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Assistant Professor of Industrial Engineering

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CURRICULUM VITAE
March 2025

EDUCATION

Ph.D., West Virginia University (WVU), December '06

- Program: Scholarship as a Graduate Research and Teaching Assistant in Mechanical Engineering
- Research area: Machine Vision; Dissertation topic, "**Evaluation and Optimization of Central Vision Compensation Techniques,**"
GPA: 3.43/4.0
- Member of the "WVU Minority Doctoral Fellowship Program," Fall '05, Spring '06

MSME, (Master of Science in Mechanical Engineering), West Virginia University (WVU), May '01

- Program: Scholarship as a Graduate Research and Teaching Assistant in Mechanical Engineering
- Research area: Machine Vision; Master's thesis topics, "**A Non-Invasive Technique for Monitoring Miotic Eye Responses,**"
GPA: 3.38/4.0

Bachelor of Science, The American University in Cairo (AUC), June '98

- Major: Mechanical Engineering (specializing in Design and Industrial Engineering); GPA: 3.31/4.0

IGCSE, (International General Certificate for Secondary Education), Misr Language School, June '93;

GPA: 3.75/4.0

HIGHLIGHTS OF QUALIFICATIONS

Work Experience

- **Assistant Professor of Industrial Engineering**, King Saud University (KSU), Sep '10 – current

Teaching: - IE-341, "**Human Factors Engineering**", Fall-'10 – current
- IE-352, "**Manufacturing Processes – 2: Metal Cutting**", Spring-'11 – current
- IE-496/497, "**Senior Design Project**", Fall-'10 – current
- GE-105, "**Introduction to Engineering Design**", Spring-'16 – Fall-'18
- IE-342, "**Work Analysis and Design**", Spring-'17
- IE-462, "**Industrial Information Systems**", Fall-'18 – current

Research: - Cognitive Human Engineering and Engineering Education, Spring-'11 – current

Service: **College of Engineering:**

- Engineering College, **Alumni and Employment Unit, Head**, Aug '13 – Aug '18
- **Coordinator of the "2013 Arab-Gulf Cooperation Council (GCC) Countries Engineering Students Design Competition"**, Dec '12 – April '13
- College of Engineering Graduation Projects Committee, Member, Sep '10 – Aug '18

Industrial Engineering Department:

- Industrial Engineering Graduation Projects Committee, **Head**, Sep '10 – Sep '21, Member, Sep '10 – current

- Industrial Engineering Employment and Alumni Affairs Committee, *Head*, Sep '10 – Sep '21
- Industrial Engineering Department Committee, *Member*, Sep '10 – current
- Community Service and Continuous Education, *Member*, Sep '14 – Aug '19
- Industrial Engineering Strategic Plans Implementation Committee, *Member*, Sep '12 – Aug '14
- Industrial Engineering Quality and Accreditation Committee, *Member*, Sep '10 – Aug '14
- Industrial Engineering Scientific Committee, *Member*, Sep '21 – Dec '24
- Industrial Engineering Study Plans Committee, *Member*, Jan '25 – current

- **Assistant Professor of Engineering**, Fahd Bin Sultan University (FBSU), Sep '09 – Aug '10

Administrative: **Interim Chairman** of the Mechanical Engineering Department, Sep '09 – Aug '10

Teaching: - **Fundamental Math** Courses for Engineering Students, Sep '09 – Aug '10
 - **Fundamental Information Technology** Courses, Sep '09 – Aug '10

Service: - Engineering College Committee, member, Sep '09 – Aug '10
 - Assisting with Foundation Year Program, administrative duties, Sep '09 – Aug '10
 - Admissions Committee, member, Sep '09 – Aug '10

- **Assistant Professor of Engineering**, Al-Jouf University, Mar '08 – Sep '09

Teaching: - GE-104, "**Basics of Engineering Drawing - Manual Drawing and AutoCAD**", Fall '08, Spring '09
 - GE-210, "**Engineering Mechanics (Statics and Dynamics)**", Fall '08, Spring '09
 - ENGL-122, "**English Writing Skills**", Spring '08

Service: - **ABET** Accreditation Committee, *Head*, Spring '08 - Sep '09
 - Quality Assurance and Academic Accreditation Unit, *College of Engineering Representative*, Mar '09 - Sep '09
 - Quality Assurance and Public Relations Committee, College of Engineering, *Member*, Sep'08 - Sep '09
 - Course Syllabi and Curricula International and National (KSA) Review Committee, *Head*: (Mechanical, Civil, Industrial, Electrical-Power and Communications- Engineering), May '08 - Sep '09
 - Course Review and Precision Committee (Engineering), *Member*, Jan' 09 – Sep '09
 - Faculty Recruitment (Engineering) Committee, *Member*, Feb' 09 - Sep '09

- **Post-Doctoral / Research Associate:**

MARC-WVU (Mid-Atlantic Retinal Consultants / West Virginia University - Ophthalmology), Feb '07 – July '07
 Research on therapies for CNV-AMD (Choroidal Neovascularization due to Age-Related Macular Degeneration)

- **Academic Administration, WVU:**

ABET course material preparation, Engr-102, Engr-293: Fall '06, Spring '06, Fall '05, Smr-2 '02

Assistant **Course Coordinator**, Engr-293: Fall '06

Assistant Coordinator for Freshman Engineering Events: Fall '06

Member of Freshman Engineering **Advising Committee**: Smr-2 '06, Fall '06

Member of committee for **course development**, Engr-102, Engr-293: 2005 – 2006

- **Teaching Instructor (Lecturer / Adjunct Professor), WVU / PSC-WVU:**

Engr-293, WVU, "**Basics of Engineering**," Fall '06 (2 sections, approx. 130 students)

MAE-320, PSC-WVU (Potomac State College of WVU), "**Thermodynamics**," Spring '06

MAE-242, PSC-WVU, "**Dynamics**," Spring '06

Engr-102, WVU, "**Engineering Problem Solving – II (C / C++ / Matlab)**":

Semesters Taught (**six-year experience**): Smr-2 '06, Spr '06, Fall '05, Smr-2 '05, Spr '05, Smr-2 '04,

Fall '03, Spr '03, Fall '02 , Smr-2 '02, Fall '01, Smr-2 '01,
Fall '00

Engr-101, WVU, “**Engineering Problem Solving – I,**” Smr-2 '05, Smr-2 '04, Smr-2 '03

Engr-101, PSC-WVU, “**Engineering Problem Solving – I,**” Fall '05

Engr-199, PSC-WVU, “**Orientation to Engineering,**” Fall '05

MAE-241, PSC-WVU, “**Statics,**” Fall '05

- **Graduate Teaching Assistant:**

Engr-102, WVU, “**Engineering Problem Solving – II**”; Spring '01, Spring '02

MAE-32, WVU, “**Introduction to Mechanical Engineering,**” Fall '99

MAE-41, WVU, “**Statics,**” Spring '99

MAE-42, WVU, “**Dynamics,**” Spring '99

- **Graduate Research Assistant:**

LCSEE (Lane Computer Science and Electrical Engineering Dept.), WVU, “**Automated Face Recognition Project,**”
Dr. Hany Ammar, Dr. Gamal Fahmy, Dr. Lawrence Hornak, 2004 – 2006

MAE (Mech. and Aerospace Engr. Dept.), WVU, “**Contrawound Toroidal Helical Antenna,**” Dr. James E. Smith,
Fall '98 - Smr-II '99

- **Engineering Intern**, GME (General Motors Egypt); Departments: Quality Control and Quality Assurance:
Smr '95, Smr '96, Smr '97

Funded Projects

- **Dysarthric Speech Recognition Systems using End-to-End Deep Learning Models (KSRG -2022-136).** Project funded by the King Salman Center For Disability Research, May 2023 – Dec. 2024
- **Researchers Supporting Project (RSP-2020/133).** Project funded by the Distinguished Scientist Fellowship Program (DSFP), King Saud University, Jan. 2020 – current.
- **Smart Manufacturing and Digitalization (RG-1440-047) – PI.** Project funded by the Deanship of Scientific Research, King Saud University, Nov. 2018 – current.
- **Human Engineering (RG-1438-054) – Co-PI.** Project funded by the Deanship of Scientific Research, King Saud University, Feb. 2017 – Jun. 2023.
- **Traffic Sign Evaluation and Redesign of Typeface in Saudi Arabia,** the Multidisciplinary Senior Design Project, Industrial Engineering and Civil Engineering Departments, College of Engineering, Spring '16 – Fall '16.
- **Design and Development of a Grip Force Training Device for the Rehabilitation of Neurologically Impaired Patients,** the Multidisciplinary Senior Design Project, College of Engineering and Biomedical Technology Department, College of Applied Medical Science, Fall '15 – Spring '16.
- **Designing, Establishing, and Supervising the College of Engineering at King Saud University, Alumni and Employment Website** (<http://coeksu-alumni.net/>), the College of Engineering, King Saud University, Aug. 2013 – Aug. 2018.
- **2013 Arab-Gulf Cooperation Council (GCC) Countries Engineering Students Design Competition,** Gulf Cooperation Council, King Saud University, 2012 – 2013.
- **Towards Establishing Technical Universities in the Kingdom of Saudi Arabia,** Ministry of Higher Education and King Saud University, Kingdom of Saudi Arabia, 2011.
- **Research on Choroidal Neovascularization due to Age-Related Macular Degeneration,** Mid-Atlantic Retinal Consultants and West Virginia University Department of Ophthalmology, 2007.
- **Automated Face Recognition System,** Lane Department of Computer Science and Electrical Engineering, West Virginia University, August 2003 – July 2005.

- **NOTAI (Non-Invasive Ocular Toxicity Assessment Instrument)**, Mechanical and Aerospace Engineering Department, West Virginia University, November '99 – January '02.

Supervised Graduate Studies

- Ganiyu Gbadegesin, “**Simultaneous Scheduling of Tasks and Preventive Maintenance Periods in a Parallel Machine Environment with Single Server, Setup and Unloading Time**,” Master’s Degree in Industrial Engineering, Academic Co-Advisor, November 2022 – April 2024.
- Riyadh AlSheikh, “**Task and Environment Effect on Lifting Capabilities While Wearing Safety Shoes**,” Doctorate, Head of Proposal Committee, November 2012.

Senior Design Project Supervision (sample)

- Fahad Al-Shiddi, Sulaiman Al-Wasel, and Yazeed Al-Otaibi, “**Design and Evaluation of Warning Traffic Signs in KSA Roads**,” supervised by Woo-Hyung Park, PhD and Ahmed M. El-Sherbeeney, PhD, 2016-2017.
- Industrial Engineering Dept. Students: Faisal Al-Suhaibani, Ibrahim Al-Waiel; Civil Engineering Students: Abdullah Alhazzaa, Abdullah Alarifi, Ibrahim Alanzie, “**Traffic Sign Evaluation and Redesign of Typeface in Saudi Arabia**,” Multidisciplinary Senior Design Project, supervised by Woo-Hyung Park, PhD, Ahmed M. El-Sherbeeney, PhD, and Seongkwan Mark Lee, PhD (Civil Engineering Dept.), Spring 2016 – Fall 2016.
- Industrial Engineering Dept. Students: Saud Almutairi, Khaled Alfehaid, Nawaf Alhelali; Biomedical Technology Dept Students: Abdullah Alarfaj, Ali Algifari, Saleh Alkridees, Humod Albarrak, “**Design and Development of a Grip Force Training Device for the Rehabilitation of Neurologically Impaired Patients**,” Multidisciplinary Senior Design Project, supervised by Woo-Hyung Park, PhD, Ahmed M. El-Sherbeeney, PhD, and Mohamed Bendjaballah, PhD (Biomedical Technology Dept., College of Applied Medical Sciences), Fall 2015 – Spring 2016.
- Abdullah AlAraidh, Rakan AlAbdulhadi, and Anas AlMubarak, “**Design of Color Vision Deficiency Test**,” Senior Design Project, supervised by Ahmed M. El-Sherbeeney, PhD, 2014-2015.
- Hassan Alzahrani, Mohammad Alotibi, and Abdullah Alqahtani, “**Redesign of Long Saudi Arabian License Plate**,” Senior Design Project, supervised by Ahmed M. El-Sherbeeney, PhD, 2014-2015.
- Mohammed Al Hajj, “**Investigating the Effects of Watching 2D and 3D Displays from Different Distances on Visual Fatigue**,” Master’s Thesis, member of examination committee, April 2014.
- Muhannad AlBeyali, Omar Almansour, and Abdullah Abalkhail, “**Design and Development of an Ergonomic Cane**,” Senior Design Project, supervised by Ahmed M. El-Sherbeeney, PhD, 2013-2014.
- Mansure Bakalla, and Mohamed khan, “**Design and Testing of Foldable Electric Solar Bicycle**,” Senior Design Project, supervised by Ahmed M. El-Sherbeeney, PhD and Prof. Saeed Darwish, PhD, 2013.
- Mohammed AlBawardi, Meshal AlDosari, and Meshal AlUhaidan, “**Design and Manufacturing of a Mobility Assistance Mechanism for Handicapped Persons**,” Senior Design Project, supervised by Ahmed M. El-Sherbeeney, PhD and Prof. Saeed Darwish, PhD, 2012 – 2013.
- Ahmed Sultan Al Suhaibani, Hesham Mohammed Al Suhaibani, and Amjad Abdullah Al Suhaibani, “**Redesign of Saudi Arabian License Plate**,” Senior Design Project, supervised by Ahmed M. El-Sherbeeney, PhD, 2010 – 2011.
- Abdullah Al-Dossari, Hisham Al-Khenain, and Abdullah Al-Shoabi, “**Tricycle for Handicapped Persons**,” Senior Design Project, supervised by Ahmed M. El-Sherbeeney, PhD, 2010 – 2011.

Computer Skills

- Computer Languages/Software, including *MATLAB, QBASIC, C, C++, FORTRAN*
- Computer Packages, including *AutoCAD, Adobe Photoshop, Microsoft Office software (Word, Excel, PowerPoint, Access)*

Language Skills

- Excellent command of spoken and written English and Arabic

PUBLICATIONS**Book Chapters**

- Ahmed Nadeem, **Ahmed M. El-Sherbeeny**, Mohammed M. Al-Harbi, Sheikh F. Ahmad. “**Pulmonary Oxidant–Antioxidant Dysregulation in Asthma.**” In: *Reactive Oxygen Species in Biology and Human Health* (Shamim A, ed). Taylor & Francis, CRC Press, UK (2016, In Press)

Journal Articles**Research Profile**

- **Web of Science Profile:** <https://www.webofscience.com/wos/author/record/JAC-4391-2023>.
- **SCOPUS Profile:** <https://www.scopus.com/authid/detail.uri?authorId=14009778200>.
- **Google Scholar Profile:** <https://scholar.google.com/citations?user=c3XJQo0AAAAJ>.
- **ORCID Profile:** <https://orcid.org/0000-0003-3559-6249>.

2025

- Alshaima Sayed, **Ahmed M. El-Sherbeeny**, et al. **Synthesis and characterization of series of Ca-MCM-41 nanoporous structures for effective elimination of sulfate ions; insight into the used calcium precursor and realistic studies.** *Microporous and Mesoporous Materials* 2025;390:113578.
- Mostafa R. Abukhadra, **Ahmed M. El-Sherbeeny**, et al. **Construction of Fe₃O₄@SiO₂-ABA-Amide/BTH-Cu(II) nanocomposite as a reusable magnetic catalyst for reduction of nitroarenes and nitriles to amines.** *Journal of Sulfur Chemistry* 2025.
- Mostafa R. Abukhadra, **Ahmed M. El-Sherbeeny**, et al. **Fe₃O₄@SiO₂-APA/OCA-CuCl₂ nanocomposite: an efficient and reusable heterogenous catalyst for three-component synthesis of thiazole derivatives.** *Transition Metal Chemistry* 2025.
- X Sun, Y Wu, H Wang, S He, DJ Young, S Thennadil, CL Raston, MR Abukhadra, **Ahmed M. El-Sherbeeny**, et al. **Vortex fluidic enhanced enzymatic hydrolysis of gelatin from barramundi skin for 3D printing.** *Frontiers in Sustainable Food Systems* 2025;9:1443198.
- Sohrab Khan, Munawar Shah, Punyawati Jamjareegulgarn, **Ahmed M. El-Sherbeeny**, et al. **Remotely sensed atmospheric anomalies of the 2022 Mw 7.0 Bantay, Philippines earthquake.** *Advances in Space Research* 2025;75(4):3692–3704.
- Qaisar Khan, Mostafa R. Abukhadra, **Ahmed M. El-Sherbeeny**, et al. **Coherent manipulation of the surface plasmon resonance sensing at the dielectric-graphene interface under Cross-Kerr nonlinearity effect.** *Journal of Magnetism and Magnetic Materials* 2025;618:172858.
- Muhammad Altaf Nazir, Ome Parkash Kumar, Rashid Ali, Muhammad Dilawar Hussain, Sultan Ullah, Abdul Rauf, **Ahmed M. El-Sherbeeny**, et al. **Enhanced Photocatalytic Performance of ZIF-67@ZIF-11 in Binary MOF Systems for Rapid Removal of Persistent Organic Pollutants.** *Korean Journal of Chemical Engineering* 2025;42:547–561.
- F. Alshaima Sayed, Mohamed Hamdy Eid, **Ahmed M. El-Sherbeeny**, et al. **Environmental and health risk assessment of polycyclic aromatic hydrocarbons and toxic elements in the red sea using Monte Carlo simulation.** *Scientific Reports* 2025;15:4122.

2024

- Usama Irshad, Rabbia Mahum, Ismaila Ganiyu, Faisal Shafique Butt, Lotfi Hidri, Tamer G. Ali, and **Ahmed M. El-Sherbeeny**. **UTran-DSR: a novel transformer-based model using feature enhancement for dysarthric speech recognition.** *EURASIP Journal on Audio, Speech, and Music Processing* 2024;54.
- Rabbia Mahum, **Ahmed M. El-Sherbeeny**, et al. **Tran-DSR: A hybrid model for dysarthric speech recognition using transformer encoder and ensemble learning.** *Applied Acoustics* 2024;222:110019.
- Hafiz Muhammad Saad, Ahmed Shdefat, Asif Nawaz, **Ahmed M. El-Sherbeeny**, et al. **Enhancing energy balance in wireless sensor networks through optimized minimum spanning tree.** *PLoS ONE* 2024;19(12):e0314104.

- Adeeb A. Ahmed, Yufeng Chen, **Ahmed M. El-Sherbeeny**, et al. Insertion attack identification in discrete event systems using petri nets with an observer. [PeerJ Computer Science](#) 2024;10:e2269.
- Hamza Makhoulouf Fathy, **Ahmed M. El-Sherbeeny**, et al. Design of one-dimensional phononic crystals comprising robust Fano edge modes as a highly sensitive sensor for alcohols. [Frontiers in Physics](#) 2024;12:1497294.
- Yiran Lu, Hao Lan, Yixiao Wu, Mostafa R Abukhadra, **Ahmed M. El-Sherbeeny**, et al. The influence of storage conditions on hygiene condition and eicosapentaenoic acid oxidation in Nannochloropsis algae for sustainable food supply. [Journal of the Science of Food and Agriculture](#) 2024;Early Access.
- Hussein A. Elsayed, **Ahmed M. El-Sherbeeny**, et al. Optical properties of the 1D quasiperiodic photonic crystals comprising gyroidal superconductor for THz applications. [Europhysics Letters](#) 2024;147 65001.
- Jiayi Lin, Yixiao Wu, Hao Wang, Matt Jellicoe, Shan He, David J. Young, Suresh Thennadil, Colin L. Raston, Charles Brennan, Bin Tian, Mostafa R. Abukhadra, and **Ahmed M. El-Sherbeeny**. Quality enhancement of Barramundi kamaboko using vortex fluidic device modified starch and fish gelatin. [Frontiers in Sustainable Food Systems](#) 2024;8.
- Amir Sultan Khan, Israr Ali Khan, Shah Qasim Jan, **Ahmed M. El-Sherbeeny**, et al. Probing the effect of time conformal factor on the particle dynamics around AdS Reissner–Nordström black hole. [Modern Physics Letters A](#) 2024;39(29n30):2450143.
- MH Eid, V Mikita, M, Ramadan HS, EA Mohamed, MR Abukhadra, **Ahmed M. El-Sherbeeny**, et al. Monte Carlo simulation and PMF model for assessing human health risks associated with heavy metals in groundwater: a case study of the Nubian aquifer, Siwa depression, Egypt. [Frontiers in Earth Science](#) 2024;12:1431635.
- Jun Wang, Ning Wang, Haoju Wang, Kerang Cao, and **Ahmed M. El-Sherbeeny**. GCP: A multi-strategy improved wireless sensor network model for environmental monitoring. [Computer Networks](#) 2024;254:110807.
- Zehan Shen, Shan He, Mostafa R. Abukhadra, **Ahmed M. El-Sherbeeny**, et al. Isolation and characterisation of zinc-chelating peptides from tilapia (*Oreochromis niloticus*) protein hydrolysate. [International Journal of Food Science & Technology](#) 2024;59(12):9220–9233.
- Ahmed Mehaney, **Ahmed M. El-Sherbeeny**, et al. The One-Dimensional Gyroidal Superconductor Photonic Crystals Based Cutoff Frequency Tunability for THz Applications. [Brazilian Journal of Physics](#) 2024;54,205.
- Norhan Talha, **Ahmed M. El-Sherbeeny**, et al. Synergetic studies on the thermochemical activation and polyaniline integration on the adsorption properties of natural coal for chlorpyrifos pesticide: steric and energetic studies. [Scientific Reports](#) 2024;14:21116.
- Mohamed Hamdy Eid, Viktoria Mikita, Mustafa Eissa, Hatem Saad Ramadan, Essam A. Mohamed, Mostafa R. Abukhadra, **Ahmed M. El-Sherbeeny**, et al. An advanced approach for drinking water quality indexing and health risk assessment supported by machine learning modelling in Siwa Oasis, Egypt. [Journal of Hydrology: Regional Studies](#) 2024;56:101967.
- Mohamed Eid, Mahmoud, Essam Mohamed, Tamer Nassar, Mostafa R. Abukhadra, **Ahmed M. El-Sherbeeny**, et al. Comprehensive approach integrating water quality index and toxic element analysis for environmental and health risk assessment enhanced by simulation techniques. [Environmental Geochemistry and Health](#) 2024;46:409.
- Hussein Elsayed, Aliaa Mohamed, **Ahmed M. El-Sherbeeny**, et al. Improved performance of temperature sensors based on the one-dimensional topological photonic crystals comprising hyperbolic metamaterials. [Scientific Reports](#) 2024;14:19733.
- Khalid Mehmood Cheema, Khizer Mehmood, Naveed Ishtiaq Chaudhary, Zeshan Aslam Khan, Muhammad Asif Zahoor Raja, **Ahmed M. El-Sherbeeny**, et al. Knacks of marine predator heuristics for distributed energy source-based power systems harmonics estimation. [Heliyon](#) 2024;10(15):e35776.
- Anas Bilal, Azhar Imran, Xiaowen Liu, Xiling Liu, Zohaib Ahmad, Muhammad Shafiq, **Ahmed M. El-Sherbeeny**, et al. BC-QNet: A quantum-infused ELM model for breast cancer diagnosis. [Computers in Biology and Medicine](#) 2024;175:108483.

- Amira Diab, Khaled Elsayed, **Ahmed M. El-Sherbeeny**, et al. **Synthesis and characterization of Turbinaria ornata mediated Zn/ZnO green nanoparticles as potential antioxidant and anti-diabetic agent of enhanced activity.** *Frontiers in Marine Science* 2024;11:11–17.
- Raheel Mumtaz, Waqar Hussain Shah, Yousaf Iqbal, Hayat Ullah, Ghulam Asghar, Mubushar Hussain, Mostafa R. Abukhadra, and **Ahmed M. El-Sherbeeny**. **Electrical transport and dielectric relaxation mechanism in Zn_{0.5}Cd_{0.5}Fe₂O₄ spinel ferrite: A temperature- and frequency-dependent complex impedance study.** *Heliyon* 2024;10(14):e34155.
- Ahmed Mehane, **Ahmed M. El-Sherbeeny**, et al. **The One-Dimensional Gyroidal Superconductor Photonic Crystals Based Cutoff Frequency Tunability for THz Applications.** *Brazilian Journal of Physics* 2024;54:205.
- Mohamed Eid, Ahmed Tamma, Omar Saeed, András Székács, Mostafa R. Abukhadra, **Ahmed M. El-Sherbeeny**, et al. **Advanced approach combines integrated weight water quality index and potential toxic elements for environmental and health risk assessment supported by simulation technique in Oued Souf, Algeria.** *Scientific Reports* 2024;14:17805.
- Omar Saeed, András Székács, Győző Jordán, Mária Mörtl, Mostafa R. Abukhadra, **Ahmed M. El-Sherbeeny**, et al. **Assessing surface water quality in Hungary's Danube basin using geochemical modeling, multivariate analysis, irrigation indices, and Monte Carlo simulation.** *Scientific Reports* 2024;14:18639.
- Kangkang Xie, Jiayi Ling, Awdhesh Mishra, Muhammad Farooq, Samreen Ahsan, Sadia Hassan, **Ahmed M. El-Sherbeeny**, et al. **Impact of baby spinach as a carrier for the development of sustainable probiotics prior to consumption.** *Frontiers in Sustainable Food Systems* 2024;8:1–9.
- **Ahmed M. El-Sherbeeny**, et al. **Enhancing hotel employees' well-being and safe behaviors: The influences of physical workload, mental workload, and psychological resilience.** *Oeconomia Copernicana* 2024;15(2):765–807.
- Mohamed Adel Sayed, Abdelrahman Mohamed, Sayed A. Ahmed, **Ahmed M. El-Sherbeeny**, et al. **Enhanced photocatalytic degradation of Congo red dye into safe end-products over ZnO@polyaniline/coal composite as low cost catalyst under visible light: Pathways and ecotoxicity.** *Journal of Photochemistry and Photobiology A: Chemistry* 2024;456:115843.
- Mohamed Hamdy Eid, Ali Shebl, Mustafa Eissa, Essam A. Mohamed, Amr S. Fahil, Hatem Saad Ramadan, Mostafa R. Abukhadra, **Ahmed M. El-Sherbeeny**, et al. **Comprehensive approach integrating remote sensing, machine learning, and physicochemical parameters to detect hydrodynamic conditions and groundwater quality deterioration in non-rechargeable aquifer systems.** *Heliyon* 2024;10(12):e32992.
- Xie, Yuanyong, Harry Far, Mina Mortazavi, and **Ahmed M. El-Sherbeeny**. **Improving the Mechanical Properties of Concrete Mixtures by Shape Memory Alloy Fibers and Silica Fume.** *Buildings* 2024;14(6):1709.
- Ahmed Ata, Ahmed Aly, Hend Hussein, **Ahmed M. El-Sherbeeny**, et al. **Hydrogeochemical characteristics and air quality risks associated with gold mining operations in Egypt using geochemical modeling and risk indices.** *Heliyon* 2024;10(11):e31086.
- Qianlong Zhai, Xin Hu, **Ahmed M. El-Sherbeeny**, et al. **A Deadlock Prevention Strategy for Petri Nets Through Tuning Time Constraints.** *IEEE Access* 2024;12:78759–78772.
- Murat Uzam, **Ahmed M. El-Sherbeeny**, et al. **Design of an Improved Think Globally Act Locally Approach for the Computation of Petri Nets Based Liveness Enforcing Supervisors of FMSs.** *IEEE Access* 2024;12:74367–74388.
- Sixian Chan, Menghui Zhang, Yu-Yi Zhi, Saeid Razmjoo, **Ahmed M. El-Sherbeeny**, et al. **Improved anterior cruciate ligament tear diagnosis using gated recurrent unit networks and Hybrid Tasmanian Devil Optimization.** *Biomedical Signal Processing and Control* 2024;95(A):106309.
- Mostafa R. Abukhadra, Nourhan Nasser, **Ahmed M. El-Sherbeeny**, et al. **Enhanced Retention of Cd(II) by Exfoliated Bentonite and Its Methoxy Form: Steric and Energetic Studies.** *ACS Omega* 2024;9(10):11534–11550.
- Li Li, Mina Mortazavi, Harry Far, **Ahmed M. El-Sherbeeny**, et al. **Simulation and modeling of polymer concrete panels using deep neural networks.** *Case Studies in Construction Materials* 2024;20:e02912.

- Lei Chang, Hao Wu, YangLin Hu, and **Ahmed M. El-Sherbeeny**. **Nonlinear elastic wave dispersions of solar cells strengthened by advanced functionally graded materials via both mathematical modeling and deep neural networks technique.** [Aerospace Science and Technology](#) 2024;147:109010.
- Jie Zhao, and **Ahmed M. El-Sherbeeny**. **Joint Task Offloading and Multi-Task Offloading Based on NOMA Enhanced Internet of Vehicles in Edge Computing.** [Journal of Grid Computing](#) 2024;22:28.
- Khaled G. Elmaadawy, Mahmoud F. Bayan, Mohamed Gad, Péter Szűcs, Mohamed Hamdy Eid, Mostafa R. Abukhadra, **Ahmed M. El-Sherbeeny**, et al. **The impact of Oligo-miocene basaltic intrusions on the petroleum system in Gulf of Suez rift basin, Egypt: new insights into tikhermal maturity and reservoir quality.** [Frontiers in Earth Science](#) 2024;11:1295271.
- Mohammed A. El-Meligy, **Ahmed M. El-Sherbeeny**, and Haitham A. Mahmoud. **Market Power-Constrained Transmission Expansion Planning Using Bi-Level Optimization.** [Journal of Electrical Engineering & Technology](#) 2024;19:113-124.

2023

- Bilal Ahmed, Zahid Nisar, and **Ahmed M. El-Sherbeeny**. **Numerical study for MHD peristaltic flow of nanofluid with variable viscosity in the porous channel.** [Journal of Applied Mathematics and Mechanics](#) 2023;104(3).
- Asmaa A Abdelrahman, Heba M Salem, Mostafa R Abukhadra, **Ahmed M. El-Sherbeeny**, et al. **Synthesis of BiFeO₃/ZnMgAl-LDH nanocomposite for instantaneous decolorization of methylene blue by ultrasonic induced adsorption system: characterization and equilibrium studies.** [Materials Research Express](#) 2023;10: 125008.
- Aya Fadl Allah, Ahmed A. Abdel-Khalek, **Ahmed M. El-Sherbeeny**, et al. **Synthesis and Characterization of Iron-Rich Glauconite Nanorods by a Facile Sonochemical Method for Instantaneous and Eco-friendly Elimination of Malachite Green Dye from Aquatic Environments.** [ACS Omega](#) 2023;8(51):49347-49361.
- Mohamed Adel Sayed, Abdelrahman Mohamed, Sayed A. Ahmed, **Ahmed M. El-Sherbeeny**, et al. **Advanced Equilibrium Studies for the Synergetic Impact of Polyaniline on the Adsorption of Rhodamine B Dye by Polyaniline/Coal Composite.** [ACS Omega](#) 2023;8(49):47210-47223.
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- Adham Ragab, Tamer Khalaf, Mohamed Ramadan, and **Ahmed M. El-Sherbeeny**. (2022). “[The Effects of Extended Exam Time on the Performance of Regular Engineering Students](#),” *Proceedings of the IEOM Fifth European Conference*, Rome, Italy, July 25-28.
- **Ahmed M. El-Sherbeeny**, Woo Hyung Park. (2019). “[Ergonomic Evaluation of Vehicle License Plates used in Saudi Arabia](#),” *Proceedings of the IEOM Third European Conference*, Pilsen, Czech Republic, July 23-26.
- **Ahmed M. El-Sherbeeny**, Woo Hyung Park, Mohammed A. Alghufaili, and Abdulrahman I. Al-Husseini. (2018). “[An Evaluation of Road Hump Markings in Riyadh: Detectability of the Shapes and Colors](#),” *Proceedings of the IEOM Second European Conference*, Paris, France, July 26-27.
- **Ahmed M. El-Sherbeeny**, and Hamed Dhafi Alsharari. (2018). “**Assessing Engineering Disciplines with Expected Success for Females in Saudi Arabia**,” *Proceedings of the 2018 ASEE Annual Conference and Exposition*, Salt Palace Convention Center, Salt Lake City, UT, USA, June 24-27.
- Mohammed Alkahtani, **Ahmed El-Sherbeeny**, Mohammed A. Noman, Fawaz M. Abdullah, and Alok Choudhary. (2018). “**Trends in Industrial Engineering and the Saudi Vision 2030**,” *Proceedings of the 2018 IISE Annual Conference*, Loews Royal Pacific Resort, Orlando, Florida, USA, May 19-22.
- Mohammed Alkahtani, **Ahmed M. El-Sherbeeny**. (2017). “**Industrial Engineering Higher Education in Saudi Arabia**,” (abstract), *Proceedings of the Twenty-Fourth International Conference on Learning (The Learner Research Network)*, University of Hawaii at Manoa, Honolulu, USA, July 19-21.
- **Ahmed M. El-Sherbeeny**, Mohammed Alkahtani, James V. Odom, and James E. Smith. (2017). “**The Partial Cartoon Central Vision Compensation Technique: Subjective Evaluation**,” *Proceedings of the International Conference on Industrial Engineering and Operations Management (IEOM)*, Rabat, Morocco, April 11-13.
- Mohammed Alkahtani, **Ahmed M. El-Sherbeeny**, and Fawaz M. Abdullah. (2017). “**Assessing Engineering Minorities in Saudi Arabian Higher Education: Status and Challenges**,” *Proceedings of the International Conference on Industrial Engineering and Operations Management (IEOM)*, Rabat, Morocco, April 11-13.
- **Ahmed M. El-Sherbeeny**, Woo Hyung Park, Dr Seongkwan Mark Lee, Ibrahim Alanzie, Faisal Alsuhaibani, Abdullah Alhazzaa, Ibrahim Alwaiel, and Abdul-Azeez Alarifi. (2017). “**Traffic Sign Evaluation and Redesign of Typeface in Saudi Arabia**,” (abstract), *Proceedings of the International Conference on Industrial Engineering and Operations Management (IEOM)*, Rabat, Morocco, April 11-13.
- El-Sherbeeny, AM. (2014). “**Highlighting the Need for Engineering Education for Females in Saudi Arabia**,” *121st ASEE (American Society for Engineering Education) Annual Conference & Exposition*, Indianapolis, Indiana, USA, June 15-18, 2014.
- El-Sherbeeny, AM. (2014). “**The Partial Cartoon Central Vision Compensation Technique: Introduction and Evaluation**,” *4th International Conference on Multimedia Computing and Systems (ICMCS'14)*, Marrakesh, Morocco, April 14-16, 2014.
- El-Sherbeeny, AM, Al Sohibani, HM, Al Suhaibani, AS, Al Suhaibani, AA. (2011). “**Evaluating the Design of the Current Saudi Arabian License Plate**,” *41st International Conference on Computers & Industrial Engineering (CIE)*, Los Angeles, CA, October 23-26, 2011.
- El-Sherbeeny, AM, Al-Tallaq, K. (2009). “**Technical Challenges Facing New Universities Seeking ABET Accreditation for Engineering Programs in Saudi Arabia – The AlJouf University Experience**,” Poster Presentation in: *The Fifth Saudi Technical Conference and Exhibition*, January 11-14, 2009.
- Odom, J.V., El-Sherbeeny, A., and Jabbour, N.M (2008). **Treatments of Neovascular Age-Related Macular Degeneration: A Quantitative Review**. *Program and Proceedings of the Forty-Sixth Annual Meeting of the*

International Society for Clinical Electrophysiology of Vision. Morgantown, WV. July 10th – July 15th, 2008. WVU Eye Institute: Morgantown, WV, 2008. pp. 58-59. ISBN: 0-9772098-1-4.

- Odom, J.V., El-Sherbeeny, A., and Jabbour, N.M (2008). **Treatments of Neovascular Age-Related Macular Degeneration: A Quantitative Review**. *Documenta Ophthalmologica*, 2008, 117 (Supplement 1), 42. (Note: The supplement is a special issue based on the conference proceedings above so that this abstract is the same as above.)
- El-Sherbeeny, AM, Hensel, R, Ware, AE, Smith, J. (2006). **“Study Labs as a Practical Means of Enhancing Freshman Engineering Courses,”** *The Fall 2006 Convention For the Midwest Section of the American Society of Engineering Education (ASEE)*, Kansas City, Missouri, September 13-15, 2006.
- Fahmy, G, El-Sherbeeny, A, Mandala1, S, Abdel-Mottaleb, M, and Ammar, H. (2006). **“The Effect of Lighting Direction/Condition on the Performance of Face Recognition Algorithms,”** *SPIE Paper Number 6202-21*, Orlando, Florida, April 17-21, 2006.
- El-Sherbeeny, AM, Odom, JV, Smith, JE. (2005). **“A Non-Invasive Image Compensation Technique for Retinitis Pigmentosa Patients,”** Abstract in: *Developments in Vision Enhancement Technology and Their Evaluation*, Conference Proceedings, June 2005, WVU Eye Institute.

DELIVERED/ORGANIZED PROFESSIONAL PRESENTATIONS, WORKSHOPS, and LECTURES

- **Conference Presentation.** El-Sherbeeny, AM, and Park, Woo Hyung Park. (2019). **“Ergonomic Evaluation of Vehicle License Plates used in Saudi Arabia,”** *IEOM Third European Conference*, Pilsen, Czech Republic, July 23-26. (presented July 23, 2019).
- **Conference Presentation.** El-Sherbeeny, AM, Alkahtani, M, Odom, JV, and Smith, JE. (2017). **“The Partial Cartoon Central Vision Compensation Technique: Subjective Evaluation,”** *International Conference on Industrial Engineering and Operations Management (IEOM)*, Rabat, Morocco, April 11-13. (presented April 12, 2017).
- **Conference Presentation.** Alkahtani, M, El-Sherbeeny, AM, Abdullah, FM. (2017). **“Assessing Engineering Minorities in Saudi Arabian Higher Education: Status and Challenges,”** *International Conference on Industrial Engineering and Operations Management (IEOM)*, Rabat, Morocco, April 11-13. (presented April 12, 2017).
- **Lecture.** El-Sherbeeny, AM. (2016). **“How to Boost your Academic English,”** *College of Engineering Student Activities Club: “Ithraa’ Program,”* College of Engineering, King Saud University (presented February 10, 2016).
- **Lecture.** El-Sherbeeny, AM. (2016). **“Project Preparation Methods - Introduction and Background,”** *Graduation Projects Committee*, Industrial Engineering Department, College of Engineering, King Saud University (presented February 29, 2016; October 18, 2015; February 22, 2015; November 03, 2014; April 06, 2014).
- **Conference Presentation.** El-Sherbeeny, AM. (2014). **“The Partial Cartoon Central Vision Compensation Technique: Introduction and Evaluation,”** *4th International Conference on Multimedia Computing and Systems (ICMCS’14)*, Marrakesh, Morocco (presented April 15, 2014).
- **Lecture.** El-Sherbeeny, AM. (2014). **“Overview of Human Factors Engineering,”** *Ithraa’ Program/Industrial Engineering Club*, College of Engineering, King Saud University (presented March 4, 2014).
- **Delivered Workshop.** El-Sherbeeny, AM. (2014). **“Lessons from the Third Competition for Graduation Projects of Engineering Colleges in GCC Universities,”** *Vice Deanship for Development and Quality*, College of Engineering, King Saud University (presented May 11, 2013).
- **Lecture.** El-Sherbeeny, AM. (2011). **“Graduation Project Report and Presentation Guidelines,”** *Graduation Projects Committee*, Industrial Engineering Department, College of Engineering, King Saud University (presented November 29, 2011; December 22, 2010).
- **Co-Organized Workshop.** El-Sherbeeny, AM. **“Institutional Mission and its Relation to Accreditation in Higher Education,”** *AlJouf University Quality Assurance and Academic Accreditation Unit*, Sakaka, AlJouf, KSA, Wednesday, May 13, 2009.

- **Co-Organized Workshop.** El-Sherbeeny, AM. “Creating a Vision and Mission for the College of Engineering,” *Alljouf University Quality Assurance and Academic Accreditation Unit*, Sakaka, AlJouf, KSA, Wednesday, Apr 15, 2009.
- **Conference Presentation.** El-Sherbeeny, AM. (2006). “Study Labs as a Practical Means of Enhancing Freshman Engineering Courses,” *The Fall 2006 Convention For the Midwest Section of the American Society of Engineering Education (ASEE)*, Kansas City, Missouri (presented September 15, 2006).
- **Conference Presentation.** El-Sherbeeny, AM. (2006). “The Effect of Lighting Direction/Condition on the Performance of Face Recognition Algorithms,” *SPIE Paper Number 6202-21*, Orlando, Florida. Presentation, April 18, 2006.
- **Conference Presentation.** El-Sherbeeny, AM. (2005). “A Non-Invasive Image Compensation Technique for Retinitis Pigmentosa Patients,” *Developments in Vision Enhancement Technology and Their Evaluation*, Presentation, June 3, 2005, WVU Eye Institute.

DELIVERED PROFESSIONAL TRAINING COURSES

- “Corporate Standards and Ethics” *Obeikan Investment Group* (May-June 2014).
- “Business Writing” *Obeikan Investment Group* (March 2014).
- “Good Manufacturing Practices” *Obeikan Investment Group* (August 2013).

ATTENDED WORKSHOPS and TRAINING

- Attended Workshop, “Competencies in Writing Examination Items,” *National Center for Assessment (Qiyas)*, December 05-06, 2018.
- Attended Workshop, “Employability Skills Assessment Development Workshop,” *National Center for Assessment (Qiyas)*, February 14-15, 2018.
- Attended Training, “Design of Industrial Facilities – The Past and the Present,” *King Saud University / Saudi Society for Systems and Industrial Engineering*, April 27, 2016.
- Attended Workshop, “Statistical Testing using SPSS,” *King Saud University*, 10 Hours, February 21-22, 2016.
- Attended Workshop, “KSU – KPI’s and Benchmarking,” *King Saud University*, 10 Hours, February 07-08, 2016.
- Attended Workshop, “Research Qualitative Analysis,” *King Saud University*, 10 Hours, February 02-03, 2016.
- Attended Workshop, “Translator and Dictionary,” *King Saud University*, Monday, March 30, 2015.
- Attended Workshop, “Writing Scientific Papers and Getting them Published,” *King Saud University*, Tuesday, March 17, 2015.
- Attended the Fourth Symposium on Informatics, “Technologies for People with Special Needs,” *College of Computer and Information Sciences, King Saud University*, April 23-25, 2013.
- Attended Workshop, “Emotional Intelligence,” *King Saud University*, 10 Hours, October 26-27, 2010.
- Attended Workshop, “Accreditation Report Standards of the Educational Institution,” *King Saud University*, 10 Hours, October 23-24, 2010.
- Attended Workshop, “Building Higher Educational Assessment Skills for Teaching Faculty,” *Umm AlQura University*, Sakaka, AlJouf, KSA, May 30 – June 10, 2009.

AWARDS, RECOGNITION, CERTIFICATIONS, and MEMBERSHIPS

- Recognized by the Deanship for Scientific Research (Public Relations Unit), King Saud University, for **publishing in a top 5% journal**: Enhancing Hotel Employees' Well-being and Safe Behaviors: The Influences of Physical Workload, Mental Workload, and Psychological Resilience. [Oeconomia Copernicana](#) 2024;15(2):765–807, Mar. 06, 2025.
- Recognized by the Deanship for Scientific Research (Public Relations Unit), King Saud University, for **publishing in a top 10% journal**: Verification of Current-State Opacity in Discrete Event Systems by Using Basis Coverability Graphs. [Mathematics](#) 2023;11(8):1798, Sep. 15, 2024.

- Recognized by the Vice Deanship for Development and Quality at the College of Engineering, King Saud University, for the **supervision and development of the College's Alumni and Employment Unit activities** during the period from Aug. 2013 until Aug. 2018, Sep. 2018.
- Recognized by the IEOM (Industrial Engineering and Operations Management) Society for authoring the **Best Track Paper in Human Factors and Ergonomics**, "An Evaluation of Road Hump Markings in Riyadh: Detectability of the Shapes and Colors", during *IEOM Second European Conference, Awards and Recognition Dinner, Renaissance Paris La Defense Hotel, Paris, France, July 27, 2018*.
- Recognized by the College of Engineering, King Saud University, for **Participating in Organizing the College of Engineering's Fifth Alumni Gathering (April 24, 2018)**, during the *Annual Gathering for the College of Engineering Faculty and Staff, May 11, 2018*.
- Recognized by the College of Engineering, King Saud University and BAE Systems – Saudi Arabia, for **Contributing to the Scientific Arbitration of College of Engineering Senior Design Projects**, during the *BAE Systems Saudi Arabia Outstanding Graduation Projects Competition, First Semester 1438/1439H (Fall 2017), Jan 10, 2018*.
- Recognized by the College of Engineering, King Saud University and BAE Systems – Saudi Arabia, for **supervising the College of Engineering Senior Design Project earning first place**, "Evaluation and Redesign of Road Humps in Riyadh in Terms of Detectability of Road Hump Markings", during the *BAE Systems Saudi Arabia Outstanding Graduation Projects Competition, First Semester 1438/1439H (Fall 2017), Jan 10, 2018*.
- Recognized by the College of Engineering Students Council, College of Engineering, KSU, for **Participating in the Evaluation of the #إشرح_لي (Explain for me) Competition** during the 1437-1438 (2016-2017) during the *College of Engineering Students Council Annual Activity Ceremony, May 25, 2017*.
- Recognized by the IEOM (Industrial Engineering and Operations Management) Society for supervising the poster earning **third place** in the **IEOM Senior Design Project Poster Competition**, "Traffic Sign Evaluation and Redesign of Typeface", during *IEOM Annual International Conference, Sofitel Hotel, Rabat, Morocco, April 12, 2017*.
- Recognized by the College of Engineering, King Saud University, for **supervising the Multidisciplinary Senior Design Project earning first place**, "Evaluation and Redesign of road signs currently used in Riyadh", during the *College of Engineering at KSU Outstanding Graduation Projects Competition, First Semester 1437/1438H (Fall 2016), Jan. 24, 2017*.
- Recognized by the College of Engineering, King Saud University, for **supervising the Multidisciplinary Senior Design Project earning first place**, "Design and Development of a Grip Force Training Device For The Rehabilitation of Neurologically Impaired Patients", during the *BAE Systems Saudi Arabia Outstanding Graduation Projects Competition, Second Semester 1436/1437H (Spring 2016), May 24, 2016*.
- Recognized by the College of Engineering Student Activities Club, King Saud University, for **participating in the "Ithraa' Program,"** during the 1436-1437 (2015-2016) activities closing ceremony, May 04, 2016.
- Recognized by the College of Engineering, King Saud University for **organizing the GCC Countries 2013 Engineering Students Design Competition**, during award ceremony, Tuesday, April 16, 2013; and during the college annual party, Thursday, May 16, 2013.
- Recognized by the College of Engineering, King Saud University, for **supervising the Industrial Engineering senior design project earning first place**, "Tricycle for Handicapped Persons", during the *BAE Systems Saudi Arabia Outstanding Graduation Projects Competition, Second Semester 1431/1432H (Spring 2011), May 2011*
- Recognized by the College of Engineering, King Saud University, for **efforts performed as part of the Quality and Accreditation Committee**, December 2010.
- Award: **Best Industrial Engineering Project by the IIE** (Institute of Industrial Engineers)-Student Chapter, AUC, 1996 – 1997.
- **Dean's List of Honors** (cultural activities and academic achievement), AUC, 1994 – 1998.
- Completed the **Human Participants Protection Education for Research Teams** online course, sponsored by the National Institutes of Health (NIH), November 2004.

- Active member of the **SSSIE** (Saudi Society for Systems and Industrial Engineering), February 2016 – current.
- Active member of the **ASEE** (American Society for Engineering Education), 2006 – current.

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- Nationality: United Kingdom
- Marital Status: Married, three sons, one daughter

REFERENCES:

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