021): 4.920**

2- A field study of mental workload: conventional bus drivers versus bus rapid transit drivers

P Piranveysseh, R Kazemi, A Soltanzadeh, A Smith

Ergonomics 65 (6), 804-814 2022 **IF(2021): 2.561**

3- Development and Validation of a Task Load Index for Process Control Room Operators (PCRO-TLX)

Reza Kazemi, Rosanna Cousins, Andrew Smith, Mamood Salesi, Fateme Alibeygian, Hamid Zendehebodi & Hamidreza Mokarami

Ergonomics 2023- **IF (2021): 2.561**

4- Subjective and objective survey of office lighting: effects on alertness, comfort, satisfaction, and safety

RK Zeinab Rasouli Kahaki, Hamid Jahangiri, Andrew P Smith

La Medicina del Lavoro 2022 **IF (2021):2.244**

5- Visual ergonomics, performance and the mediating role of eye discomfort: a structural equation modelling approach

HMAS Hamid Jahangiri, Reza Kazemi

International Journal of Occupational Safety and Ergonomics 2022 **IF (2021): 2.665**

6- Cognitive demands and mental workload: A filed study of the mining control room operators

M Mohammadian, H Parsaei, H Mokarami, R Kazemi\*

Heliyon, e08860 2022 **IF (2021): 3.776**

7- An investigation of the effects of different shift schedules on the fatigue and sleepiness of officers on oil tankers during cargo handling operations

F Azimi Yancheshmeh, SH Mousavizadegan, A Amini, AP Smith, R Kazemi

Ergonomics, 1-30, 2021 **IF (2021): 2.561**

8- The Relationship Between Helmet Weight, Cognitive Performance, and Mental Workload

M Zoaktafi, A Choobineh, M Rostami, R Kazemi\*

Basic and Clinical Neuroscience 12 (6), 759-766, 2021      **Impact Score 2021 (IS): 1.9**

9- Comparison of mental workload with N-Back test: A new design for NASA-task load index questionnaire

M Malakoutikhah, R Kazemi, H Rabiei, M Alimohammadlou, A Zare, ...

International Archives of Health Sciences 8 (1), 7, 2021

10- The Relationship Between the Usability of Research Centers System and Mental Workload Caused By Its Interaction With Users Of Shiraz University Of Medical Sciences

Reza kazemi, AS Jafari Roodbandi, Zynab Rasoli Kahki

Iran Occupational Health 18 (1), 274-284, 2021

11- Designing and usability testing of a new prototype active footrest for knee extension exercise among office workers

M Mohammadian, A Choobineh, M Razeghi, NH Nejad, ..R Kazemi.

International Journal of Occupational Safety and Ergonomics, 1-9 2021    **IF: 2.665**

12- Beyond the Outbreak of COVID-19: Factors Affecting Burnout in Nurses in Iran  
S Zare, R Kazemi, A Izadi, A Smith

Annals of global health 87 (1) 2021    **IF (2021):3.64**

13- Poor sleep quality, long working hours and fatigue in coastal areas: a dangerous combination of silent risk factors for deck officers on oil tankers

FA Yancheshmeh, SH Mousavizadegan, A Amini, AP Smith, R Kazemi

International Maritime Health 71 (4), 237-248, 2020    **IF (2021): 0.245**

14- Multiple environmental and psychosocial work risk factors and sleep disturbances

Mokarami, H., Gharibi, V., Kalteh, H.O., Faraji Kujerdi, M., Kazemi, R.

International Archives of Occupational and Environmental Health, 93(5), pp. 623-633,2020

**IF (2021):2.78**

15- Relationship between mental workload and salivary cortisol levels: A field study

M Zoaktafi, SA Zakerian, A Choobineh, S Nematolahi, R Kazemi

Work, 1-6, 2020    **IF (2021): 1.2**

16- Weighing and modelling factors influencing serum cortisol and melatonin concentration among workers that are exposed to various sound pressure levels using neural network ...

S Zare, R Hemmatjo, H ElahiShirvan, AJ Malekabad, R Kazemi, F Nadri

Heliyon 6 (9), e05044 , 2020(2021) **IF: 3.65**

17- Study of Daytime Lighting at Official Rooms and Its Relation with Cognitive Performance, Alertness, Visual Comfort and Sleep Quality

R Shahidi, R Golmohammadi, Z Pirmoradi Rizevandi, A Soltani, reza kazemi

Iranian Journal of Ergonomics 8 (1), 32-41, 2020

18- The effects of live-fire drills on visual and auditory cognitive performance among firefighters

R Hemmatjo, M Hajaghazadeh, T Allahyari, S Zare, R Kazemi

Annals of global health 86 (1), 2020 **IF: 2.5**

19- Investigating the effect of shifts rotation speed on the pattern of melatonin secretion and sleep among petrochemical control room operators

R Heidarimoghadam, M Motamedzadeh, R Kazemi

journal of Health and Safety at Work, 10(2): 6-10, 2020

20- The effects of blue light filtering on cognitive performance and sleep among night workers

R Kazemi, N Alighanbari, Z Zamanian

Health promotion perspectives 9 (3), 233, 2019

21- Physiological strain and decision making affected by different cooling tactics following live-fire training

R Hemmatjo, S Zare, M Hajaghazadeh, T Allahyari, R Kazemi

Human Factors and Ergonomics in Manufacturing & Service Industries, 2019 **IF: 1**

22- The effects of playing music during surgery on the cognitive performance of the surgical team: A systematic review

P Rastipisheh, A Choobineh, M Razeghi, R Kazemi, H Ghaem, S Taheri, ...

Work 64 (2), 407-412 1, 2019 **IF: 1.03**

23- The effects of noise and heat strain on the work ability index (WAI) among rubber factory workers

R Kazemi, Z Zamanian, M Khalifeh, R Hemmatjo

Annals of global health 85 (1), 2019 **IF (2019): 2.5**

24- Comparison of melatonin profile and alertness of firefighters with different work schedules

Reza Kazemi, Sajad Zare

Journal of Circadian Rhythms 16 (1), 1-7, 2018

25- Comparison of the effect of typical firefighting activities, live fire drills and rescue operations at height on firefighters' physiological responses and cognitive function

S Zare, R Hemmatjo, T Allahyari, M Hajaghazadeh, A Hajivandi, reza kazemi

Ergonomics 61 (10), 1334-1344, 2018 **IF (2018): 2.4**

26- The effect of a blue enriched white light on salivary antioxidant capacity and melatonin among night shift workers: a field study

Reza Kazemi, hamidreza mokarami, rasoul hemmatjo

Annals of Occupational and Environmental Medicine 30 (60), 1-7, 2018

27- Comparing task performance, visual comfort and alertness under different lighting sources: An experimental study

R Kazemi, A Choobineh, S Taheri, P Rastipishe

EXCLI journal 17, 1018, 2018 **IF (2019): 2.54**

28- The effect of blue-enriched white light on cognitive performances and sleepiness of night-shift workers: A field study

M Motamedzadeh, R Golmohammadi, R Kazemi, R Heidarimoghadam

Physiology & behavior 177, 208-214 47, 2017 **IF (2016): 2.5**

29- Field study of effects of night shifts on cognitive performance, salivary melatonin, and sleep

R Kazemi, M Motamedzade, R Golmohammadi, H Mokarami, ...

Safety and health at work 9 (2), 203-209, 2018 **IF (2017): 1.8**

30- The effects of consecutive night shifts and shift length on cognitive performance and sleepiness: a field study

R Haidarimoghadam, R Kazemi, M Motamedzadeh, R Golmohamadi, ...

International Journal of Occupational Safety and Ergonomics 23 (2), 251-258, 2017 **IF (2017): 1.5**

31- A survey of the relationship between the mental workload and cognitive failure in taxi drivers, 2017

R Kazemi, S Karimpour, M Shahriyari, SN Hossaini

Journal of Health Sciences & Surveillance System 5 (4), 188-192, 2017

32- Effects of shift work on cognitive performance, sleep quality, and sleepiness among petrochemical control room operators

R Kazemi, R Haidarimoghadam, M Motamedzadeh, R Golmohamadi, ...

### Ongoing Research Projects

- 1- Cognitive and physical demand during VR environment immersion: Bio signal (EEG, ECG and EMG) study (2022-2023)

**Funded by: the ministry of science and ICT (MSIT) and national research foundation of Korea (NRF)**

- 2- Effects of target size and amplitude on click and drag-and-drop tasks on performance and workload in a Virtual Reality Context (2022)

**Funded by: the ministry of science and ICT (MSIT) and national research foundation of Korea (NRF)**

- 3- A Neuroergonomics-based study of cognitive failure among drivers (2022)

**Funded by Shiraz University of Medical Sciences, Shiraz, Iran**

- 4- Modeling performance, fatigue and workload of city bus drivers using statistical models (2021-2022)

**Funded by: Shiraz University of Medical Sciences, Shiraz, Iran**

- 5- Determining the most appropriate typography methods and colour coding of LASA drugs based on the principles of human factors (2020-2022)

**Funded by: Shiraz University of Medical Sciences, Shiraz, Iran**

- 6- Study the Occupational burnout in Arya Sasol Petrochemical company (2019-2023)  
Funded by Arya Sasol Petrochemical company, Assalueh, Iran

### Teaching experience

- ✓ **Human factors engineering** for BSc student (2016- Present). Department of occupational Health, SUMS, Shiraz, Iran.

**Description:** The course focuses on a variety of human factors and ergonomics issues in the workplace, such as human information processing, mental workload assessment, occupational biomechanics, human error, engineering anthropometry, cumulative trauma disorders, stress, burnout, macro ergonomics and workspace design.

- ✓ **Human factors engineering** for MSc student (2016- Present). Department of occupational Health, SUMS, Shiraz, Iran.

**Description:** In this module, human information processing, cognitive performance assessment, and mental workload are learned and demonstrated as tools that can be used in the design of any provision of safe workplaces.

- ✓ **Human factors engineering** for BSc student (2013-2015). Department of occupational Health, Health School, SUMS, Hamadan, Iran.

**Description:** The course focuses on a variety of human factors and ergonomics issues in the workplace, such as human information processing, mental workload assessment, occupational

biomechanics, human error, engineering anthropometry, cumulative trauma disorders, stress, burnout, macro ergonomics and workspace design.

- ✓ **Human performance assessment** for PhD students (2017- 2023). Department of Ergonomics, Health School, SUMS, Shiraz, Iran.

**Description:** This course focuses on human performance models in a critical safety environment, describing human performance measures, safety, human errors, and human reliability in these environments.

- ✓ **Cognitive engineering** for PhD students (2017- 2023). Department of Ergonomics, Health School, SUMS, Shiraz, Iran.

**Description:** In this module, knowledge from human information processing research, cognitive functions, cognitive science including cognitive modelling, and human factors is combined and integrated to show how this can be used in the design of technological systems.

- ✓ **Design of experimental studies** for PhD students (2017- 2023). Department of Ergonomics, SUMS, Shiraz, Iran.

**Description:** The course objective is to learn how to plan, design, and conduct experiments efficiently and effectively and analyse the resulting data to obtain objective conclusions in human factors and ergonomics studies.

- ✓ **Environmental ergonomics** for MSc student (2019-2023) , Department of Ergonomics, SUMS, Shiraz, Iran.

**Description:** The principles, methods and models used in environmental ergonomics are provided in terms of the effects of heat and cold, vibration, noise and light on the health, comfort and performance of people.

- ✓ **Cognitive ergonomics** for MSc students (2016 - 2023). Department of Ergonomics, SUMS, Shiraz, Iran.

**Description:** This course presents a framework of the human information process, describes cognitive functions and cognitive performance assessment, and goes on to consider how we can use this knowledge to improve human performance, safety, and well-being.

- ✓ **Occupational health and safety** for BSc student (2011-2012). Department of environmental and public health, BUMS, Bushehr, Iran

**Description:** Occupational hazards such as physical agents (noise, vibration, heat, radiation, etc.) and chemical agents (dust, gases, vapor, mist, solvents, etc.), and psychological agents (stress, burnout, anxiety, fatigue, etc.) are learned, and various subjects about safety at work are covered in this course.

### Laboratory sessions taught

- ✓ **Anthropometry and work physiology lab.** for Bs, MSc and PhD student (2016-2017). Department of Ergonomics, Health School, Shiraz University of Medical Sciences, Shiraz, Iran.

**Description:** In this laboratory session, students will become acquainted with and work with human dimensions devices such as anthropometers, callipers, anthropometry kits, and Stadiometers and measure heartbeat, skin conduction, muscle tension, or blood pressure.

- ✓ **Posture analysis lab.** For Bs, MSc and PhD student (2016-2022). Department of Ergonomics, Health School, Shiraz University of Medical Sciences, Shiraz, Iran.

**Description:** In this laboratory session, students will become acquainted with and practice with posture analysis methods such as REBA, RULA, NIOSH 1991, QEC, and so on.

- ✓ Neuroergonomics methods (EEG, HRV, ...) for MSc and PhD student (2016-2017). Department of Ergonomics, Health School, Shiraz University of Medical Sciences, Shiraz, Iran.

**Description:** In this laboratory session, students will become acquainted with and practice ergonomics physiological assessment methods such as EEG and ECG, dermal activity, and EMG, ...

- ✓ **Cognitive function assessment** for MSc and PhD student (2016-2017). Department of Ergonomics, Health School, Shiraz University of Medical Sciences, Shiraz, Iran.

**Description:** In this laboratory session, students will become acquainted with and practice working memory tests, attention tests, problem-solving tests, etc.

### Book chapters

Kazemi R. Neuroergonomics. In: choobineh AR, Daneshmandi H, editors. Essentials of ergonomics and human factors

Kazemi R. Cognitive task analysis. In: choobineh AR, Daneshmandi H, editors. Essentials of ergonomics and human factors

Kazemi R. Application of electroencephalography in ergonomics. In: choobineh AR, Daneshmandi H, editors. Essentials of ergonomics and human factors

Kazemi R. Cognitive workload assessment. In: choobineh AR, Daneshmandi H, editors. Essentials of ergonomics and human factors

Kazemi R. shift work and non visual effects of light. In: choobineh AR, Daneshmandi H, editors. Essentials of ergonomics and human factors

### Conference presentations

Morning work: Is the early start of work affecting cognitive performance and sleep? presented at The 3th International Conference on ergonomics - University of shiraz – shiraz, Iran,2021

Cognitive demands and mental workload: A filed study of the mining control room operators presented at The 3th International Conference on ergonomics - University of shiraz – shiraz, Iran,2021

The Effect of Music on Working Memory Performance in Simulated Open-Plan Offices

presented at The 3th International Conference on ergonomics - University of shiraz – shiraz, Iran,2021

Comparison of the effect of typical firefighting activities, live fire drills and rescue operations at height on firefighters' physiological responses and cognitive function



presented at The 2th International Conference on ergonomics - University of Tehran – Tehran, Iran,2019

Physiological strain and decision making affected by different cooling tactics following live-fire training

presented at The 2th International Conference on ergonomics - University of Tehran – Tehran, Iran,2019

The effect of blue light on cognitive function, drowsiness and melatonin at night Employees of Petrochemical Industry Control Rooms: Field study

presented at The 1th International Conference on ergonomics - University of Tehran – Tehran, Iran,2017

Effect of Consecutive Night Shifts on Cognitive Performance and Drowsiness: A Field Study in Petrochemical Control Room Operators

presented at the 1th International Conference on ergonomics - University of Tehran – Tehran, Iran,2017

#### memberships / affiliations

Associate professor of ergonomics at shiraz university of medical sciences

Senior researcher in Human-Centred Technology Lab, Gyeongsang National University, south Korea

Vice president of Iranian ergonomics and human factors society (2021- present)

Technical committee of visual ergonomics, International Ergonomics Association

Iranian Association of ergonomics and human factors

Iranian Association of occupational health

Executive chief of 3th international human factors and ergonomics conference, shiraz, Iran (2021)

#### The workshop participated

Quantitative evaluation of electroencephalography (QEEG), Parand Co. Tehran

Research fellowship, Shiraz University of Medical Sciences (4 months)

Educational fellowship, Shiraz University of Medical Sciences (2 months)

Human reliability, National Petrochemical Company

