CURRICULUM VITA

Faisal M. Alessa

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Faisal Alessa is an assistant professor in the Industrial Engineering Department at King Saud University (KSU), Riyadh, Saudi Arabia. He received his B.S. in Industrial Engineering from KSU, Riyadh, Saudi Arabia, and M.S. and Ph.D. in Industrial Engineering from West Virginia University (WVU), WV, USA. His research interests include ergonomics design, human-machine interaction, and occupational health and safety.

Education:

- Ph.D., Department of Industrial & Management Systems Engineering, West Virginia University, USA (2020)
- M.S., Department of Industrial & Management Systems Engineering, West Virginia University, USA (2015)
- B.S., Department of Industrial Engineering, King Saud University, KSA (2011)

Work Experience:

- Assistant Professor at the Department of Industrial Engineering, King Saud University, KSA (03/2021 - Present)
- Chairman of the "fire protection committee" in the Saudi Standards, Metrology and Quality Organization (06/2021 - Present)
- Lecturer at the Department of Industrial Engineering, King Saud University, KSA (02/2019 - 03/2021)
- Demonstrator at the Department of Industrial Engineering, King Saud University, KSA (12/2011 - 02/2019)

Publications:

- **Alessa, F. M.,** & Sosa, E. M. (2022). Experimental evaluation of impact-resistant gloves using surrogate hands. International Journal of Occupational Safety and Ergonomics, 1-13.
- 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.
- Sosa, E. M., **Alessa, F. M.** (2021). Experimental Evaluation of Protected and Unprotected Hands under Impact Loading. *Journal of Biomechanics.*
- **Alessa, F. M.,** Nimbarte, A. D., & Sosa, E. M. (2020). Incidences and severity of wrist, hand, and finger injuries in the U.S. mining industry. *Safety Science.*
- **Alessa, F.**, & Ning, X. (2018). Changes of lumbar posture and tissue loading during static trunk bending. *Human movement science.*

Conference Contributions:

- **Alessa, F. M.,** & Ning, X. (2018). Lumbar Range of Motion and Flexion Relaxation Phenomenon Onset During Static Trunk Bending Postures. *In Proceedings of the Human Factors and Ergonomics Society Annual Meeting.*
- Ning, X., Almuhaidib, I., **Alessa, F**. & Madinei, Saman & Zolghadr, Mohammad. (2017). Safety and health improvement in a cokemaking facility. Iron and Steel Technology.
- **Alessa, F. M.**, & Ning, X. (2016). Lumbar Posture and Tissue Loading During Short-Term Static Posture Holding. *In Proceedings of the Human Factors and Ergonomics Society Annual Meeting.*
- Ning, X., **Alessa, F.**, Almuhaidib, I. & Madinei, Saman. (2016). Ergonomic improvements applied in a steel manufacturing facility. Iron and Steel Technology Conference Proceedings.
- Ning, X., Hu, Boyi, Almuhaidib, I. & **Alessa, F.** (2015). Ergonomic interventions for steel manufacturing workers. Iron and Steel Technology Conference Proceedings.

Honors:

- Recognized as the second-place winner in the poster program on the Society for the Advancement of Material and Process Engineering symposium. USA (2019).