C.V

Mohammed Hatem Alhaag

Assistant Professor in Human Factor Engineering and Safety

Home & Mailing Address: Industrial Engineering Department., College of Engineering,

King Saud University, Saudi Arabia

Iqama Number: 2313089480 (Transferable)

E-mail: inengmohamed@yahoo.com

malhaag@ksu.edu.sa

Phone : +966-559034918.

Google scholar: https://scholar.google.com/citations?hl=ar&user=rbxw4EMAAAJ

Researchgate: https://www.researchgate.net/profile/Mohamed-Alhaag

Known Languages: Arabic and English (both perfect).

I. EDUCATIONAL QUALIFICATIONS

2017 – 3.Oct.2022: Ph.D. in Industrial Engineering (Human Factor

Engineering and Safety, King Saud University, Saudi Arabia, Grad Excellent, Cumulative GPA: 4.92/5. Thesis entitled" Evaluation of Augmented Reality in Maintenance and Assembly Task Training using Human Factor

Approaches".

2012-2016: M.Sc. in Industrial Engineering, (Human System

Engineering), King Saud University, Saudi Arabia. Grad Excellent, Cumulative GPA: 92.60%. Thesis entitled" Investigating the Effects of Watching 2D and 3D Displays

from Different Distances on Visual Fatigue"

2005- 2010: B.Sc. In Industrial and Manufacturing Systems Engineering,

Taiz University, Taiz, Yemen. Grad very good, Cumulative

GPA: 82.64%, ranking three.

II. AREAS OF INTERESTS

- Human Factors Engineering
- Advanced Ergonomics
- Safety Engineering
- Safety Systems and Accident Analysis
- Occupational Biomechanical
- Work Design and Analysis
- Design & Analysis of Experiments
- Operation Research 1&2
- Industrial Operation Management 1 &2
- Industrial Facility Planning, Design and Material Handling
- Product Design & Development

III. PROFESSIONAL EXPERIENCE

Teaching Experience:

2011- Now Teaching Assistant in Ind. Eng. Dept., Faculty of

Engineering, King Saud University.

Responsibilities include:

Teaching tutorials and labs for Occupational Biomechanics, Advanced Applications in Human Factors, Safety Systems and Accident Investigations, Experimental Design, Human Factors Engineering, Production Planning & Control, and

Motion and Time Study.

Administration Works

<u>2012-2016</u> Member of the Practical Training Committee in the Industrial

Engineering Department.

<u>2016-2018</u> Member of the Statistics and Information Committee in

IndustrialEngineering Department.

<u>2018-2022</u> Member of the Accredation Committee in IndustrialEngineering

Department.

Reviewer

Reviewer for International Journal of Industrial Ergonomics

Reviewer for IEEE Access Journal Reviewer for Computer Journal

V. PUBLICATIONS:

A. Papers in Press

- **1.** Alhaag, M. H.., Al-harkan, I. M., Alessa, F. M.., Ramadan, M. Z "Evaluation of the Cognitive Workload during Augmented Reality Interactions in Maintenance and Assembly Task," Journal of Manufacturing systems.
- **2. Alhaag, M. H...**, Alessa, F. M., Al-harkan, I. M., Ramadan, M. Z "Evaluation of the Physical Stress Associated with Augmented Reality Interactions using Heart Rate Variability responses" IEEE Transactions on Multimedia Journal.
- **3.** Alhaag, M. H.., Alessa, F. M., Al-harkan, I. M., Ramadan, M. Z "Fatigue and Activities of the Upper Arm and Neck Muscles during Augmented Reality Interactions" Journal of Industrial Information Integeration.
- **4. Alhaag, M. H.**, Al-harkan, I. M., Ramadan, M. Z, and Alessa, F. M. "Evaluation of the Short and Long Term Retention for the AR-Based Instruction with Different Maintenance Task Complexity," Applied Ergonomics Journal..

B. Paper Published in ISI Journals

- 1. **Alhaag, M. H.**, Ramadan, M. Z., Al-harkan, I. M., Alessa, F. M., Alkhalefah, H., Abidi, M. H., & Sayed, A. E. (2022). Determining the fatigue associated with different task complexity during maintenance operations in males using electromyography features. *International Journal of Industrial Ergonomics*, 88, 103273.
- 2. Ramadan, M. Z., Al-Tayyar, S. N., **Alhaag, M. H.**, Soliman, A. T., & Abdelgawad, A. E. (2022). Evaluation of an ergonomically designed schoolbag: Heart rate variability and body discomfort rating. *Work*, (Preprint), 1-14.
- 3. **Alhaag, M. H.**, Ghaleb, A. M., Mansour, L., & Ramadan, M. Z. (2021, November). Investigating the Immediate Influence of Moderate Pedal Exercises during an Assembly Work on Performance and Workload in Healthy Men. In *Healthcare* (Vol. 9, No. 12, p. 1644). MDPI.
- 4. Khalaf, T. M., Ramadan, M. Z., Ragab, A. E., **Alhaag, M. H.**, & AlSharabi, K. A. (2021). Psychophysiological responses to manual lifting of unknown loads. *PloS one*, *16*(2), e0247442.
- 5. Ramadan, M. Z., Nasr, M. M., Dabwan, A. A., Khalaf, T. M., **Alhaag, M. H.**, Soliman, A. T., & Abdelgawad, A. E. (2019). Evaluation of holding handheld scanner on muscle activity, heart rate variability, and model accuracy in industrial applications. *International Journal of Industrial Ergonomics*, 74, 102873.
- 6. Ramadan, M. Z., & **Alhaag, M. H**. (2018). Evaluating the user physical stresses associated with watching 3D and 2D displays over extended time using heart rate variability, galvanic skin resistance, and performance measure. *Journal of Sensors*, 2018.
- 7. Z. Ramadan, M., H. Alhaag, M., & Haider Abidi, M. (2017). Effects of viewing displays from different distances on human visual system. *Applied Sciences*, 7(11), 1153.
- 8. **Alhaag, M. H.,** & Ramadan, M. Z. (2017). Using electromyography responses to investigate the effects of the display type, viewing distance, and viewing time on visual fatigue. *Displays*, 49, 51-58.

C. Paper Published in Conferences Proceedings

- 1. **Alhaag, M. H.**, Aziz, T., & Alharkan, I. M. (2015, March). A queuing model for health care pharmacy using software Arena. In 2015 International Conference on Industrial Engineering and Operations Management (IEOM) (pp. 1-11). IEEE.
- 2. Alharkan, I. M., Aziz, T., & Alhaag, M. H. M. (2015, March). Minimization of earliness & Tardiness penalties with common due dates problem using Tabu search. In 2015 International Conference on Industrial Engineering and Operations Management (IEOM) (pp. 1-12). IEEE.
- 3. **M.H. Alhaag** and Aziz, T (2013)"Minimizing Earliness and tardiness penalties with common due dates scheduling Problem "King Saud University Fourth Scientific Symposium.
- 4. **M.H. Alhaag** and Aziz, T (2013) "Research paper on "Simulating King Khalid University Outpatient Hospital Pharmacy" Fourth Scientific Conference Mecca".

VI. HONORS AND AWARDS

- Obtained 5th position in King Saud University Tenth Scientific Symposium entitled in Research on "Lifting Unknown Weight Increases Physical and Mental Demand and May Lead to Fatigue and Injuries".
- Obtained 5th position in King Saud University Fourth Scientific Symposium entitled in Research on "Minimizing Earliness and Tardiness Penalties with common Due Dates Scheduling Problem".
- Obtained 4th position in Fourth scientific conference in Mecca" Simulating queuing system of King Khalid University hospital using Arena software".

VII. Skills

- Computer Skills:
 - Application Programs:
 - MS Office (Word, Excel, PowerPoint, Access & Outlook).
 - Computer Languages:
 - MAT LAB Languages, C++, and Java Script
 - Industrial Engineering Deign Programs:
 - Solid work, AutoCAD, and Creo perimetric.
 - 3D Animation & Rendering
 - Creo Illustrate
 - Simulation Programs:
 - Arena Software.
 - Statistical Programs:
 - Minitab software, SPSS software., and Easyfit software
 - Signal Recording and Analyzing Programs:
 - Megawin 3.1.1b software, Brain Viion Recordeer, and Analyzer 2
 - AR and VR application development
 - Vuforia Studio, Engine and Unity.
- Personal Skills
 - Great Verbal Communication
 - Good Commercial Awareness
 - Analyzing and Investigating Ability for problems and opportunity.
 - Initiative
 - Planning & Organizing
 - Decision-Making and Action Planning
 - Creative Leadership.

References: