

INNOVATION IN SCIENCE AND TECHNOLOGY



VOLUME 4 NUMBER 7 AUGUST 2025

ISSN 2788-7030

INNOVATION IN SCIENCE AND TECHNOLOGY

PARADIGM ACADEMIC PRESS LIMITED

UNIT G25 WATERFRONT STUDIOS, 1 DOCK ROAD, LONDON, UNITED KINGDOM

TELEPHONE: 0044 2084 323 088

E-MAIL office@paradigmpress.org



Published by Paradigm Academic Press Limited

Editorial Board

Dr. Mohammad Arif Kamal Aligarh Muslim University	Prof. Dr. Moni Wekesa Commissioner for Oaths & Notary Public, Moni Wekesa & Co. Advocates
Dr. Ahmed M. El Naim Department of Crop Sciences, Faculty of Natural Resources, University of Kordofan, Elobeid, Sudan	Dr. Sanjeev Patwa School of Engineering and Technology, Mody University, Lakshmangarh, Sikar Rajasthan
Dr. Jasim Mohammed Saleh Ministry of High education / Department of Environmental Biotechnology, Biotechnology and Environmental Center, University of Fallujah, Iraq	Dr. Harishchander Anandaram Assistant Professor, Centre for Computational Engineering and Networking, Amrita Vishwa Vidyapeetham, Coimbatore, Tamil Nadu, India
Prof. Yu. K. Mashunin Public and Municipal Administration at Far Eastern Federal University, Russia	Dr. Salawu Ahmed Department of Architecture, Federal University of Technology, Minna, Nigeria
Ph.D. Jude Opara Sure Foundation Polytechnic, Ukanafun	Dr. Dps Rathore Independent Researcher
Adrian Sfarti CS Dept, 387 Soda Hall, UC Berkeley, CA, USA	Venkata Bheemreddy Missouri University of Science and Technology, United States
Mohammed A.Abd Ali Misan University, College of Sciences Biology Department, Iraq	James Brereton University Centre Sparsholt, Hampshire
Dana George Cottrell Electrical Engineer, 7269 W. Brubeck Ct. Tucson, Arizona 85743	Maged G. Bin -Saad Department of Mathematics, Aden University, Khormaksar, Aden, Yemen
Oluchukwu Chukwuemeka Asogwa Alex Ekwueme Federal University Ndufu Alike, Department of Maths and stats Statistics (Experimental Design)	Dr. P K Dash Professor and Mentor, Aerospace Department, School of Engineering and Technology, Sandip University, Nashik, Maharastra – 422213, India
José Ignacio Rojas Sola Department of Engineering Graphics, Design and Projects, University of Jaen, Campus de las Lagunillas, s/n, 23071 Jaen, Spain	Rahila Shaheen Institute of Physics, Research and Experimental Laboratory, Khwaja Fareed, University of Engineering and Information Technology, Rahim Yar Khan, 64200, Punjab, Pakistan
Somnath Ghosh Dept. of Civil Engineering, Jadavpur University, Kolkata, India	Gboyega Oluwaseun Oyeleke Department of Science Laboratory Technology, Osun State Polytechnic, Iree
Olubukola Olusola-Makinde Department of Microbiology, Federal University of Technology, Akure, Nigeria	Ang-yang Yu Heilongjiang Vocational College of Biology Science and Technology
Nelson P. Rocha Institute of Electronics and Informatics Engineering (IEETA), Department of Medical Sciences of the University of Aveiro, Aveiro, 3810-193, Portugal	Isham Alzoubi University of Tehran School of Surveying Geospatial Engineering- Department of Surveying and Geomatics Engineering

Copyright

Innovation in Science and Technology (ISSN 2788-7030) is published under a Creative Commons (CC BY) license. All articles published by Paradigm Academic Press are published in full open access, meaning unlimited use and reuse of articles, in addition to giving credit to the authors. Readers shall have the right to copy and distribute articles in this journal in any form in any medium, and may also modify, convert or create on the basis of articles. In sharing and using articles in this journal, the user must indicate the author and source, and mark the changes made in articles. Copyright © Paradigm Academic Press Limited. All Rights Reserved.

Aims and Scope

Innovation in Science and Technology (ISSN 2788-7030) is an international, peer-reviewed journal that publishes original research articles, reviews and commentaries of science and technology. The journal provides an advanced forum for technological studies to both technology researchers and professionals in related disciplines. *Innovation in Science and Technology* aims to establish a forum for publishing the innovative research in the field and contribute to the further development of the science and technology which is of fundamental importance for the future. Preference is given to contributions on research results whose feasibility has been demonstrated either in a laboratory or in the industrial praxis. Case studies and review papers on specific issues in science and technology are equally encouraged.

The main subject areas include, without being limited to the following:

- Aerospace
- Astronomy
- Biology
- Computer Science and Technology
- Chemistry
- Geology
- Marine Sciences
- Mathematics
- Metallurgical Engineering
- Mechanical Engineering
- Physics
- Surveying and Mapping

Submissions

We are seeking submissions for the forthcoming issues. Authors should submit manuscripts written in professional English. Manuscripts with 3,000-10,000 words in length are preferred. All manuscripts should be prepared in OpenOffice, Microsoft Word, or RTF document file format. Focus issue manuscript should be submitted at: <https://www.paradigmpress.org/IST>, or sent to: office@paradigmpress.org.

Editorial Process

Stage 1: The author submits a manuscript and will receive a paper ID.

Stage 2: Immediately after submission, the journal’s Managing Editor will perform an initial check to assess:

- (1) Overall suitability of the manuscript to the journal;
- (2) Manuscript adherence to high quality research and ethical standards;
- (3) Standards of rigor to qualify for further review.

Stage 3: Peer review and revision — all manuscripts are sent for peer review.

Stage 4: Acceptance for publication.

Stage 5: Process the APC payment + VAT (where applicable). No additional charges apply.

Stage 6: Technical/copyediting, layout, and proofreading.