Curriculum Vitae (CV)

Full Name

Iman Mohamad Sharaf

Personal Information:

Academic Rank: Associate Professor

Department: Basic Science

Specialization: Engineering Mathematics

Position: Associate professor

Google Scholar: scholar.google.com/citations?hl=en&user=226xR_gAAAAJ

Research Gate: www.researchgate.net/profile/Iman-Sharaf-2

ORCID Record: 0000-0002-0878-5696

Scopus ID: 17435789800

Email   iman_sharaf@hti.edu.eg

Mobile/WhatsApp: +20/ 01063075719

Education:

Degree	Discipline	Institution	Year
Ph.D.	Engineering mathematics	CAIRO UNIVERSITY	2008
M.Sc.	Engineering mathematics	CAIRO UNIVERSITY	1999
B.Sc.	Electronics and Communications Engineering	CAIRO UNIVERSITY	1991

Academic Experience:

Institution: HTI

Rank: **Associate Professor**

Dates: **2020-Present**

Institution:

Rank: **Assistant Professor**

Dates: **2008-2020**

Institution:

Rank: **Research Assistant (PhD student)**

Dates: **1999-2007**

Institution:

Rank: **Teaching Assistant**

Dates: **1993-1998**

Research interests:

Mathematical programming, Soft Computing Techniques, Fuzzy logic, Computational Intelligence, Multiple-Criteria Decision Making

Publications

- Hassan, A. S. O., Abdel-Malek, H. L. and Sharaf, I. M., "An exterior point algorithm for some linear complementarity problems with applications", *Engineering Optimization*, Vol. 39, No.6, pp. 661-677, September 2007.
- Khalil, E. A., Sharaf, I. M., "The Impact of Organizational Justice on Teachers' Work Related Outcomes in Egypt with an Integer Programming Model", *American Journal of Economics and Business Administration*, Vol. 6, No. 4, p.p. 148-158, 2014.
- Sharaf, I. M., "An active set algorithm for a class of LCPs arising from rigid body dynamics". *Pakistan Journal of Statistics and operational Research*, Vol. 12, No. 2, 339-352, 2016.
- Sharaf, I. M., "A projection algorithm for positive definite linear complementarity problems with applications", *International Journal of Management Science and Engineering Management*, Vol. 12, iss. 2, pp. 141-147, 2017.
- Sharaf, I. M., "A new approach for robot selection in manufacturing using the ellipsoid algorithm", *Journal of Industrial Engineering International,* Vol. 14, pp. 383-394, 2018.
- Sharaf, I. M., "TOPSIS with similarity measure for MADM applied to network selection", *Computational and Applied Mathematics*, Vol. 37, Iss. 4, pp 4104–4121, 2018.
- El-Sawah, G., Sharaf, I. M., "Optimization of an automated smoke control system in an industrial atrium", *International Journal of Petrochemical Science and Engineering*, Vol. 4, Iss. 1, PP. 25-36, 2019.
- Sharaf, I.M. Supplier selection using a flexible interval-valued fuzzy VIKOR. Granul. Comput. 5, 485–501 (2020). https://doi.org/10.1007/s41066-019-00169-3.
- Sharaf, I. M., "An interval type-2 fuzzy TOPSIS using the extended vertex method for MAGDM" *SN Applied Sciences*, doi:10.1007/s42452-019-1825-1.
- Sharaf, I.M. (2021). Spherical Fuzzy VIKOR with SWAM and SWGM Operators for MCDM. In: Kahraman, C., Kutlu Gündoğdu, F. (eds) Decision Making with Spherical Fuzzy Sets. Studies in Fuzziness and Soft Computing, vol 392. Springer, Cham.
- Sharaf, I.M. (2021). Global Supplier Selection with Spherical Fuzzy Analytic Hierarchy Process. In: Kahraman, C., Kutlu Gündoğdu, F. (eds) Decision Making with Spherical Fuzzy Sets. Studies in Fuzziness and Soft Computing, vol 392. Springer, Cham.
- Sharaf, I.M. (2021). Evaluating Geothermal Energy Systems Using Spherical Fuzzy PROMETHEE. In: Kahraman, C., Kutlu Gündoğdu, F. (eds) Decision Making with Spherical Fuzzy Sets. Studies in Fuzziness and Soft Computing, vol 392. Springer, Cham.
- Sharaf, I.M. (2021). A Novel Pythagorean Fuzzy MULTIMOORA Applied to the Evaluation of Energy Storage Technologies. In: Garg, H. (eds) Pythagorean Fuzzy Sets. Springer, Singapore.
- Galahom, A. A., & Sharaf, I. M. (2021). Finding a suitable fuel type for the disposal of the accumulated minor actinides in the spent nuclear fuel in PWR. *Progress in Nuclear Energy*, *136*, 103749.

- Sharaf, I. M. (2021). An interval type-2 fuzzy TOPSIS for MAGDM applied to solar power systems. *Pakistan Journal of Statistics and Operation Research*, *17*(3), 559-575.
- Garg, H., Sharaf, I.M. A new spherical aggregation function with the concept of spherical fuzzy difference for spherical fuzzy EDAS and its application to industrial robot selection. *Comp. Appl. Math.* **41**, 212 (2022).
- Sharaf, I.M. New aggregation functions for spherical fuzzy sets and the spherical fuzzy distance within the MULTIMOORA method with applications. *Auton. Intell. Syst.* **2**, 23 (2022).
- Sharaf, I.M. The differential measure for Pythagorean fuzzy multiple criteria group decision-making. *Complex Intell. Syst.* (2022). https://doi.org/10.1007/s40747-022-00913-4.
- Albahri, O.S., Alamoodi, A.H., Deveci, M., Albahri, A.S., Moamin, A.M., Sharaf, I.M., Coffman, D., "Multi-perspective evaluation of integrated active cooling systems using fuzzy decision making model", Energy Policy, Volume 182, 2023, https://doi.org/10.1016/j.enpol.2023.113775.
- Albahri, O.S., Alamoodi, A.H., Deveci, M., Albahri, A.S., Moamin A.M., Al-Quraishi, T., Moslem,S., Sharaf, I.M., "Evaluation of organizational culture in companies for fostering a digital innovation using q-rung picture fuzzy based decision-making model", Advanced Engineering Informatics, Volume 58, 2023, https://doi.org/10.1016/j.aei.2023.102191.
- Sharaf, I.M., Alamoodi, A.H., Albahri, O.S., Deveci, M., Talal, M., Albahri, A.S., Delen, D., Pedryc, W., Architecture selection for 5G-radio access network using type-2 neutrosophic numbers based decision making model, Expert Systems with Applications, Volume 237, Part A, 2024, https://doi.org/10.1016/j.eswa.2023.121420.
- Albahri, A.S., Joudar, S.S., Hamid, R.A. *et al.* Explainable Artificial Intelligence Multimodal of Autism Triage Levels Using Fuzzy Approach-Based Multi-criteria Decision-Making and LIME. *Int. J. Fuzzy Syst.* **26**, 274–303 (2024). https://doi.org/10.1007/s40815-023-01597-9.
- A.H. Alamoodi, O.S. Albahri, Muhammet Deveci, A.S. Albahri, Salman Yussof, Hasan Dinçer, Serhat Yüksel, Iman Mohamad Sharaf, Selection of electric bus models using 2-tuple linguistic T-spherical fuzzy-based decision-making model, Expert Systems with Applications, Volume 249, Part A, 2024, 123498, https://doi.org/10.1016/j.eswa.2024.123498.
- Shayea, G.G., Zabil, M.H.M., Albahri, A.S. *et al.* Fuzzy Evaluation and Benchmarking Framework for Robust Machine Learning Model in Real-Time Autism Triage Applications. *Int J Comput Intell Syst* **17**, 151 (2024). https://doi.org/10.1007/s44196-024-00543-3
- M.A. Alsalem, A.H. Alamoodi, O.S. Albahri, A.S. Albahri, Luis Martínez, R. Yera, Ali M. Duhaim, Iman Mohamad Sharaf, Evaluation of trustworthy artificial intelligent healthcare applications using multi-criteria decision-making approach, Expert Systems with Applications, Volume 246, 2024, 123066, https://doi.org/10.1016/j.eswa.2023.123066.

Teaching Experience

Courses taught

- Differential Equations
- Laplace transform
- Numerical Methods
- Complex Analysis
- Fourier Analysis
- Calculus
- Linear Algebra
- Operations Research
- Probability and Statistics
- Computer programming