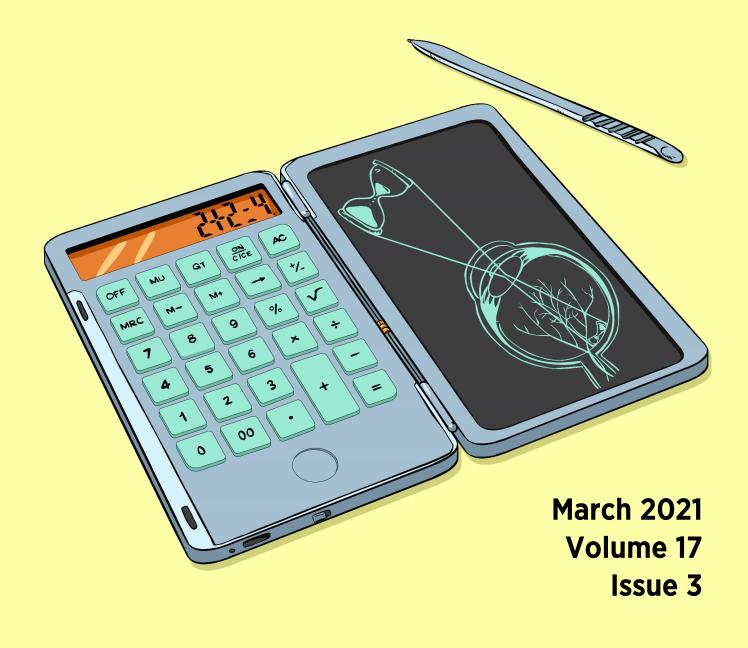
ISSN: 1305-8223

EURASIA JOURNAL OF MATHEMATICS, SCIENCE AND TECHNOLOGY EDUCATION



Published by: Modestum Publishing LTD

Publication Office: 29 Gildredge Road, Eastbourne, East Sussex, BN21 4RU, United Kingdom

Phone: + 44 7432 276676

Email: publications@modestum.co.uk

Publisher: https://modestum.co.uk

Journal Web: https://www.ejmste.com

Twitter: https://twitter.com/ejmste

Facebook: https://www.facebook.com/ejmste

© 2005-2021. All rights reserved by Modestum Publishing LTD. Copyright for Open Access Content is Retained by Authors. Also, authors continue to hold the copyrights of their own papers by acknowledging that their papers are originally published in the Eurasia Journal of Mathematics, Science and Technology Education. Hence, articles published are licensed under a "Creative Commons Attribution 4.0 International License."

ISSN: 1305-8223 (Online)

EURASIA JOURNAL OF MATHEMATICS, SCIENCE AND TECHNOLOGY EDUCATION

March 2021 Volume 17 Issue 3



This page is intentionally left blank

EURASIA JOURNAL OF MATHEMATICS, SCIENCE AND TECHNOLOGY EDUCATION

The Eurasia Journal of Mathematics, Science and Technology Education (Abbrev. EURASIA J. Math., Sci Tech. Ed. or EJMSTE) is an English Open Access peer-reviewed journal publishing articles on all aspects of Mathematics, Science and Technology Education with ISSN: 1305-8223 (online). The journal is published 12 times in a year, and strictly adheres to the principles of the peer review process.

EURASIA Journal of Mathematics, Science and Technology Education encourages submissions from all authors throughout the world. Manuscripts are judged by two experts solely on the basis of their contribution of original data, ideas and their presentation. All manuscripts must comply with Manuscript Preparation Guidelines. Submitted manuscripts must not have been published, accepted for publication or be under consideration elsewhere.

Submissions: EJMSTE has a fully online review system. This system offers authors the convenience of submitting their manuscripts via **EditorialPark**. Please send your manuscripts an MS Word attachment to the editors via the following address: https://www.editorialpark.com/ejmste/

Eurasia Journal of Mathematics, Science and Technology Education (EJMSTE) is a monthly journal published online 12 times annually in January, February, March, April, May, June, July, August, September, October, November, and December.

EJMSTE is indexed and/or abstracted in

- ROAD
- ERIC
- ERIH
- Google Scholar
- Genamics JournalSeek
- PsycINFO
- SCOPUS
- Scimago

Publication of any material submitted by authors does not necessarily mean that the journal, publisher, editors, or any of the editorial board members endorse or suggest the content. Publishing decisions are based and given only on scholarly evaluations. Apart from that, decisions and responsibility for adopting or using partly or in whole any of the methods, ideas or the like presented in EJMSTE pages solely depends on the readers' own judgment.

EDITORIAL BOARD

Editors-in-Chiefs

Chun-Yen CHANG, National Taiwan Normal University (NTNU), TAIWAN

Lianghuo FAN, University of Southampton, UNITED KINGDOM

Editors

Engineering Education

Xiangyun DU, Qatar University, QATAR & UNESCO PBL Center for Engineering and Science Education, Aalborg University, DENMARK

Teen-Hang MEEN, National Formosa University, TAIWAN

Mathematics Education

Kwok Cheung CHEUNG, University of Macau, MACAU Mei-Shiu CHIU, National Chengchi University, TAIWAN Oh Nam KWON, Seoul National University, SOUTH KOREA Joohi LEE, University of Texas at Arlington, USA Sandra NITE, Texas A&M University, USA Chunxia QI, Beijing Normal University, CHINA Alison Castro SUPERFINE, University of Illinois at Chicago, USA Der-Ching YANG, National Chiavi University, TAIWAN **Science Education** Onofrio Rosario BATTAGLIA, University of Palermo, ITALY Hayat HOKAYEM, Texas Christian University, USA Hui JIN, Educational Testing Service, USA Jing LIN, Beijing Normal University, CHINA Silvija MARKIC, University of Education Ludwigsburg, GERMANY Jan Alexis NIELSEN, University of Copenhagen, DENMARK Mariusz PANCZYK, Medical University of Warsaw, POLAND Milan KUBIATKO, Jan Evangelista Purkyně University, CZECH REPUCBLIC Sarantos PSYCHARIS, School of Pedagogical and Technological Education, GREECE Wan NG, University of Technology Sydney, AUSTRALIA

Technology Education

Denise M. BRESSLER, University of Pennsylvania, USA

M. Shane Tutwiler, University of Rhode Island, USA

Tzu-Hua WANG, National Tsing Hua University, TAIWAN (R.O.C.)

Yi-Shun WANG, National Changhua University of Education, TAIWAN

Zacharia ZACHARIAS, University of Cyprus, CYPRUS

Assistant Editors

Jana FANCOVICOVA, University of Trnava, SLOVAKIA E-mail: fankaj@gmail.com

Vanda JANSTOVA, Charles University, Prague, CZECH REPUBLIC E-mail: vanda.janstova@natur.cuni.cz

Editorial Board Members

Mathematics Education

Lyn ENGLISH, Queensland University of Technology, AUSTRALIA

Uwe GELLERT, Freie Berlin University, GERMANY

Anjum HALAI, Aga Khan University, PAKISTAN

Gert KADUNZ, University of Klagenfurt, AUSTRIA

Mailizar MAILIZAR, Syiah Kuala University, INDONESIA

Charis VOUTSINA, University of Southampton, UNITED KINGDOM

Science Education

Fouad ABD-EL-KHALICK, University of Illinois at Urbana-Champaign, USA

Agustin ADÚRIZ-BRAVO, Universidad de Buenos Aires, ARGENTINA

Maria Pilar Jiménez ALEIXANDRE, Universidade de Santiago de Compostela, SPAIN

Michael ALLEN, Kingston University, UK

Kyriacos ATHANASIOU, National and Kapodistrian University of Athens, GREECE

Alipaşa AYAS, Bilkent University, TURKEY

Nélio BIZZO, Universidade de São Paulo, BRAZIL

Saouma BOUJAOUDE, American University of Beirut, LEBANON

Lynn A. BRYAN, Purdue University, USA

Peter C. CORMAS, California University of Pennsylvania, USA

- Colleen T. DOWNS, University of KwaZulu-Natal, SOUTH AFRICA
- Jan H. VAN DRIEL, University of Melbourne, AUSTRALIA
- Ingo EILKS, University of Bremen, GERMANY
- Olle ESKILSSON, Kristianstad University, SWEDEN
- Anna Maria GRUGNETTI, University of Pavia, ITALY
- Gürol IRZIK, Sabanci University, TURKEY
- Marika KAPANADZE, Ilia State Univesity, GEORGIA
- Gregory J. KELLY, The Pennsylvania State University, USA
- Sarika KEWALRAMANI, Monash University, AUSTRALIA
- Vanessa KIND, Durham University, UK
- Vincentas LAMANAUSKAS, University of Siauliai, LITHUANIA
- Jari LAVONEN, University of Helsinki, FINLAND
- Norman G. LEDERMAN, Illinois Institute of Technology, USA
- Rachel MAMLOK-NAAMAN, Weizmann Institute of Science, ISRAEL
- Sonya N. MARTIN, Seoul National University, REPUBLIC OF KOREA
- Mansoor NIAZ, Universidad de Oriente, VENEZUELA
- Pernilla NILSSON, Halmstad University, SWEDEN
- Rolf V. OLSEN, University of Oslo, NORWAY
- Kamisah OSMAN, Universiti Kebangsaan Malaysia, MALAYSIA
- Paul PACE, University of Malta, MALTA
- Pavol PROKOP, Trnava University, SLOVAKIA
- Sarantos PSYCHARIS, School of Pedagogical and Technological Education ASPETE, GREECE
- Martin RUSEK, Charles University, CZECH REPUBLIC
- Rohaida Mohd. SAAT, University of Malaya, MALAYSIA
- Chieh-Jen SHIEH, Huaqiao University, CHINA
- Kenneth TOBIN, The Graduate Center of CUNY, USA

Technology Education

Chin-Chung TSAI, National Chiao Tung University, TAIWAN

Lung Hsiang WONG, Nanyang Technological University, SINGAPORE

CONTENTS

Impact of College Provided Transportation on the Absenteeism and Academic Performance of Engineering Students	em1944
Khaled Shaaban, Ranya Reda https://doi.org/10.29333/ejmste/9727	
Fidele Ukobizaba, Gabriel Nizeyimana, Angel Mukuka	
https://doi.org/10.29333/ejmste/9728	
Investigating In-service Elementary School Teachers' Satisfaction with Participating in MOOC for Teaching Biological Concepts	em1946
Eirini Tzovla, Katerina Kedraka, Christos Kaltsidis	
https://doi.org/10.29333/ejmste/9729	
Ideology in Science Textbooks for Japanese Students in East Asian Colonies: Focusing on Plant Species that Appear in Manchuria Textbooks	em1947
Masafumi Ikeda, Masaya Yamamoto	
https://doi.org/10.29333/ejmste/9757	
The Decision-Making Ability of 10th Grade Students in an Arab Community in Israel to Preserve Sea Turtles	em1948
Sare Asli, Naji Kortam, Shafea Algamal, Najwa Sheme, Muhamad Hugerat	
https://doi.org/10.29333/ejmste/9758	
Bayesian Assessment of Undergraduate Students About the Real Function Mathematical Concept	em1949
Flor Monserrat Rodríguez-Vásquez, Francisco J. Ariza-Hernandez	
https://doi.org/10.29333/ejmste/10776	