

Prof. Hussein M. Elmehdi

Professor of Biomedical Physics

Senior Academic Leader & AI Innovator | University of Sharjah, UAE

Email: hmelmehdi@sharjah.ac.ae

Location: Sharjah, UAE

LinkedIn: linkedin.com/in/husseinelmehdi



EXECUTIVE SUMMARY

Prof. Hussein M. Elmehdi is a Professor of Biomedical Physics and a higher education leader with a continuous record of senior executive roles spanning two decades at the University of Sharjah (UAE). His leadership roles include: Chairman of the Department of Applied Physics and Astronomy (2007-2011), Vice Dean of the College of Sciences (2010-2014), Dean of Academic Support Services (2014-2024), Coordinating Dean of Academic Affairs at the UoS Branch Campuses in Khorfakkan, Kalba, and Al Dhaid (2024 to present), and Director of the Conference Management Centre (2024 to present). His work spans biomedical physics research, institutional governance, digital and hybrid education transformation, and applied AI, including the development of AI automation workflows and multi-agent systems for higher education settings. Author of 150+ peer-reviewed publications and holder of 2 US patents, he has received international recognition from UNESCO and industry bodies for digital and hybrid education transformation. He is a Visiting Professor at the University of Port Said (Egypt), Academic Advisor at the University of Tripoli (Libya), and Principal Investigator of EnlightAI, a pan-Arab AI readiness initiative commissioned by the Association of Arab Universities across 22 countries. Available for senior academic leadership positions (Dean, VP/DVC Academic Affairs, Provost, or equivalent) in the UAE, GCC, MENA region, Europe, Canada, Australia, and New Zealand.

CORE COMPETENCIES

- Academic Strategy & Governance
- Research Leadership & Innovation
- Multi-Campus & Branch Operations
- Student Success & Retention Programs
- Policy Development & Institutional Planning
- Digital & Hybrid Learning Transformation
- Curriculum Development & Accreditation
- International Partnerships & Outreach
- AI & EdTech Integration

AI EXPERTISE & DIGITAL INNOVATION

AI Certifications & Continuous Learning

- Holder of multiple AI certifications from internationally recognised institutions and platforms:
- IBM / Coursera (July 2025):** Generative AI: Prompt Engineering Basics, authorised by IBM Digital Business Group and offered through Coursera. Covers advanced prompt design, instruction frameworks, and effective interaction with large language models.
- UoS / Al Ghurair Foundation / Centreity:** AIT 103: AI Unleashed, Part I, Introduction to AI Prompting and Integrations, the foundational module covering AI literacy, prompt design principles, and integrating AI tools into professional and educational workflows.

- **UoS / Al Ghurair Foundation / Centreity:** AIT 203: AI Unleashed, Part II, an institutional AI upskilling programme delivered in partnership with the Abdulla Al Ghurair Foundation for Education and the Institute of Leadership in Higher Education.
- **UoS / Al Ghurair Foundation / Centreity:** AIT 303: AI Unleashed, Part III, Tools to Enhance Learning, focused on practical AI tools integration into higher education teaching, learning and assessment contexts.
- **Blackboard Academy (October 2021):** DTLS Certified Specialist, Digital Teaching and Learning Specialist, demonstrating expertise in designing and delivering high-quality digital learning experiences using Blackboard LMS.
- **Additional AI certifications:** Anthropic / Claude Academy (academy.claude.com) - full certification programme covering responsible AI development, prompt engineering, Claude API integration, and building with Claude; Microsoft - AI professional training in Azure AI fundamentals and responsible AI; Coursera - professional training in machine learning, generative AI, and applied AI; LinkedIn Learning - AI strategy, agentic AI systems, and no-code/low-code automation platforms including n8n and Make.com. Currently developing and deploying custom AI agents and multi-agent automation workflows for academic use cases.

AI Research & Scholarly Contributions

- Active researcher on AI applications in higher education, with peer-reviewed publications addressing AI-driven institutional transformation:
- Elmehti, H.M. et al. (2025). Early detection of at-risk health sciences students: a machine learning-based predictive study using midterm grades. BMC Medical Education, 25, 1651.
- Al Hashmi, R.A.M., Zervopoulos, P., Elmehti, H.M. et al. (2025). Predicting Dropout in MENA STEM Higher Education Using Explainable AI. Emerging Science Journal, 9, 268–286.
- Aderibigbe, S.A., Omar, M., Elmehti, H.M. et al. (2025). Artificial intelligence-driven prediction of optimal technology-aided alternative operations in post-emergency contexts. International Journal of Educational Research Open, 9, 100473.
- Elmehti, H.M. & Ibrahim, A.M. (2025). Perception on Hybrid Learning During Digital Transformation. In: Informatics, Technologies and Digitalization in the Age of Transformation.
- **EnlightAI, Pan-Arab AI Readiness Initiative (Principal Investigator, 2025–ongoing):** A landmark pan-Arab strategic research project formally commissioned by the Secretary General of the Association of Arab Universities (AAU) in November 2025. The project, formally titled “EnlightAI: Assessing AI Readiness and Transformation Across Arab Universities, Evidence-Based Insights to Guide Ethical and Inclusive Innovation”, conducts a comprehensive gap analysis across five dimensions: AI literacy and competence; AI utilisation and adoption; ethics and governance; policy and regulatory readiness; and framework and policy development. Implemented in four structured phases (Data Collection, Comparative Benchmarking, Framework Development, and Validation & Dissemination), the initiative will culminate in a Unified Pan-Arab AI Framework and Policy Compendium for Arab higher education institutions, benchmarked against UNESCO, the EU AI Act, EU DigCompEdu, and US Department of Education frameworks.

AI Workshops & Training Delivery

- Designed and delivered multiple hands-on workshops on AI and its utilisation in higher education, covering three key domains: administration, teaching & learning, and research. Workshop highlights include:
- **“Artificial Intelligence in Service of Higher Education” (Mauritania, 2025):** An ALECSO-sponsored workshop delivered at the University of Nouakchott, Mauritania. Covered AI adoption statistics in higher education, AI skill levels (LLM, AI Agents, Agentic AI), prompt engineering, hands-on AI applications (Canva, Napkin.ai, NotebookLM, Julius, Elicit), and ethical considerations of AI in academic settings.
- **“Artificial Intelligence in Service of Higher Education” (Lebanon):** A parallel workshop delivered at a Lebanese university on the same programme, addressing AI tools for teaching, research, and administration with practical

demonstrations and ethical frameworks. A further workshop was delivered at Port Said University, Egypt (June 2026), under the ALECSO Arab Minds Abroad Programme, where Prof. Elmehdi was formally invited as a distinguished visiting scholar alongside former university presidents and senior regional academics. The workshop covered AI adoption frameworks, agentic AI tools, digital transformation strategies, and ethical AI governance for Arab university faculty and institutional leaders.

- **AI Workshops at UoS & ILHE:** Regular faculty development workshops at the University of Sharjah and the Institute of Leadership in Higher Education, covering AI tools for instructional design, assessment, student data analysis (Bricks), research (Elicit), infographics (Napkin.ai), and administrative automation (NotebookLM, Julius).
- Workshop content is data-driven and evidence-based, drawing on UNESCO, WYSD 2025 and international higher education AI adoption surveys to contextualise the urgency and ethical dimensions of AI integration.

AI Speaking, Research & Thought Leadership

- Active researcher and invited speaker on AI in higher education, with verified presentations and conference contributions including:
- **“Mapping AI Readiness and Ethical Governance in Arab Universities” (Feb 2026):** Keynote/paper presented at the 2nd ARHSS Conference, “Future Society in the Age of AI”, University of Sharjah. A pan-regional gap analysis drawing on evidence from 22 Arab countries, addressing AI governance frameworks, institutional readiness, and ethical AI policy for higher education.
- **“Ethical Considerations of AI in Higher Education” (TESOL Arabia, 2025):** Abstract accepted and presentation delivered at the 29th TESOL Arabia International Conference, University of Sharjah. Addressed AI academic integrity, bias, data privacy, responsible use frameworks, and the development of institutional AI ethics policies.
- Recognised as a regional thought leader on AI in higher education; advocates for a balanced, ethical, and strategic approach encompassing AI governance frameworks, faculty capacity-building, student digital literacy, and research integrity across Arab universities. Currently serving as Visiting Professor at the University of Port Said, Egypt (May 2026–present) and Academic Advisor at the University of Tripoli, Libya - extending AI education leadership and curriculum advisory services across the Arab region.
- Creator of custom GPTs, AI agents, and automated multi-agent workflows for higher education use, including an AI-powered Academic Advisor, a Virtual Physics Tutor (900+ chats), and AI tools for research, institutional planning, and student support, demonstrating applied AI expertise beyond theory.

PROFESSIONAL MEMBERSHIPS

- Canadian Nuclear Society
 - Canadian Organization of Medical Physicists
 - Arab Society of Physicists
- Canadian Association of Physicists
 - American Association of Cereal Chemists
 - Arab Union for Astronomical and Space Sciences

RESEARCH PROJECTS & GRANTS

Project	Status	Role
EnlightAI: Assessing AI Readiness and Transformation Across Arab Universities. Pan-Arab initiative commissioned by the Association of Arab Universities (AARU), covering AI literacy, utilisation, ethics and governance across Arab universities.	Under negotiation	PI / Lead

EDITORIAL & PEER REVIEW SERVICE

Journal Reviewer

- International Journal of Radiation Oncology Biology Physics
- Ultrasonics
- International Forum on Engineering Education
- Journal of Cereal Chemistry
- Food Research International
- Progress in Computational Fluid Dynamics
- University of Sharjah Journal of Applied Sciences

Guest Editor

- **JoVE Topical Collection (Journal of Visualized Experiments):** Guest Editor for a thematic collection on education, physics, and applied sciences.
- **Collections Management and Acquisition, Publishing Performance and Intelligence Group, Springer Nature:** Guest Editor involvement in academic collections curation and publishing strategy.

Journal Reviewer (Additional)

- Emerging Trends in Drugs, Addictions, and Health
- Frontiers in Environmental Science
- Social Sciences and Humanities Open
- Reviewer for numerous local, national and international conferences

PUBLICATIONS (2001–2026)

2026 - Journal Articles & Book Chapters

1. Alsuwaidi, S., Elmehti, H.M., Ramachandran, K. & Begum, S. Radiation dose, lifetime cancer risk, and quantitative image quality in infant head CT: Scanner comparison and parameter variations. *Radiation Physics and Chemistry*, 114267 (2026).
2. Elmehti, H.M., Malathi, B. & Begum, S. One-step solvothermal synthesis of Ag-doped MOF-5 with enhanced electrical and photocatalytic properties for dye degradation. *Journal of Materials Science: Materials in Electronics* 37(11), 833 (2026). Springer US.
3. Aderibigbe, S., Omar, M., Elmehti, H., Colucci-Gray, L., Hamad, K., Shanableh, A., AlOthman, H., Elshami, W. & Hassan, M. Professional staff adaptation to work platforms enabled by digital technologies for operational resilience and sustainable transformation in higher education. *Discover Sustainability* 7(1), 1190 (2026). Springer.
4. Aderibigbe, S.A., Omar, M., Colucci-Gray, L., Elmehti, H., Hamad, K., Shanableh, A., AlOthman, H., Elshami, W. & Taha, M.H. Student insights on navigating Virtual Learning Environments during environmental crises. *Open Education Studies* 8(1), 20250128 (2026). De Gruyter.
5. Taha, M.H., Abuzaid, M., Elshami, W., Elmehti, H. & Aderibigbe, S. Enhancing inclusivity, engagement, and scalability: Assessing the hybrid-flexible model satisfaction in higher education context. *Advances in Biomedical and Health Sciences* 5(1), 19–28 (2026). Medknow.
6. Jayapalan, A., Nattarayan, K., Elmehti, H.M., Columbus, S., Ramachandran, K., Daoudi, K. & Gaidi, M. Antibacterial resistance challenges in green antibacterial materials. In: *Green Antibacterial Materials*, pp. 525–553. Woodhead Publishing (2026).

7. Ramachandran, K., Raamdheep, G., Elmehti, H.M., Hammouche, J., Jayapalan, A., Daoudi, K. & Gaidi, M. Green antibacterial materials for dental applications. In: *Green Antibacterial Materials*, pp. 165–201. Woodhead Publishing (2026).
8. Irshad, M., Ramachandran, K., Columbus, S., Elmehti, H.M., Daoudi, K. & Gaidi, M. Green antibacterial materials for food packaging. In: *Green Antibacterial Materials*, pp. 263–284. Woodhead Publishing (2026).
9. Padmalaya, G., Nandhini, I., Annalakshmi, G., Elmehti, H.M. & Ramachandran, K. Green antibacterial personal care products. In: *Green Antibacterial Materials*, pp. 233–262. Woodhead Publishing (2026).

2025 - Journal Articles, Book Chapters & Conference Papers

10. Al Hashmi, R.A.M., Ozturk, I. & Elmehti, H.M. Early detection of at-risk health sciences students: a machine learning-based predictive study using midterm grades. *BMC Medical Education* 25, 1651 (2025). <https://doi.org/10.1186/s12909-025-08192-6>
11. Al Hashmi, R.A.M., Zervopoulos, P.D., Elmehti, H.M. & Ozturk, I. Predicting Dropout in MENA STEM Higher Education Using Explainable AI: A Machine Learning Approach. *Emerging Science Journal* 9, 268–286 (2025). <https://doi.org/10.28991/ESJ-2025-SIED1-016>
12. Al Hashmi, R.A.M., Zervopoulos, P.D. & Elmehti, H.M. A Systematic Review of the Determinants of University Dropout: A Comparison between International Experience and the MENA Region. *Scientific Culture* 11(3.1), 10–23 (2025).
13. Aderibigbe, S.A., Omar, M., Elmehti, H., Colucci-Gray, L., Hamad, K., Shanableh, A., AlOthman, H. & Alotaibi, E. Artificial intelligence-driven prediction of optimal technology-aided alternative operations in post-emergency contexts. *International Journal of Educational Research Open* 9, 100473 (2025). <https://doi.org/10.1016/j.ijedro.2025.100473>
14. Aderibigbe, S.A., Omar, M., Elmehti, H., Colucci-Gray, L. et al. Critical Factors influencing Faculty's Swift Transition Experience to Virtual Learning Environments During Emergencies. *Turkish Online Journal of Distance Education* 26(2), 228–251 (2025). <https://doi.org/10.17718/tojde.1489878>
15. Elmehti, H.M., Begum, S., Ramachandran, K., Malathi, B., Hasan, K., Al-Qawasmeh, R.A. & Shehadi, I.A. Ternary Fe₃O₄-CeO₂/g-C₃N₄ nanocomposite: A magnetically reclaimable, visible light-active catalyst for efficient degradation of bisphenol A. *Journal of Water Process Engineering* 77, 108320 (2025).
16. Elmehti, H.M., Ramachandran, K., Abuzaid, M.M. & Elshami, W. Monte Carlo quantification of organ doses and risks in chest X-ray projections. *Advances in Biomedical and Health Sciences* (2025). DOI: 10.4103/abhs.abhs_16_25
17. Elmehti, H.M., Ramachandran, K., Al-Khalaileh, S.T., Ahmed, S.E., Daoudi, K. & Gaidi, M. Distribution of Naturally Occurring Radioactive Materials (NORMs) in Sharjah: Geological Drivers and Public Health Implications. *Case Studies in Chemical and Environmental Engineering* 11, 101150 (2025). <https://doi.org/10.1016/j.cscee.2025.101150>
18. Yuosef, F., Elmehti, H.M. et al. The effect of n-type and p-type semiconductors on the photoconversion of colchicine: Experimental and computational study. *Journal of Chemical Sciences* 137, 54 (2025). <https://doi.org/10.1007/s12039-025-02376-9>
19. Elmehti, H.M. & Ibrahim, A.M. Perception on Hybrid Learning During Digital Transformation. In: *Informatics, Technologies and Digitalization in the Age of Transformation*, pp. 3. Springer (2025).
20. Aderibigbe, S., Omar, M., AlOthman, H., Elmehti, H. et al. Sustaining the Quality of E-Learning in Trying Educational Climates. In: *Informatics, Technologies and Digitalization in the Age of Transformation*, pp. 25. Springer (2025).
21. Elmehti, H.M., Aderibigbe, S.A. & Omar, M. Enhancing Online Teaching Practices for Undergraduate Physics Students: Perspectives During COVID-19. In: *Informatics, Technologies and Digitalization in the Age of Transformation*, pp. 13. Springer (2025).
22. Elmehti, H.M., Ramachandran, K., Jayapriya, M. et al. Rapid catalysis of textile dyes with SnO₂/ZnO nanocomposite fabricated by green chemistry and its antibacterial properties. *Arabian Journal of Science and Engineering* (2025). <https://doi.org/10.1007/s13369-024-09000-z>

2024 - Journal Articles & Edited Proceedings

23. Kadid, Z., Ramachandran, K., Hamil, S., Albedwawi, S.J.O.K., Columbus, S., Elmehti, H.M. et al. Ecofriendly magnetic nanocomposite (Fe₃O₄/SiO₂/Ag) fabrication for sustainable dye wastewater management: catalysis and SERS for a cleaner approach. *Environmental Science and Pollution Research* (2024).
24. Omar, M., Arab, M.G., Alotaibi, E., Alshibli, K.A., Shanableh, A., Elmehti, H. et al. Natural soils' shear strength prediction: A morphological data-centric approach. *Soils and Foundations* 64(6), 101527 (2024).
25. El-Naggar, M., Hasan, K., Khanfar, M.A., Delmani, F.A., Shehadi, I.A., Al-Qawasmeh, R. & Elmehti, H.M. Synthesis, crystal structure, Hirshfeld surface analysis, and DFT calculation of a novel triazole-pyridine compound. *Heliyon* 10(22) (2024).
26. Elmehti, H.M., Ramachandran, K., Gaidi, M. & Daoudi, K. Diurnal and seasonal influence on indoor radon levels in dwellings of Sharjah Emirate and estimation of annual effective dose. *Case Studies in Chemical and Environmental Engineering* 100663 (2024).
27. Elmehti, H.M., Ramachandran, K., Chidambaram, S., Mani, G.T., Pandiaraj, S., Alqarni, S.A. et al. Diode characteristics, piezo-photocatalytic antibiotic degradation and hydrogen production of Ce³⁺ doped ZnO nanostructures. *Chemosphere* 350, 141015 (2024).
28. SICPAM Proceedings: 1st Sharjah International Conference on Physics of Advanced Materials. Elmehti, H.M. (Ed.). IOP Publishing, *Journal of Physics: Conference Series* 2751 (2024).

2023 - Journal Articles, Edited Books & Conference Papers

29. Osaili, T.M., Ismail, L.C., Elmehti, H.M. et al. Comparison of students' perceptions of online and hybrid learning modalities during COVID-19: The case of the University of Sharjah. *PLOS ONE* 18(3) (2023).
<https://doi.org/10.1371/journal.pone.0283513>
30. Omar, M., Alotaibi, E., Arab, M.G., Shanableh, A., Malkawi, D.A.H., Elmehti, H. & Tahmaz, A. Harnessing nature-inspired soft computing for reinforced soil bearing capacity prediction. *International Journal of Geosynthetics and Ground Engineering* 9(4), 53 (2023).
31. Al Naimiy, H.M.K., Bettayeb, M., Elmehti, H.M. & Shehadi, I. (Eds.). *Future Trends in Education in Post COVID-19*. Springer Nature (2023). ISBN: 9789819919277.
32. Al Naimiy, H.M.K., Bettayeb, M., Al Gharabeh, F., Elmehti, H.M. & Shehadi, I.A. (Eds.). *Sustainability, AI and Innovation: Proceedings of the ARHSS 2023*. Springer Nature (2025).
33. Al Naimiy, H.M.K., Elmehti, H.M. & Shehadeh, I. (Eds.). *Bright Insights on Arabs and Muslims History of Sciences*, Vols. I & II. Sharjah Institute for Heritage (2023).
34. Al Naimiy, H.M.K., Bettayeb, M., Elmehti, H.M. (Eds.). *Proceedings of the 14th Arabic Conference of the Arab Union for Astronomy and Space Sciences (AUASS-CONF23)*. Springer Nature (2025).
<https://link.springer.com/book/9789819632756>
35. Elmehti, H. & Tato, A. Acoustic Comfort in Hybrid Learning Spaces: Students Perspective. *INTER-NOISE and NOISE-CON Congress and Conference Proceedings*, Vol. 265, No. 3 (2023). Institute of Noise Control Engineering.
36. Elmehti, H. & Tato, A. Assessing Acoustic Conditions in Hybrid Classrooms with COVID-19 Social Distancing at the University of Sharjah. *INTER-NOISE and NOISE-CON Congress and Conference Proceedings*, Vol. 265, No. 3 (2023). Institute of Noise Control Engineering.
37. Elmehti, H.M., Ibrahim, A.M. & Zaid, Z.A. Proactive Targeted Academic Advising Approach for Students Under Academic Probation and At-Risk Students. In: *Future Trends in Education Post COVID-19*, pp. 351. Springer Nature (2023).
38. Al Naimiy, H.M.K., Elmehti, H.M. & Shehadeh, I. (Eds.). *Teaching and Learning in the Post COVID-19 Era: Employability Skills Driven Curriculum*. Sharjah Institute for Heritage (2023). ISBN: 978-9948-772-60-6. (Published in Arabic.)

2022 - Journal Articles, Book Chapters & Conference Papers

39. Al Naimiy, H.M.K., Bettayeb, M. & ElmeHdi, H.M. Successful Higher Education Continuity Plans Amid and Beyond the Pandemic: University of Sharjah Model. UNESCO Knowledge Product Award, World Higher Education Conference, UNESCO, May 2022.
40. ElmeHdi, H.M., Qawasmeh, R.A., Gamouz, A.A., Arooj, M., Hasan, K. & Shehadi, I.A. Research-Based Learning (RBL), Curriculum, and Courses in Undergraduate Science Education in the Post-COVID-19. In: Sharjah International Conference on Education in Post COVID-19, pp. 181–189. Springer Nature Singapore (2022).
41. ElmeHdi, H. & Sanjinez, M. Re-evaluation of acoustic quality in lecture halls using G and C50: University of Sharjah Case Study. INTER-NOISE and NOISE-CON Congress and Conference Proceedings, Vol. 263, No. 2. Institute of Noise Control Engineering (2022).

2020–2021 - Journal Articles & Conference Papers

42. ElmeHdi, H.M. Assessing traffic noise in the City of Sharjah using prediction models. INTER-NOISE and NOISE-CON Congress and Conference Proceedings, Vol. 263, No. 2, pp. 4520–4525. InterNoise21, Washington D.C. (2021). DOI: 10.3397/IN-2021-2725
43. ElmeHdi, H. & Sanjinez, M. Evaluation of acoustic quality in lecture halls using onsite measurements and survey questionnaire. INTER-NOISE and NOISE-CON Congress and Conference Proceedings, Vol. 261, No. 5. Institute of Noise Control Engineering (2020).
44. ElmeHdi, H.M., Dalah, E.Z. & Zgallai, W. Pediatricians Awareness of Radiation Protection, Relative Effective Dose and Inherent Risk in Computed Tomography Imaging: UAE Case Study. IEEE ASET International Conferences (2020). DOI: 10.1109/ASET48392.2020.9118357
45. ElmeHdi, H.M. et al. Retention at the University of Sharjah: Factors and Strategies. IEEE ASET International Conferences (2020).
46. Dalah, E.Z., Araz, S., Bilal, G.T., Noorajan, Z., El Mehdi, H. & Zgallai, W. Evaluating and comparing a pediatric cervical-supine image quality obtained using different digital radiography machines: phantom study. IEEE ASET International Conferences (2020).
47. Zawam Dalah, E., Hamed Elshahawy, H.A., Mohamed Abdi, A., ElmeHdi, H.M. & Zgallai, W. AGFA PACS software supported CT, MRI and PET windows impact on object appearances and size: phantom study. IEEE ASET International Conferences (2020).
48. ElmeHdi, H.M. & Ibrahim, A.M. Online Summative Assessment and Its Impact on Students' Academic Performance, Perception and Attitude Towards Online Exams: University of Sharjah Study Case. In: Creative Business and Social Innovations for a Sustainable Future. Advances in Science, Technology & Innovation. Springer, Cham, pp. 211–218 (2020). https://doi.org/10.1007/978-3-030-01662-3_24
49. Ibrahim, A.M. & ElmeHdi, H.M. Engagement for sustainable development in higher education: a systemic approach and self-improvement tool. 1st International Conference on Sustainable Development (March 2021).
50. ElmeHdi, H.M. A Novel Nondestructive Ultrasonic Velocity and Attenuation Approach for Sustainable Quality Prediction of Wheat-Based Products. In: Sustainable Development and Social Responsibility, Volume 2: Proceedings of the 2nd American University in the Emirates International Research Conference (AUEIRC'18). Springer International Publishing (2020).

2018–2019 - Journal Articles, Edited Proceedings & Conference Papers

51. Dalah, E.Z., ElmeHdi, H.M., Al Humaidan, K.S. & Semerjian, L. Estimate of UAE commercial aircrew effective doses using CARI-6, EPCARD and SIEVERT codes. Radiation Protection Dosimetry 185(1), 109–115 (2019). <https://doi.org/10.1093/rpd/ncy280>
52. ElmeHdi, H.M. (Ed.). 1st Sharjah International Conference on Particle Physics, Astrophysics and Cosmology, 11–13 November 2018, University of Sharjah. IOP Publishing, Journal of Physics: Conference Series 1258, 011002 (2019). DOI: 10.1088/1742-6596/1258/1/011002

53. Ibrahim, A.M., Elmekawy, T. & Elmehti, H.M. A Hybrid Particle Swarm Optimization and Simulated Annealing (PSO-SA) Algorithm for Scheduling a Flowshop Manufacturing Cell with Sequence Dependent Setup Times. The Journal of Engineering Science and Computing (JESC) 1(2), Article II (December 2019).
54. Elmehti, H.M., Dalah, E.Z. & Bakhronov, K. Estimates of radon concentration in underground water in the UAE. Sixth International Conference on Water, Energy and Environment (ICWEE/6), American University of Sharjah, UAE (March 2019).
55. Elmehti, H.M. & Bettayeb, A. Student Experience and Performance towards Converting to Online Exams. Blackboard Teaching & Learning Conference, Russia, Middle East and Africa (Bb TLC RMEA), Dubai, UAE (March 2019).
56. Elmehti, H.M., Dalah, E.Z. & Bakhronov, K. Associated Health Effects of Radon Concentration in Water in the United Arab Emirates. International Conference on Engineering Innovations in Healthcare, IEEE ASET International Conferences, Dubai (March 2019).
57. Dalah, E.Z., Obaideen, A., Elmehti, H.M., Adas, O. & Al Dubhani, H.W.A. University Hospital Sharjah Diagnostic Reference Levels for Multi-detector CT Examinations. International Conference on Engineering Innovations in Healthcare, IEEE ASET International Conferences, Dubai (March 2019).
58. Dalah, E.Z., Mahdi, O., Elshami, W., Abuzaid, M.M., David, L.R., Mira, O.A., Obaideen, A., Elmehti, H.M. & Bradley, D.A. Occupational doses to cardiologists performing fluoroscopically-guided procedures. Radiation Physics and Chemistry 153, 21–26 (2018). <https://doi.org/10.1016/j.radphyschem.2018.09.008>
59. Elmehti, H.M. A Novel Nondestructive Ultrasonic Velocity and Attenuation Approach to Predict Quality of Wheat-based Products. 2nd AUE International Research Conference: Sustainable Development and Social Responsibility, Dubai, UAE (November 2018).
60. Elmehti, H.M. Assessing Noise Levels in University of Sharjah Classrooms using Measurements and Predictive Models. Proceedings of INTER-NOISE 2018, Chicago (2018).

2016–2017 - Journal Articles, Book Chapters & Conference Papers

61. Elmehti, H.M. Road traffic noise in major UAE cities: Levels and projected health effects. Current Politics and Economics of the Middle East 8(2), 151–166 (2017).
62. Elmehti, H.M., Alrabati, Y., Altunaji, A. & Kamel, A. Improving the academic standing of students under probation through targeted proactive academic advising. International Forum for Engineering Education (IFEE), University of Sharjah (April 2017).
63. Elmehti, H.M. & Ibrahim, A. Using Design of Experiment to Investigate Factors Influencing Students' Academic Performance in Postsecondary Institutions: Case Study, University of Sharjah. International Forum for Engineering Education (IFEE), University of Sharjah (April 2017).
64. Elmehti, H.M., Alrabati, Y., Altunaji, A. & Kamel, A. The role of online admission and social media in attracting top quality students in competitive markets. Arab ACRAO Conference (2017).
65. Elmehti, H.M., Bettayeb, A. & Raghad, A. Utilizing Online Assessment, Gamification, Collaboration & Course Design Tools to Improve Students' Performance at the University of Sharjah. Blackboard TLC, Bocconi University, Milan, Italy (March 2017).
66. Elmehti, H.M., Page, J.H. & Scanlon, M.G. An ultrasonic approach to investigate the effect of aeration on rheological properties of soft biological materials with bubbles embedded. Proceedings of the 22nd International Congress on Acoustics (ICA 2016), Buenos Aires (September 2016).
67. Elmehti, H.M., Rashid, B. & Ibrahim, A. Enhanced Force Concept Inventory (FCI) Test to Probe Freshmen Engineering Students' Conceptual Understanding of Introductory Physics. In: Quality Assurance in Engineering Education, eds. A. Shanableh, K. Hamad, M. Omar & M. Bettayeb. University of Sharjah (2016).
68. Blackboard Innovative Solutions: University of Sharjah (UAE) Case Studies. BbWorld 2016, Las Vegas, USA (2016).

2014–2015 - Journal Articles, Book Chapters & Conference Papers

69. Elmehtdi, H.M. Advances on Ultrasonic Techniques Used for Characterizing Biofoamic Materials. *International Journal of Recent Development in Engineering and Technology*, Special Issue, 1, 31–35 (2014).
70. Elmehtdi, H.M. Road Traffic Noise Exposure and Annoyance: A Cross-Sectional Study in the City of Sharjah, UAE. Chapter 9 in: *Noise Pollution: Sources, Effects on Workplace Productivity and Health Implications*, ed. E.R. Nicchi, p. 321. ISBN 978-1-63321-111-7 (2014).
71. LMS Model at UOS. Blackboard UAE Teaching & Learning Forum: Innovation in Education, Dubai, UAE (November 2015).
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