Hamoud Sultan Bin Obaid, Ph.D.

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د. حمـود سلطـان بن عبيد

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BIOGRAPHY

Dr. Hamoud Bin Obaid is currently an Assistant Professor at King Saud University, Riyadh, Saudi Arabia. He received a B.S. degree in Industrial Engineering from King Saud University, an M.S. degree in Industrial Engineering from the University of Pittsburgh, Pittsburgh, PA, and received a Ph.D. degree in Industrial and Systems Engineering from the University of Oklahoma, Norman, Oklahoma. His research interest is in the area of Operations Research. More specifically, in mathematical programming and multicriteria optimization. His current work is in the field of fairness in resource allocation, the optimization of flow networks, and the decision making in general.

EDUCATIONAL QUALIFICATIONS

- **University of Oklahoma - Gallogly College of Engineering – Industrial and Systems Engineering**
  Ph.D.'s Degree in Industrial and Systems Engineering   *2015 - 2020*
- **University of Pittsburgh - Swanson School of Engineering - Industrial Engineering**
  Master's Degree in industrial engineering   *2013 - 2015*
- **King Saud University – College of Engineering - Industrial Engineering**
  Bachelor's degree in industrial engineering   *2006 - 2011*

PROFESSIONAL EXPERIENCE

- Assistant professor, Industrial Engineering, King Saud University   *2020 – present*
- Lecturer, Industrial Engineering, King Saud University   *2018 – 2020*
- Teaching assistant, Industrial Engineering, King Saud University   *2011 – 2018*

PUBLICATIONS

- Obaid, H. B., & Trafalis, T. B. (2017). Linear Max-Min Fairness in Multi-commodity Flow Networks. In *International Conference on Network Analysis* (pp. 3-10). Springer, Cham.

- Bin-Obaid, H. S., & Trafalis, T. B. (2020). Fairness in Resource Allocation: Foundation and Applications. In *International Conference on Network Analysis* (pp. 3-18). Springer, Cham.

- Obaid, H. S. B., & Trafalis, T. B. (2020). An approximation to max min fairness in multi commodity networks. *Computational Management Science*, *17*(1), 65-77.

- Alkahtani, M., Abidi, M. H., Obaid, H. S. B., & Alotaik, O. (2023). Modified Gannet Optimization Algorithm for Reducing System Operation Cost in Engine Parts Industry with Pooling Management and Transport Optimization. *Sustainability*, *15*(18), 13815.

- Bin Obaid, H. B. (2023). Direct Progressive Filling Algorithm to Find Max-Min Fairness in Non-convex Structure Problems. *IEEE Transactions on Network Science and Engineering*, Under Review.

- Almoghathawi, Y. A., Bin Obaid, H. S., & Selim, S. Z. (2024). Optimal Location of Base Stations for Cellular Mobile Network Considering Changes in Users Locations. *Journal of Engineering Research*.

- Bin Obaid, H. B. (2023). Double Direct Progressive Filling Algorithm to Find the Double Mmf Nurse Schedule at a Pediatric Intensive Care Unit. *Journal of Engineering Research*.

CONFERENCES_____

- INFORMS Annual Meeting, Nashville, Tennessee   *2016*
- INFORMS Annual Meeting, Houston, Texas   *2017*
- INFORMS Annual Meeting, Phoenix, Arizona   *2018*

TEACHING_____

- IE222 Industrial Operations Analysis (Operations Research I)
- IE420 Industrial Systems Simulation

AWARDS_____

- Best dissertation award by the ISE department, University of Oklahoma   *2020*
- Best capstone project by the Industrial Engineering department, King Saud University   *2011*

MEMBERSHIPS_____

- A member of the Saudi Council of Engineers
- A member of the Institute for Operations Research and Management Science