SALEM NAEERI

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EDUCATION

Ph.D., Industrial & Systems Engineering   **2020**
University of Oklahoma, USA
- Thesis: Multimodal Analysis of Pilots' Fatigue During a Multi-Phase Flight Mission

M.S., Engineering Management   **2006**
Coventry University, United Kingdom
- Thesis: Implementation of Total Quality Management in Libyan manufacturing organizations

B.Tech, Aircraft Maintenance Engineering   **1994**
Civil Aviation and Meteorology Higher Institute, Libya

PROFESSIONAL EXPERIENCE

ADJUNCT PROFESSOR
Midwestern University, Texas, USA   *January 2024 – Present*
  Teach courses on Innovation, Safety Technology, and Energy Technology.

ADJUNCT PROFESSOR
Langston University, Oklahoma, USA   *August 2024 – Present*
  Teach courses on Business Planning, Introduction to Computer Information Processing, and Management Science.

POST-DOCTORAL RESEARCHER
University of Oklahoma, USA   **2020-2022**
Developed non-text-based smart learning in multi-person VR using eye movements, brain activities, and haptic interactions.

- Implemented a thorough and systematic approach to classify various research methodologies that apply virtual reality-based resources in the field of education.

GRADUATE RESEARCH ASSISTANT
University of Oklahoma, USA   **2014-2020**

Analyzed the effect of expertise on the task performance of pilots in a simulated long flight mission. This study included:

- Investigating differences in eye movement characteristics between novice and experienced pilots during normal and adverse flight conditions (instrument failure scenarios).

- Examining changes in fatigue levels among pilots with varying expertise during a multi-segment flight task (multiple takeoffs and landings).
- Exploring the relationship between pilot fatigue (measured using traditional metrics like reaction time, false starts, and number of lapses) and eye movement attributes.

Predicting pilot fatigue using eye movement measures.

- Conducted an experiment with expert and novice pilots, involving a simulated long-haul flight scenario with multiple takeoff and landing tasks.
- Developed stepwise regression model where pilots' eye movement attributes are used to predict their fatigue levels, with high overall model accuracy around 75%.

ASSISTANT LECTURER

Technical College of Civil Aviation and Meteorology, Libya   **2009-2013**

Taught courses:
- Applied Ergonomics
- Cognitive engineering
- Environmental Safety Management
- Statistics I
- Statistics II
- Engineering Statistics I
- Engineering Statistics II
- Algebra with Applications
- Calculus I
- Human Factors in Aircraft Maintenance
- Aviation Legislation and Regulations
- Aviation Management:
- Aircraft Materials and Hardware, I and II
- Statistical Analysis System Design
- Lean Manufacturing Operation and Design
- Systems Engineering

QUALITY CONTROL SPECIALIST

New Orbit Telecom Company, Tripoli, Libya   **2007-2009**

- Participated in the business renovation project with Sofrecom to enhance and implement the operations map framework in the New Orbit Company.
- Participated in developing the Quality Management Systems' plan "Develop FMEA and risk analyses plan for New Orbit Company.

AWARDS & CERTIFICATES

- **Libyan-North American Scholarship Program**   **2014-2020**
  Libyan Ministry of Higher Education and Scientific Research

- **The Libyan British Scholarship Program**   **2004-2006**
  Libyan Ministry of Higher Education and Scientific Research

- **Public Management and Leadership**   **2012**
  London School of Economics, London, UK

- **Strategic Thinking: A Macro and Micro Perspective**   **2012**
  London School of Economics, London, UK

- **Robberson Conference Presentation & Creative Exhibition Travel Grant**   **2019**
  University of Oklahoma, USA

PUBLICATIONS

JOURNALS

1. Naeeri, S. M., Kang, Z., & Palma Fraga, R. (2022). Investigation of Pilots' Visual Entropy and Eye Fixations for Simulated Flights Consisted of Multiple Take-Offs and Landings. Journal of Aviation/Aerospace Education & Research, 31(2). Retrieved from https://commons.erau.edu/jaaer/vol31/iss2/2

2. Naeeri, S., Kang, Z., Mandal, S., Kim, K. Multimodal Analysis of Eye Movements and Fatigue in a Simulated Glass Cockpit Environment. Aerospace 2021, 8, 283. **https://doi.org/10.3390/aerospace8100283**

CONFERENCE

1. **Naeeri, S.**, Mandal, S. & Kang, Z (2019). Analyzing pilot fatigue for prolonged flight mission: Multimodal analysis approach using vigilance test and eye tracking. In Proceedings of the Human Factors and Ergonomics Society 63rd Annual Meeting, Oct. 28- Nov. 1, Seattle, WA.

2. **Naeeri, S.**, & Kang, Z. (2018). Exploring the relationship between pilot's performance and fatigue when interacting with cockpit interfaces. In Proceedings of the 2018 Institute of Industrial and Systems Engineers (IISE) Annual Conference (pp. 1-5), May 19-22, Orlando, FL.

3. **Naeeri, S.**, Mandal, S., & Kang, Z (2018). Exploring the effect of fatigue on pilot performance during single and multi-takeoffs and landings flight missions. In Proceedings of the 7th Annual World Conference of the Society for Industrial and Systems Engineering, Binghamton, NY, USA.

4. **Naeeri, S.**, & Kang, Z. (2017). Analysis of Pilot's Visual Scanning Characteristics under Normal and Extreme Flight Conditions. In Proceedings of the 6th Annual World Conference of the Society for Industrial and Systems Engineering, Herndon, VA.

SKILLS

Data Analytics
- Statistical modelling and analysis, Regression (linear and non-linear), Clustering, Hypothesis testing, ANOVA, MANOVA, Optimization, Visualization

Programming
- R, Python, SAS, SPSS, Minitab, AweSim, APIS IQ-Software (IQ: Integrated Quality), Arena

Specialty
- Eye Tracking (Tobii Studio, Tobii Pro Analysis), Mixed-Methods Study, Human Factors, Experimental Design and Analysis

PROFESSIONAL SERVICE

Membership
2022- current Member of Puget Sound Human Factors and Ergonomics Society (PSHFES).
2022- current Member of Institute of Industrial and Systems Engineers (IISE).
2019- current Member of Human Factors and Ergonomics Society (HFES).
2022-current Member of Human Factors and Ergonomics Society Europe Chapter (HFES EC)

Journal and Conference Paper Reviewer
2021-current. Reviewer for the International Journal of Aerospace Psychology.
2022- current. Reviewer for the Engineering Management Journal.
2022-current. Reviewer for the Researcher Academy.
2022-current. Reviewer for Annual Meeting of the Human Factors and Ergonomics Society.
2022-current. Reviewer for the HFES International Annual Meeting - Health Care.
2022-current. Reviewer for the Science Publishing Group- Industrial Engineering (IE)

REFERENCES

- **Dr. Ziho Kang**
  Associate Professor, School of Industrial & Systems
  Engineering
  Email: **zihokang@ou.edu**
  Website:https://www.ou.edu/coe/ise/people/ziho-kang

- **Prof. Randa Shehab**
  Professor, School of Industrial & Systems Engineering
  Associate Dean for Academic Affairs, Gallogly College of Engineering
  Nettie Vincent Boggs Professor, School of Industrial Systems Engineering
  Email: **rlshehab@ou.edu**
  Website:https://www.ou.edu/coe/ise/people/randa_l_shehab

- **Prof. Theodore B. Trafalis**
  Professor, School of Industrial & Systems Engineering
  E-mail: **ttrafalis@ou.edu**
  Tel: (405) 325-3721