

ain shams engineering journal

A Critical Analysis of Ain Shams Engineering Journal: Impact and Current Trends

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Keywords: Ain Shams Engineering Journal, engineering research, journal impact factor, publication trends, scholarly publishing, Egyptian engineering, open access, citation analysis, research dissemination.

Abstract: This analysis critically examines the Ain Shams Engineering Journal, assessing its impact on current trends in engineering research and its position within the broader scholarly landscape. We explore its publication metrics, thematic focus, geographical reach, and overall contribution to the dissemination of knowledge within the engineering community. The analysis considers the journal's strengths and weaknesses, identifying areas for potential improvement and future development.

1. Introduction: The Role of Ain Shams Engineering Journal in the Engineering Publication Landscape

The Ain Shams Engineering Journal (ASEJ) plays a significant role in disseminating engineering research from Egypt and the wider region. Understanding its impact necessitates a thorough examination of its performance metrics, editorial policies, and influence on current trends in various engineering disciplines. This analysis aims to provide a comprehensive overview of the journal's position within the global engineering publication sphere, highlighting its contributions and identifying

areas for further enhancement. The journal's commitment to open access publication is a notable aspect deserving of careful consideration within the context of broader access to scientific knowledge.

2. Publication Metrics and Impact Factor of Ain Shams Engineering Journal

A key metric for evaluating the impact of any academic journal is its impact factor (IF). While the Ain Shams Engineering Journal's IF may not rival those of top-tier international journals, it's crucial to contextualize this within the regional context. The journal's IF reflects the average number of citations received per article published in the preceding two years. Analyzing the citation patterns provides insights into the journal's influence and the reach of its published research. Further investigation into other metrics, such as the h-index and altmetrics, can provide a more nuanced understanding of the journal's scholarly impact. Analyzing the citation sources also reveals the international collaboration profile of the journal's authors and the geographical distribution of its readership, highlighting ASEJ's reach.

3. Thematic Focus and Research Trends in Ain Shams Engineering Journal

The Ain Shams Engineering Journal covers a broad range of engineering disciplines. A detailed analysis of the articles published over the past few years reveals the dominant themes and research areas. This allows us to identify emerging trends and the journal's contribution to these areas. The identification of thematic concentrations within the journal can reveal strengths and potential areas for expansion or diversification to better reflect current research priorities within the global engineering community. For example, examining the number of publications related to renewable energy, sustainable engineering, or artificial intelligence within Ain Shams Engineering Journal provides valuable data on the journal's alignment with current global priorities.

4. Geographical Reach and Author Demographics of Ain Shams Engineering Journal

Assessing the geographical distribution of authors and citations provides a clear understanding of the journal's global reach. A predominantly regional focus might suggest opportunities to attract international submissions and expand its global influence. Analyzing the demographics of authors, including gender representation, can highlight potential areas for improvement in fostering inclusivity and diversity within the engineering research community.

5. Strengths and Weaknesses of Ain Shams Engineering Journal

The Ain Shams Engineering Journal presents several strengths. Its open access model ensures wider accessibility to its published research, democratizing the dissemination of knowledge. However, it also faces challenges common to many journals, particularly those based in developing regions. These might include limitations in resources, competition from established international journals, and the need for continuous improvement in editorial processes and peer review practices. Further enhancement of the journal's online presence and use of digital tools for improved dissemination are areas for consideration.

6. Future Directions and Potential for Improvement of Ain Shams Engineering Journal

To enhance its impact, the Ain Shams Engineering Journal should consider strategies to attract more international submissions, strengthen its peer-review process, and further develop its online presence through better website design and search engine optimization. Investing in training for editors and reviewers can further improve the quality of the publication. Collaborations with international journals and organizations can also boost the journal's visibility and global recognition.

7. Conclusion

The Ain Shams Engineering Journal serves as a valuable platform for disseminating engineering research within Egypt and the broader region. While its impact factor and global reach may be limited compared to some leading international journals, its open-access model and commitment to publishing research relevant to the region are commendable. By addressing its identified weaknesses and proactively pursuing strategies for improvement, the Ain Shams Engineering Journal can further solidify its position within the global scholarly landscape and contribute significantly to advancing engineering knowledge and innovation.

FAQs

1. What is the current impact factor of the Ain Shams Engineering Journal? The impact factor fluctuates and should be checked on reputable databases like Clarivate Analytics' Journal Citation Reports (JCR).

1. Is Ain Shams Engineering Journal peer-reviewed? Yes, it is a peer-reviewed journal.

1. What are the submission guidelines for Ain Shams Engineering Journal? Detailed submission guidelines are available on the journal's official website.

1. What are the publication fees for Ain Shams Engineering Journal? Information regarding

publication fees should be sought on the journal's website.

1. What disciplines does Ain Shams Engineering Journal cover? The journal covers a wide range of engineering disciplines, specific details are available on the journal's website.

1. How long is the publication process for Ain Shams Engineering Journal? The publication time varies; it's best to check the journal's website for estimated timelines.

1. Is Ain Shams Engineering Journal indexed in any major databases? Check the journal's website for a list of indexing databases, typically including Scopus, Web of Science, or similar.

1. How can I contact the editorial board of Ain Shams Engineering Journal? Contact information for the editorial board is typically available on the journal's website.

1. What is the journal's policy on open access? Ain Shams Engineering Journal operates under an open-access model, making articles freely available online.

Related Articles

1. "The Impact of Open Access on the Dissemination of Engineering Research: A Case Study of Ain Shams Engineering Journal." This article would analyze the effects of the journal's open-access policy on its readership and citation metrics.
1. "Citation Analysis of Ain Shams Engineering Journal: Trends and Patterns." This article would examine citation trends to understand the journal's influence within specific research areas.
1. "A Comparative Analysis of Ain Shams Engineering Journal and Other Regional Engineering Journals." This would compare the journal with its regional counterparts in terms of impact, scope, and publication practices.
1. "The Role of Ain Shams Engineering Journal in Fostering Engineering Research in Egypt." This focuses on the journal's contribution to the development of engineering research within Egypt.
1. "Analyzing the Thematic Focus of Ain Shams Engineering Journal: Emerging Trends and Research Priorities." This investigates the dominant research themes published in the journal and their alignment with current global trends.

1. "Peer Review Practices in Ain Shams Engineering Journal: A Critical Assessment." This evaluates the effectiveness of the journal's peer review process.
1. "The Sustainability of Ain Shams Engineering Journal's Open Access Model." This article analyzes the economic and logistical sustainability of the journal's open-access strategy.
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1. "Improving the Visibility and Impact of Ain Shams Engineering Journal through Digital Strategies." This examines strategies for enhanced online presence and digital marketing to increase the journal's reach and impact.

ain shams engineering journal: A hybrid Fuzzy C-Means and Neutrosophic for jaw

lesions segmentation Mutasem K. Alsmadi, It is really important to diagnose jaw tumor in its early stages to improve its prognosis. A differential diagnosis could be performed using X-ray images; therefore, accurate and fully automatic jaw lesions image segmentation is a challenging and essential task. The aim of this work was to develop a novel, fully automatic and effective method for jaw lesions in panoramic X-ray image segmentation. The hybrid Fuzzy C-Means and Neutrosophic approach is used for segmenting jaw image and detecting the jaw lesion region in panoramic X-ray images which may help in diagnosing jaw lesions. Area error metrics are used to assess the performance and efficiency of the proposed approach from different aspects. Both efficiency and accuracy are analyzed. Specificity, sensitivity and similarity analyses are conducted to assess the

robustness of the proposed approach.

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ain shams engineering journal: Maintenance, Safety, Risk, Management and Life-Cycle Performance of Bridges Nigel Powers, Dan Frangopol, Riadh Al-Mahaidi, Colin Caprani, 2018-07-04
Maintenance, Safety, Risk, Management and Life-Cycle Performance of Bridges contains lectures and papers presented at the Ninth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2018), held in Melbourne, Australia, 9-13 July 2018. This volume consists of a book of extended abstracts and a USB card containing the full papers of 393 contributions presented at IABMAS 2018, including the T.Y. Lin Lecture, 10 Keynote Lectures, and 382 technical papers from 40 countries. The contributions presented at IABMAS 2018 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of bridge maintenance, safety, risk, management and life-cycle performance. Major topics include: new design methods, bridge codes, heavy vehicle and load models, bridge management systems, prediction of future traffic models, service life prediction, residual service life, sustainability and life-cycle assessments, maintenance strategies, bridge diagnostics, health monitoring, non-destructive testing, field testing, safety and serviceability, assessment and evaluation, damage identification, deterioration modelling, repair and retrofitting strategies, bridge reliability, fatigue and corrosion, extreme loads, advanced experimental simulations, and advanced computer simulations, among others. This volume provides both an up-to-date overview of the field of bridge engineering and significant contributions to the process of more rational decision-making on bridge maintenance, safety, risk, management and life-cycle performance of bridges for the purpose of enhancing the welfare of society. The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems, including students, researchers and engineers from all areas of bridge engineering.

ain shams engineering journal: *Technology-mediated Learning During the Pandemic* Jitendra Singh, Vikas Kumar, 2024-06-21
This volume discusses the emergence of information and communication technology (ICT)-based teaching and learning during the Covid-19 pandemic as a potential alternative to traditional classroom-based learning. It presents a collection of theories, practices, and case studies from across the globe and covers different aspects of education from a multidisciplinary perspective. While focusing on the various opportunities that surfaced while carrying out innovative experiments in the online learning space, the book discusses pedagogical challenges and the need for a shift in teaching pedagogy towards online learning. It outlines the existing learning theories, reasons behind their failure, and new theories that emerged to fill the need for new methods for delivery of content and pedagogy. The book discusses the issues faced by stakeholders, including institute administrators, students, and teachers to prepare for this new method of teaching and learning. It highlights the role of virtual laboratories in supplementing the needs of students in the remote learning environment. The book also discusses the role and impact of social media as a powerful tool of learning and educational communication. This book will be of interest to teachers, students, and researchers of education, higher education, digital education, information technology, educational psychology, and media studies. It will also be useful for courses on e-learning, educationalists, policymakers, educational institutions, online education centres, and practitioners working in the related areas.

ain shams engineering journal: *Microgrids* Ghous Bakhsh Narejo, Biswaranjan Acharya, Ranjit Singh Sarban Singh, Fatma Newagy, 2021-10-12
The book addresses the needs of researchers on the fundamentals as well as more advanced knowledge on microgrids and their evolution. This book covers newly emerging trends in fields such as Computer Science, Energy, Electrical Engineering, and Electronics and brings the reader up-to-date on the new emerging fields that play

an important role in the power infrastructure. This book provides knowledge on decision making for newly evolving trends in microgrid design. It discusses techniques on how to improve the existing power quality and reduce load shedding and power imbalances. The book presents the emerging fields that now play an important role in microgrid design such as Data Science, Machine Learning, AI, and IT. The readership includes researchers, academia, practicing engineers, consumers, power companies and policy makers located across the globe.

ain shams engineering journal: Computing and Simulation for Engineers Ziya Uddin, Mukesh Kumar Awasthi, Rishi Asthana, Mangey Ram, 2022-06-29 This book presents the reader with comprehensive insight into various kinds of mathematical modeling and numerical computation for problems arising in several branches of engineering, such as mechanical engineering, computer science engineering, electrical engineering, electronics and communication engineering, and civil engineering. The book: • Discusses topics related to clean and green energy production and storage • Bridges the gap between core theory and costly industrial experiments • Covers advanced biomechanics and nanodrug delivery topics • Explores diversified applications of mathematical techniques to solve practical engineering problems The text in this book emphasizes mathematical treatment of soft computing, image and signal processing, fluid flows in various geometries, biomechanics, biological modeling, a mathematical description of the solar cell, analytical and numerical treatment of problems in fracture mechanics, and antenna design modeling. It also discusses the numerical computations of biomechanics problems and problems arising in cryptography. The text further covers optimization techniques that are useful for real-world problems. This material is primarily written for graduate students and academic researchers in a number of engineering fields, including electrical, electronics and communication, industrial, manufacturing, mechanical, computer science, and mathematics.

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ain shams engineering journal: Proceedings of the 4th International Conference on Informatics, Technology and Engineering 2023 (InCITE 2023) Markus Hartono, Hudiyo Firmanto, Connie Susilawati, 2023-11-18 This is an open access book. Adaptive, Resilient & Collaborative Engineering Towards Faster Recovery & Impactful Solutions The world in the last decade has been facing global issues such as accelerated global warming, depleting natural resources, food waste and scarcity, water contamination and shortage, energy conservation, etc. Enter the COVID-19 pandemic in 2020 and we face what people term as double disruption. Not only solutions to the above problems are becoming more critical, but they are also needed fast. Timely and effective solutions are called for so that we can recover from the pandemic while at the same time carry our efforts to better our world. It is no longer sufficient to find solutions that can only delay the negative impacts from the above problems, but it is imperative to tip the balance and reverse the impacts to our advantage. Engineers and engineering have a vital role in inventing mechanisms, systems, and/or products that can address the solutions. Digital technologies and

artificial intelligence have been at the forefront of such exploration and we can expect some hints for a better future, if we continue being adaptive, resilient, and collaborative. Given the above background, Faculty of Engineering - Universitas Surabaya, will host the fourth bi-annual international conference "The 4th International Conference on Informatics, Technology and Engineering 2023 (InCITE 2023)" in Yogyakarta, Indonesia, September 14th-15th, 2023. This event is a continuation of the past events successfully held in 2017, 2019, and 2021. We invite academia and business practitioners all around the globe to share ideas and best practices relevant to the above conference topic. We hope that this event can also serve as a platform of gathering for anyone interested in exploring potential solutions of our common problems today. Accepted and presented paper will be submitted for publication in reputable International Proceeding (Atlantis Press). See you in Yogyakarta!

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ain shams engineering journal: **Remapping Urban Heat Island Atlases in Regenerative Cities** Abusaada, Hisham, Elshater, Abeer, Khalifa, Marwa, 2022-06-17 In the past decades, protecting the urban environment in the face of environmentalism and environmental rights has become crucial to saving the planet from the dangers of the rapid urban development of new cities and societies. Air temperature is one of the factors influenced by climate change and contemporary city morphology that lacks compact city features. Contemporary cities have taken on global paradigms, adopting open-fabric, multiple, and ultrahigh residential towers and superhuman-scale spaces at the level of squares and public parks. This type of planning results in a radical thermal transformation not only in the movement and transportation network, but also in all public spaces and their external spaces. It is essential to understand the dimensions and principles of urban planning and design in conjunction with the competence of environmental design to reduce the impact of the urban heat island (UHI) phenomenon. Remapping Urban Heat Island Atlases in Regenerative Cities focuses on public health and wellbeing, decent work and economic growth, sustainable cities and societies, and climate action. It presents atlases of UHI-based digital techniques and methods of modelling as well as the use of these atlases, mapping, and models in exploring the placemaking problems in the new cities. Covering topics such as artificial intelligence, pedestrian density mapping, and urban heat island mitigation, this premier reference source is a critical resource for architects, city planners, urban planners, city officials, government officials, policymakers, non-profit organizations, politicians, engineers, libraries, students and educators of higher education, researchers, and academicians.

ain shams engineering journal: **Mathematical Modelling of Fluid Dynamics and Nanofluids** Katta Ramesh, Fateh Mebarek-Oudina, Basma Souayeh, 2023-09-29 Mathematical Modelling of Fluid Dynamics and Nanofluids serves as a comprehensive resource for various aspects of fluid dynamics simulations, nanofluid preparation, and numerical techniques. The book examines the practical implications and real-world applications of various concepts, including nanofluids, magnetohydrodynamics, heat and mass transfer, and radiation. By encompassing these diverse domains, it offers readers a broad perspective on the interconnectedness of these fields. The primary

audience for this book includes researchers and graduate students who possess a keen interest in interdisciplinary studies within the realms of fluid dynamics, nanofluids, and biofluids. Its content caters to those who wish to deepen their knowledge and tackle complex problems at the intersection of these disciplines.

ain shams engineering journal: Maximizing Fulfillment at Work Bren Slusser, 2024-10-08 This practical workbook provides guidance for applying tacit knowledge to the field of Human Resource Management (HRM) to promote positive workplace culture and creativity. Based on theories presented in *Examining Creativity in the Workplace* by Nahanni Freeman and Bren Slusser, the workbook looks at five key areas of tacit knowledge, showing its importance in any organization to promote creativity and innovation in the workplace. Each section begins with a summary of key research and concepts that are supported by case studies, discussion questions and other practical activities to solidify understanding of the terms and ideas learned and unlock optimal team performance. With its accessible structure, it highlights how cultural diversity is a must within any organization for the successful formation of social networks where tacit knowledge can be transferred, and suggests how HRM activities and best practices are critical for increasing engagement and fostering a positive working environment that lets innovation thrive. Suitable as a standalone text or alongside *Examining Creativity in the Workplace*, this workbook is the ideal resource for use as part of corporate-level training for practitioners, as well as in the classroom for scholars and postgraduate students in Human Resource Management and Behavioral Psychology programs.

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- Describes various problems and solutions that arise in applied and environmental microbiology using scientific technologies
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- Explores the current understanding of bacterial signaling through examples of communication systems that include signaling in gram-positive and gram-negative bacteria
- Shows the presence of all kinds of microbes in the natural environment for the removal of organic pollutants through various emerging technologies

ain shams engineering journal: Advances in Data Science and Computing Technology Suman Ghosal, Amitava Choudhury, Vikram Kumar Saxena, Arindam Biswas, Prasenjit Chatterjee, 2022-11-24 This volume helps to address the genuine 21st century need for advances in data science and computing technology. It provides an abundance of new research and studies on progressive and innovative technologies, including artificial intelligence, communication systems, cyber security applications, data analytics, Internet of Things (IoT), machine learning, power systems, VLSI, embedded systems, and much more. The book presents a variety of interesting and important aspects of data science and computing technologies and methodologies in a wide range of applications, including deep learning, DNA cryptography, class fuzzy MPPT controller, driving assistance, and safety systems. Novel algorithms and their applications for solving cutting-edge computational and data science problems are included also for an interdisciplinary research

perspective. The book addresses recent applications of deep learning and ANN paradigms, the role and impact of big data in the e-commerce and retail sectors, algorithms for load balancing in cloud computing, advances in embedded system based applications, optimization techniques using a MATLAB platform, and techniques for improving information and network security. *Advances in Data Science and Computing Technology: Methodology and Applications* provides a wealth of valuable information and food for thought on many important issues for data scientists and researchers, industry professionals, and faculty and students in the data and computing sciences.

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ain shams engineering journal: Evolutionary Optimization of Material Removal Processes Ravi Pratap Singh, Narendra Kumar, Ravinder Kataria, Pulak Mohan Pandey, 2022-12-23 The text comprehensively focuses on the concepts, implementation, and application of evolutionary algorithms for predicting, modeling, and optimizing the various material removal processes from their origin to the current advancements. This one-of-a-kind book encapsulates all the features related to the application and implementation of evolutionary algorithms for the purpose of predicting and optimizing the process characteristics of different machining methods and their allied processes that will provide comprehensive information. It broadly explains the concepts of employing evolutionary algorithm-based optimization in a broad domain of various material removal processes. Therefore, this book will enable prospective readers to take full advantage of recent findings and advancements in the fields of traditional, advanced, micro, and hybrid machining, among others. Moreover, the simplicity of its writing will keep readers engaged throughout and make it easier for them to understand the advanced topics. The book- • Offers a step-by-step guide to implement evolutionary algorithms for the overall optimization of conventional and contemporary machining processes • Provides in-depth analysis of various material removal processes through evolutionary optimization • Details an overview of different evolutionary optimization techniques • Explores advanced processing of various engineering materials-based case studies It further discusses different nature-inspired algorithms-based modeling, prediction, and modeling of machining responses in attempting advanced machining of the latest materials and related engineering problems along with case studies and practical examples. It will be an ideal reference text for graduate students and academic researchers working in the fields of mechanical engineering, aerospace engineering, industrial engineering, manufacturing engineering, and materials science.

ain shams engineering journal: Advances in Renewable Energy and Electric Vehicles Sanjeevikumar P., Nagesh Prabhu, Suryanarayana K., 2021-08-20 This book presents select proceedings of the International Conference on Advances in Renewable Energy and Electric Vehicles (AREEV 2020), and examines related emerging trends, feasible solutions to shape and enable the development of mankind. The topics covered include renewable energy sources, electric vehicles, energy storage systems, power system protection & security, smart grid and wide band-gap

semiconductor technologies. The book also discusses applications of signal processing, artificial neural networks, optimal and robust control systems, and modeling and simulation of power electronic converters. The book will be a valuable reference for beginners, researchers, and professionals interested in power systems, renewable energy, and electric vehicles.

ain shams engineering journal: River Basin Management IX C.A. Brebbia, S. Boukalova, 2017-09-26 Forming the 9th volume from this successful international conference series, this book marks a growing global interest in the planning, design and management of river basin systems. The included papers take in to account all aspects of Hydrology, Ecology, Environmental Management, Flood Plains and Wetlands. In recent years, work on river restoration and rehabilitation has had various degrees of success. Changes in the landscape, use of the land and climate conditions lead to a continuous revaluation of river basin management objectives requiring the development of better measuring tools in conjunction with accurate computer technology. Floods and associated landslides, erosion and sedimentation can have serious effects on life and property and on the basin ecology. Man made changes in the river basin can also create significant problems. The following subject areas are covered in the publication: Water resources management; Flood risk management; Ecological and environmental impact; Erosion and sediment transport; Hydrological modelling; River restoration and rehabilitation; Hydropower issues and development; River and watershed management; Water quality issues; Organic contamination management; Agricultural pollution; Transboundary water issues; Estuaries and deltas; Climate change; Remote sensing; Hydraulic structures; Rain water management; Water energy nexus; Drought assessment and management; Ecosystem services.

ain shams engineering journal: Resource Recovery in Drinking Water Treatment Mika Sillanpaa, Ali Khadir, Khum Gurung, 2023-07-20 Resource Recovery in Drinking Water Treatment concentrates on techniques and methods for water purification. The book develops a new approach—resource recovery—toward drinking water, including the role of methods (adsorption, membrane, ion - exchange, biosorption, coagulation, etc.) and nanocomposites (such as biochar, sludge-based composites, chitosan, polymer, magnetic particles, etc.) in water resource recovery. It provides an in-depth overview on emerging water treatment techniques and the resource recovery of materials during the treatment process. Finally, the book aims to introduce polluted waters as new and sustainable sources rather than seeing wastewaters only a source of hazardous organic and inorganic matters. This book is part of a three-volume set that stresses the importance of contaminated water remediation, including surface waters, municipal or industrial wastewaters, and waters as a new source of nutrients, minerals and energy. Presents novel approaches to recover materials from water during treatment Discusses fundamentals and principals of water treatment to figure out current status and need for new development Includes applications of various composites and particles in water treatment and water recovery

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