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Editorial

Advancing Research in Recent Technologies: Editorial of the First Issue

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Abstract-This editorial gives an overview about our newly launched journal, named Advanced Technologies Journal of University of Benghazi. The editorial reports an introduction for the newly launched journal as a scholarly platform for cutting-edge contributions in advanced technologies. Vision and scope of the journal has been summarized with emphasis on its multidisciplinary nature, quality and academic ethics. It also outlines the five articles that have been published in this issue in terms of their significance and contributions and encourages researchers to submit their works for second issue of this year with the major aim of expanding the knowledge boundaries of advanced technologies. It finally concludes by setting the outlook for global research community for sustained and regular publishing across the scope covered in the journal.

Keywords: Advanced Technologies; Cutting-Edge Research; Inaugural Issue; Research Quality; Sustained Publishing.

1 - Introduction

It is our great pleasure to present the first issue of *Advanced Technologies Journal of University of Benghazi (ATJUOB)* published by the University of Benghazi and warmly welcoming readers, researchers, reviewers, editorial and advisory boards. With support and sponsorship of the University of Benghazi, ATJUOB has been launched that aims to publish original research relevant to advanced technologies. ATJUOB is an international

open-access peer-reviewed journal that is currently fully free to submit and publish various types of articles in the field of advanced technologies. The multidisciplinary nature of this journal allows covering variety of science, engineering, and medicine disciplines that are recently used to interact with and/or feed advanced technology. The general target is to regularly publish high quality articles online to enrich readership and global scientific community with current contributions in the journal scope. The journal will target local and international indexing databases such as Scopus, google scholar, and DOAJ, and Directory of Open Access Libyan Journals (DOLJ). Confirming the fact that journal indexing is as important as being as open access. The journal has committed to open access policy, making authors' research more visible, accessible, and at the same time, rigorously peer reviewed with linguistic and scientific refining prior to publication. Internationally recognized editorial and advisory boards have been formed from different countries and institutes, considering diversity in nationalities, gender, and geographic locations of the institutes and Universities of the members of the boards. A robust submission system and website has been established with support of the University of Benghazi. In addition, the journal is supervised by another independent committee named the Scientific Journals Follow-Up Committee of the University of Benghazi who first nominated the editorial and advisory boards to issue the appointment decision by the University President. The next section presents the vision and scope of the journal.

2- Vision and Scope

The general vision is to establish and sustain a recognized and high-quality global forum for digital publishing of articles that have useful contributions to humanity and society. The specific vision is to preserve research with relevance to the rapid growth and evolution to advanced technologies and make it either free or very affordable to get and read. Advanced technologies have positive and negative impacts on human beings; therefore, the vision is not just to praise advanced technologies and show only their revolutionary positive effects on human beings, but may also prove their risks on

humanity, such as health risks and social isolation. Thereby expanding the understanding of advanced technologies as tools, some of which have dual-edged nature. The journal

covers many advanced forms of disciplines related to technology, but not limited to those mentioned here or in the journal website. Advances in engineering disciplines, which have cross-linking of three developed majors of mechanical, electrical, and computer engineering, such as: mechatronics engineering, system engineering, control engineering, neuro-engineering, communication engineering, robotics and smart systems, renewable energy engineering. Keeping Advances in computer science and information technology, which include: machine/deep learning, data science, big data analytics, quantum computing, internet of things (IoT), technology-health Interactions, technology-education Interactions. Thereby, creating a strong link among those fields to deliver robust solutions to recently used technologies.

3- Overview of the articles in the Issue

This issue presents five articles with different types and focuses. The first one is an *invited paper*, under the category of (Perspective article), authored by Prof. Paulo Ribeiro, an IEEE Life Fellow from Federal University of Itajubá, Itajubá, Minas Gerais, Brazil. The article presents a philosophical system engineering perspective on energy storage in electrical grids, that has influenced today's shape and characteristics of modern power systems. The second article is a systematic review paper about airlines IT audit challenges and success factors, authored by Ms. Shahed Al Tamimi et al. from IT Department, Community College of Qatar (CCQ), Doha, Qatar, and contributed to the security, compliance, and optimum operation of aviation's IT systems, which include air-ground communication, navigation aids, aeronautical surveillance, and system-wide information management. The third article authored by Dr. Doha Jdeed and Mr. Mohamed Aldiry from Tartus University, Syria, where it is categorized as the type of (Original Research Article) and reports an important scientific investigation into an emerging phenomenon affecting photovoltaic solar energy systems in the coastal areas of Tartous, Syria, namely the

formation of white spots on solar cells, linking it to quantitative measurements of solar panel performance, which helps energy auditors in initial energy audits (Walk-Through Energy Audits). The fourth article, authored by Dr. Amenh Yousif et al. from University of Benghazi and contributed as original article within the scope of Health-Technology interactions. The article shows the effect of digital games on children's health and academic performance in Benghazi in 2025. The fifth article authored by Mawada Algaddari et al. from the University of Benghazi, which contributes in wireless communication scope through investigating the integration of Intelligent Reflecting Surface (IRS) technology into Terahertz (THz) wireless communication systems to enhance transmission reliability and coverage. The next section presents the conclusion and the way forward.

4- The Way Forward

The future outlook is to strengthen the requirements of the journal by remaining committed with rigorous peer-review process and open access policy for quality and accessibility of research. We welcome more contributions from researchers worldwide and shall start targeting local and international indexing.

5- Conclusion

In conclusion, this issue has been shown as a significant milestone for ATJUOB with considerable contributions that reflect diversity, usefulness, informative, and significance of some contemporary achievements and issues in advanced technologies. Our sincere thanks to authors, reviewers, editorial board, advisory board, and the scientific journals follow-up committee of University of Benghazi whose significant effort that made the launch of this journal and issue possible.

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