

The Eurasia Proceedings of Science, Technology, Engineering & Mathematics

EPSTEM

VOLUME 17 ICRETS CONFERENCE

ISSN: 2602-3199

ISBN: 978-605-73797-8-8

**ICRETS 2022: International Conference on Research in Engineering,
Technology and Science (ICRETS)**

July 01 - 04, 2022

Baku, Azerbaijan

Edited by: Mehmet Ozaslan (Chair), Gaziantep University, Turkey

ICRETS 2022 SEPTEMBER

Volume 17, Pages 1-174 (September 2022)

The Eurasia Proceedings of Science, Technology, Engineering & Mathematics
(EPSTEM)

e-ISSN: 2602-3199

©2022 Published by the ISRES Publishing

Address: Istanbul C. Cengaver S. No 2 Karatay/Konya/TURKEY

Website: www.isres.org

Contact: isrespublishing@gmail.com

Conference: ICRETS2022: International Conference on Research in Engineering,
Technology and Science

Conference website: <https://www.2022.icrets.net>

Dates: July 01 – 04, 2022

Location: Baku, Azerbaijan

Edited by: Mehmet Ozaslan

About Editor(s)

Prof Dr. Mehmet Ozaslan
Department of Biology, Gaziantep University, Turkey
Website: <http://mehmetozaslan.com/>
Email: ozaslanmd@gantep.edu.tr

Language Editor(s)

Assoc. Prof. Dr. Kagan Buyukkarci
Department of English Language Education, Suleyman Demirel University, Turkey
Email: kaganbuyukkarci@sdu.edu.tr

CONFERENCE PRESIDENT

Prof. Dr. Mehmet Özaslan - Gaziantep University, Turkey

SCIENTIFIC BOARD

Besnik Hajdari - University "isa Boletini" Mitrovica, Kosovo
Bogdan Patrut - Alexandru Ioan Cuza Üniversitesi, Romania
Chalavadi Sulochana - Gulbarga University, India
Csaba Antonya - Transilvania University of Brasov, Romania
Dehini Rachid - University of Bechar, Algeria
Eleonora Guseinoviene - Klaipeda University, Lithuania
Elena Krelja Kurelovic - Polytechnic of Rijeka, Croatia
Eva Trnova - Masaryk University, Czech Republic
Farhad Balash - Kharazmi University, Iran
Fundime Miri - University of Tirana, Albania

Gabriel Delgado-Toral - Universidad Nacional Autónoma de México, Mexico
Gordana Savic - University of Belgrade, Serbia
Irina Andreeva - Peter The Great St. Petersburg Polytechnic University, Russia
Isti Hidayah - Semarang State University, Indonesia
Jose Manuel Lopez Guede - University of Basque Country, Spain
Kamil Yurtkan - Cyprus International University, Cyprus
Katsina Christopher Bala - Federal University of Technology, Minna, Nigeria
Khitam Shraim - Palestine Technical University, Palestine
Marija Stanić - University of Kragujevac, Serbia
M. Hanefi Calp - Karadeniz Technical University, Turkey
Mohamed Ahmed - Mansoura University, Egypt
Mousa Attom- American University of Sharjah, U.A.E.
Nicu Bizon - Pitesti University, Romania
Pandian Vasant - Teknology Petronas University, Romania
Rajnakar Laxman - Gulbarga University, India
Sanaa Al-Delaimy - Mosul University, Iraq
Shadi Aljawarneh - Jordan University of Science and Technology, Jordan
Shynar Baimaganbetova - Nazarbayev University, Kazakhstan
Svetlana Khan - Almaty University of Power Engineering and Telecommunications, Kazakhstan
Tunde Anifowose-Kelani, Siegener Sabithos College of Health Science & Technology, Nigeria
Yiyang Chen - Soochow University (CN), China
Zipporah Pewat Duguryil - Federal College of Education, Nigeria

ORGANIZING COMMITTEE

Aynur Aliyeva - Institute of Dendrology of Anas, Azerbaijan
Besnik Hajdari - University "isa Boletini" Mitrovica, Kosovo
Cemil Aydogdu - Hacettepe University, Turkey
Danielle Gonçalves de Oliveira Prado-Federal Technological University of Paraná, Brazil
Dariusz Jacek Jakóbczak - Technical University of Koszalin, Poland
Elman Iskender - Central Botanical Garden of Anas, Azerbaijan
Halil Snopce - South East European University, Macedonia
Ishtar Imad - Uruk University, Iraq
Jaya Bishnu Pradhan-Tribhuvan University, Mahendra Ratna Campus, Nepal
Mohammad Sarwar - Scialert, Dubai, United Arab Emirates
Murat Beytur - Kafkas University, Turkey
Samire Bagirova - Institute of Dendrology of Anas, Azerbaijan
Shafag Bagirova - Baku State University, Azerbaijan
Suhail Bayati - Hadi University College, Iraq
Tunde Anifowose-Kelani, Siegener Sabithos College of Health Science & Technology, Nigeria

Editorial Policies

ISRES Publishing follows the steps below in the proceedings book publishing process.
In the first stage, the papers sent to the conferences organized by ISRES are subject to editorial oversight. In the second stage, the papers that pass the first step are reviewed by at least two international field experts in the conference committee in terms of suitability for the content and subject area. In the third stage, it is reviewed by at least one member of the organizing committee

for the suitability of references. In the fourth step, the language editor reviews the language for clarity.

Review Process

Abstracts and full-text reports uploaded to the conference system undergo a review procedure. Authors will be notified of the application results in three weeks. Submitted abstracts will be evaluated on the basis of abstracts/proposals. The conference system allows you to submit the full text if your abstract is accepted. Please upload the abstract of your article to the conference system and wait for the results of the evaluation. If your abstract is accepted, you can upload your full text. Your full text will then be sent to at least two reviewers for review. **The conference has a double-blind peer-review process.** Any paper submitted for the conference is reviewed by at least two international reviewers with expertise in the relevant subject area. Based on the reviewers' comments, papers are accepted, rejected or accepted with revision. If the comments are not addressed well in the improved paper, then the paper is sent back to the authors to make further revisions. The accepted papers are formatted by the conference for publication in the proceedings.

Aims & Scope

Engineering, technology and basic sciences are closely related fields. Developments and innovations in one of them affect the others. Therefore, **the focus of the conference** is on studies related to these three fields. Studies in the fields of engineering, technology and basic science are accepted to the conference even if they are not associated with other fields. The conference committee thinks that a study in only one field (for example, mathematics, physics, etc.) will contribute to other fields (for example, engineering, technology, etc.) in future studies, even if it is not associated with the presentation at the conference. In line with this perspective, studies in the following fields are accepted to the conference: Biology, Chemistry, Engineering, Mathematics, Physics and Technology. The aim of the conference is to bring together researchers and administrators from different countries, and to discuss theoretical and practical issues in all fields of Engineering, Technology and Basic Sciences.

Articles: 1-17

CONTENTS

Synthesis and Characterization of Gold/Silver Bimetallic Nanoparticles Using Trastuzumab: An Enhanced Anti-Cancer Activity / Pages: 1-5
Muhammad SAFDAR, Mehmet OZASLAN

Synthesis of Iron-containing Nanoparticles from Iron-Steel Industrial Waste for Adsorption of Malachite Green / Pages: 6-18
Deniz UZUNOGLU, Ayla OZER

On Tzitzeica Curves According to Q-Frame in Euclidean 3-Space / Pages: 19-25
Muhammed Talat SARIAYDIN, Aziz YAZLA

The Role of Project Management in Cyber Warfare with the Support of Artificial Intelligence / Pages: 26-37
Oszkar DOBOS, Agnes CSISZARIK-KOCSIR

Efficiency Evaluation of Cyber Security Based on EBM-DEA Model / Pages: 38-44
Van Thanh Tien NGUYEN, Chia-nan WANG, Fu-chiang YANG, Thi Minh Nhut VO

Examination of Energy Efficiency of Air Handling Unit with Integrated Air to Air Heat Exchanger in Cooling Mode / Pages: 45-52
Slav VALCHEV, Ivan MIHAILOV

Synthesis and Fluorimetric Application of Novel Schiff Base Compound Containing Imidazole / Pages: 53-59
Onder ALICI, Duygu AYDIN

Analysis of the Performance and Emission Characteristics of Biokerosene with 2-Ethylhexyl Nitrate Additive / Pages: 60-68
Ayhan UYAROGLU, Mahmut UNALDI

Efficient Decolorization of Anionic Dye (Methyl Blue) by Natural-Based Biosorbent (nano-Magnetic Sophora Japonica Fruit Seed Biochar) / Pages: 69-82
Okan BAYRAM, Elif KOKSAL, Emel MORAL, Fethiye GODE, Erol PEHLIVAN

Design and Experiments of a Foldable Wheeled-Mobile Robot / Pages: 83-89
Turgay ERAY

Parametrical Analysis for Symmetrical Loading of a Single-Span Composite String Steel Structure / Pages: 90-101
Edmundas BEIVYDAS

Technical, Economic and Environmental Comparison of Three Different Grid-Connected PV Tracking Systems Power Plant Under Kurdistan Region/Iraq Climate Condition / Pages: 102-119
Veen Sagvan QADER, Omar Mohammed ALI, Nawfal Idrees HASAN

Implementation of Essence Practice into Bayesian Networks / Pages: 120-128
Lidiya IVANOVA, Denis ZMEEV, Oleg ZMEEV

Identifying the Antecedents of Public Trust in the Citizen-Centric E-Governance / Pages: 129-135
Seyed Mohammadbagher JAFARI, Sara NIKBAKSH, Parvane KOMIJANI, Fatemeh KARIMI

Centrifugal Pump Design: An Optimization / Pages: 136-151
Van Thanh Tien NGUYEN, Thi Minh Nhut VO

Artificial Intelligence in HR: Practices and Prospects of the Spread in Ukraine / Pages: 152-160
Svitlana TSYMBALIUK, Alla VASYLYK, Olga BILYK

The Effectiveness of Kindergarten Buildings in Jordan: Shaping the Future toward Child-Friendly Architecture / Pages: 161-174
Shaden ABUSAFIEH, Nouran MUWAHID, Rawan MUWAHID, Lama ALHAWATMAH