IJASTE

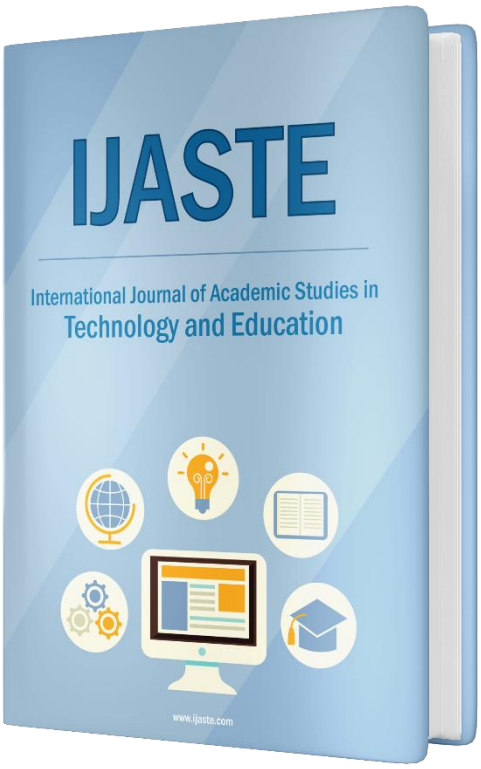
e-ISSN: 2980-2105

International Journal of Academic Studies in Technology and Education

Year 2024 - Vol 2, No 2

www.ijaste.com

International Journal of Academic Studies in Technology and Education (IJASTE)



e-ISSN: 2980-2105

IJASTE is double blind peer review international academic journal

Volume 2, No 2

Year 2024

Editor in Chief

Dr. Mustafa Tevfik Hebebci, *Necmettin Erbakan University*, Turkiye

Editor

Dr. Fatih Kaleci, *Necmettin Erbakan University*, Turkiye

Section Editors

Dr. Gang Zhu, *East China Normal University*, China

Dr. Helen Crompton, *Old Dominion University*, United States

Dr. Liyana Shuib, *University of Malaya*, Malaysia

Dr. Samantha M. Curle, *University of Bath*, United Kingdom

Dr. Tyler S. Love, *University of Maryland Eastern Shore,* United States

Language Editor

Dr. Allen Cook, *University of Bridgeport*, United States

Dr. Areti Maria Sougari, *Aristotle University of Thessaloniki*, Greece

Dr. Ikuya Aizawa, *University of Nottingham*, United Kingdom

Dr. Mojgan Rashtchi, *Islamic Azad University*, Iran

Dr. Oya Tunaboylu, *Kırklareli University*, Turkiye

Editorial Board

Dr. Ali Derakhshan, *Golestan University*, Iran

Dr. Alessandro Barca, *Pegaso Telematic University of Naples*, Italy

Dr. Amalia Casas-Mas, *Complutense University of Madrid*, Spain

Dr. AR. Saravanakumar, *Alagappa University*, India

Dr. Chi-Cheng Chang, *National Taiwan Normal University*, Taiwan

Dr. Ciprian Marius Ceobanu, *Universitatea Alexandru Ioan Cuza*, Romania

Dr. Danielle Gonçalves de Oliveira Prado, *Federal Technological University of Paraná*, Brazil

Dr. Ebenezer Bonyah, *Akenten Appiah-Menka University*, Ghana

Dr. Erick T. Baloran, *University of Mindanao*, Philippines

Dr. Frank Lorne, *New York Institute of Technology*, Canada

Dr. Gulzhaina K. Kassymova, *Abai Kazakh National Pedagogical University*, Kazakhstan

Dr. Habibe Güneş, *Fırat University*, Turkiye

Dr. Ipek Saralar-Aras, *Ministry of National Education*, Turkiye

Dr. Irwanto Irwanto, *Jakarta State University*, Indonesia

Dr. Jayson A. D. Fuente, *Northern Negros State College of Science and Technology*, Philippines

Dr. Jenn Gallup, *Idaho State University*, United States

Dr. Junjie Gavin Wu, *City University of Hong Kong*, Hong Kong

Dr. Maria Susy Rogers, *University of South Wales*, United Kingdom

Dr. Maeve Liston, *Mary Immaculate College*, Ireland

Dr. Mehmet Özaslan, *Gaziantep University*, Turkiye

Dr. Mehmet Özkaya, *Necmettin Erbakan University*, Turkiye

Dr. Ngoni Chipere, *University of the West Indies*, Barbados

Dr. Selahattin Alan, *Selçuk University*, Turkiye

Dr. Salaheldin Farah Attallah Bakhiet, *King Saud University*, Saudi Arabia

Dr. Slaviša Radović, *FernUniversität in Hagen*, Germany

Dr. Stamatios J. Papadakis, *University of Crete*, Greece

Dr. Sun Joo Yoo, *Sookmyung Women' University*, South Korea

Dr. Susan Nachawati, *California State University*, United States

Dr. Soheil H. M. Salha, *An-Najah National University*, Palestine

Dr. Takuya Matsuura, *Hiroshima University*, Japan

Dr. Teresa A. Oliveira, *Universidade Aberta*, Portugal

Dr. Tetiana Vakaliuk, *Zhytomyr Polytechnic State University*, Ukraine

Dr. Waleed Mugahed Al-Rahmi, *Universiti Teknologi Malaysia*, Malaysia

Dr. Yousef Sabbah, *Al-Quds Open University*, Egypt

Desing and Layout

Bünyamin Biçer, *Necmettin Erbakan University*, Turkiye

Technical Support

Naci Küçükgençay, *Ministry of Education*, Turkiye

About the Journal

The International Journal of Academic Studies in Technology and Education (IJASTE) is a peer-reviewed scholarly online journal. The IJASTE is published quarterly in Winter and Summer. The IJASTE is published biannual as an international scholarly, peer-reviewed online journal. There is no publication fee in the IJASTE. The IJASTE is an international journal and welcomes any research papers on technology and education using techniques from and applications in any technical knowledge domain: original theoretical works, literature reviews, research reports, social issues, psychological issues, curricula, learning environments, book reviews, and review articles.

The articles should be original, unpublished, and not in consideration for publication elsewhere at the time of submission to the IJASTE. Authors are solely responsible for ensuring that their articles comply with scientific and ethical standards and for the content of the article. The journal holds the copyright for all published articles. The publisher disclaims any liability for loss, actions, claims, proceedings, demands, or costs or damages whatsoever arising directly or indirectly in connection with or arising out of the use of the research material. Authors, applicable copyright laws and treaties should be observed. Copyrighted material (e.g. tables, figures or large quotations) should be used with appropriate permission and acknowledgment. All authors are required to disclose any actual or potential conflicts of interest, including financial, personal, or other relationships with individuals or organizations related to the submitted work. The work of other authors, contributors or sources cited should be used appropriately and acknowledged in the references.

Submissions

All submissions should be in electronic (.Doc or .Docx) format. Submissions in PDF and other non-editable formats are not acceptable. Papers are accepted only in English. Manuscripts can be submitted through the journal website (https://www.ijaste.com). All manuscripts should use the latest APA 7 style. The manuscript template for formatting is available on the journal website.

Contact Info

International Journal of Academic Studies in Technology and Education (IJASTE)

Email: ijasteoffice@gmail.com

Web: http://www.ijaste.com

Table of Contents

Investigating the Research Trends of Articles on Science Education and Artificial Intelligence
Ayşe Ceren Atmaca Aksoy, Şeyma Irmak 101

Applying Technology and Awareness Integration Theory for Quality Early Childhood Care and Education
Eileen Manoukian, Mary Barbara Trube 129

An Investigation of Science Teachers' Self-Efficacy of Inquiry-Based Teaching Method
Ayşe Elif İnce, Hayriye Nevin Genç 149

Primary School Teachers‘ Self-efficacy and Difficulties in Implementing STEAM Education
Nijolė Cibulskaitė 169

The Effect of Some Variables on Mathematical Resilience: A Regression Model
Berna Yıldızhan Kökten, Erhan Ertekin 187