

International Conference on Academic Studies in **SCIENCE, ENGINEERING & TECHNOLOGY**

December 13-15, 2025

Istanbul/TURKEY

ICASET2025

13-15 December Istanbul/TURKIYE

PROGRAM BOOK



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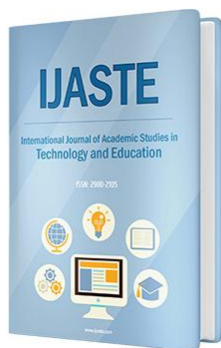
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Current Academic Studies in Technology and Education 2025 are peer-reviewed scholarly online books. The invited papers are reviewed by at least two international reviewers with expertise in the relevant subject area. The book has a double-blind review.

PARTICIPATING COUNTRIES









December 13, 2025 - Saturday	
11.00-...	Conference Registration
12.45-13.00	Opening Ceremony
13.00-13.30	Keynote Speech 1: " Major Trends in Current Educational Research " Dr. Yuliang Liu <i>Southern Illinois University Edwardsville, United States</i>
13.30-14.00	Keynote Speech 2: " Let IT Dance - Teaching Algorithms and Computational Thinking Through Dance and Music " Dr. Corinna Hörmann <i>University of Salzburg, Austria</i>
14.00-14.30	Break
14.30-16.00	Oral Presentation
16.00-17.30	Poster Presentation

December 14, 2025 - Sunday	
09.00-10.30	Session - Oral Presentation
10.30-11.00	Break
11.00-12.30	Session - Oral Presentation
12.30-14.00	Lunch
14.00-15.30	Session - Oral Presentation
15.30-16.00	Break
16.00-17.30	Session - Oral Presentation

November 15, 2025 - Monday	
14.00-15.30	Session - Oral Presentation (Virtual)
15.30-17.00	Session - Oral Presentation (Virtual)

Zoom Link: <https://arste.org/connect>

NOTE: The preferred time zone is 3 hours ahead of Greenwich Mean Time for the conference organized according to the time zone of Istanbul, Turkiye (GMT+3).







MEETING ROOM		
SESSION 1: December 13, 2025 - Saturday 14.30-16.00		
CHAIRS	Mustafa Tevfik Hebebcı, Oktavina Pandango	
ARSTE06	BRIDGING THEORY AND PRACTICE: A SIMULATION-DRIVEN E-MODULE FOR GLOBAL MATHEMATICS EDUCATION <i>Aulia Al Tsani Izzati*</i>	
ARSTE07	SCIENCE LITERACY IN THE 21ST CENTURY: A BIBLIOMETRIC REVIEW OF RESEARCH TRENDS AND FOCUS AREAS <i>Foniman Saragi*, Amprasto</i>	
ARSTE04	CAUSES AND IMPACTS OF STUDENTS' ATTITUDES AND BELIEFS TOWARDS PHYSICS: A SYSTEMATIC LITERATURE REVIEW <i>Oktavina Pandango*, Sentot Kusairi, Sujito Sujito</i>	
ARSTE05	"SYSTEMATIC LITERATUR REVIEW: A DIGITAL-BASED MATH LEARNING INTERVENTION FOR STUDENTS WITH AUTISM SPECTRUM DISORDER" <i>Hanita Dian Lestari*</i>	
ARSTE02	INTEGRATING AL-QUR'AN VALUES AND NDONESIAN LOCAL WISDOM INTO NEWTON'S LAWS FOR PHYSICS LEARNING IN SOCIETY 5.0 : HOW IT WORKS? <i>Fati Matur Riska*, Parno Parno, Nasikhudin Nasikhudin, Syahwin Syahwin, Rachmat Rizaldi, Sheila Fitriana, Tri Astuti Mardiana</i>	
ARSTE03	POP-UP BOOK KINEMATICS: AN EDUCATIONAL APPLICATION BASED ON REAL MOTION ANIMATION AND FORMATIVE FEEDBACK <i>Shinta Nuriyah Mahbubiyah Royani*, Sutopo Sutopo</i>	

* Corresponding author






MEETING ROOM

POSTER SESSION: December 13, 2025 - Saturday 16.00-17.30







CHAIRS	Hadjoudja Bouzid, Souhaila Dalichaouche	
ARSTE059	FINITE ELEMENT MODELING OF THE THERMAL FRICTION CUTTING OF TI-5553 TITANIUM ALLOY <i>Saule Ainabekova*, Ayim Yesirkepova, Sabit Magavin, Nadezhda Kuzminova, Ergali Aynabekov, Akzharkyn Ibraeva, Yernat Imanbayev</i>	
ARSTE010	SYNTHESIS AND CHARACTERIZATION OF COFe ₂ O ₄ NANOMATERIALS PREPARED BY THE ULTRASONIC SPRAY PYROLYSIS TECHNIQUE <i>Hadjoudja Bouzid*, Hadjoudja Hani, Gagui Souheyla, Chouial Baghdadi</i>	
ARSTE030	ANTIOXIDANT AND IMMUNOMODULATORY ACTIVITIES OF PAPAVER RHOEAS <i>Nacer Amraoui*</i>	
ARSTE039	INVESTIGATION OF THE DEFORMATION SCHEMES OF DURING ASYMMETRIC ROLLING IN RELIEF ROLLS <i>Yevgeniy Panin*, Abdrakhman Naizabekov, Sergey Lezhnev, Aibol Esbolat, Dmitry Panin, Nikita Lutchenko, Dmitry Kuis</i>	
ARSTE032	APPLICATION OF ARTIFICIAL INTELLIGENCE FOR THEORETICAL PREDICTION OF MECHANICAL PROPERTIES IN FILAMENT-WOUND COMPOSITE TUBES <i>Sara Srebrenkoska*, Sasko Dimitrov, Vineta Srebrenkoska, Dejan Krstev</i>	
ARSTE017	STATISTICAL REFINEMENT OF LANTHANUM RECOVERY IN NITRATE MEDIUM BY NANOFILTRATION PROCESS <i>Feriel Ghitri, Nasreddine Belkhouche*, Nacera Benyahia, Meryem Mesli, Zyneb Sefrou</i>	
ARSTE034	OPTIMIZATION OF PRODUCTION PROCESSES BY DEFINING PRIORITIES WITH ANALYTIC HIERARCHY PROCESS (AHP) <i>Dejan Krstev*, Sasko Dimitrov, Sara Srebrenkoska, Vineta Srebrenkoska</i>	

ARSTE012	EFFECT OF A DIET RICH IN AROMATIC AND MEDICINAL PLANTS ON BODY WEIGHT EFFECT OF A DIET RICH IN AROMATIC AND MEDICINAL PLANTS ON BODY WEIGHT <i>Souhaila Dalichaouche*, Oumnia Ogab, Hadjer Hamani</i>	
ARSTE031	MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF THE BALL MILLED AND CONSOLIDATED AL- MN-CU ALLOY <i>Abdelaziz Bouasla*</i>	
ARSTE045	MATERIAL CULTURAL HERITAGE VALORIZATION USING 3D LASERGRAMMETRY "CASE OF THE SIDI BOUMEDIENE MOSQUE" <i>Abdelhadi Benabdallah*</i>	
ARSTE023	INVESTIGATION OF LIQUID FILM DYNAMICS RESULTING FROM VERTICAL JET IMPINGEMENT ON A HORIZONTAL SURFACE <i>Nadia Chalal*, Mohamed Aksouh, Amina Mataoui</i>	
ARSTE041	SIMULATION AND ANALYSIS OF HEAT TRANSFER AND CURE PROGRESSION IN THE PULTRUSION OF THERMOPLASTIC COMPOSITES <i>Vineta Srebrenkoska*, Razieh Izadi, Salim Belouettar, Sara Srebrenkoska, Sashko Dimitrov, Dejan Krstev</i>	
ARSTE051	CONTEXT-AWARE FAIRNESS-ORIENTED MIXTURE MODELING FOR KNOWLEDGE TRACING WITH EDUCATIONAL DIALOGUES <i>Fan Zhang*, Wanli Xing</i>	

* Corresponding author

MEETING ROOM		
SESSION 2: December 14, 2025 - Sunday 09.00-10.30		
CHAIRS	Habchi Mohammed, Mahmoud Odeh	
ARSTE022	AESTHETIC MATERIALIST: A DISCUSSION ON THE INTERDISCIPLINARY TEACHING MODEL IN CONTEMPORARY ART EDUCATION <i>Meiho Chen*</i>	
ARSTE058	ANALYZING TEACHER TURNOVER IN RURAL SCHOOLS USING NATIONAL EDUCATIONAL DATABASE OF KAZAKHSTAN <i>Danagul Nurmukhamed*, Adiya Ibrayeva, Alexandr Pilipenko</i>	
ARSTE048	IMPACT OF EMERGING TECHNOLOGIES ON QUALITY ASSURANCE IN HIGHER EDUCATION INSTITUTIONS IN DEVELOPING COUNTRIES <i>Mahmoud Odeh*</i>	
ARSTE044	INTERACTION EERGY COMPUTATION AND HRMC SIMULATION COMBINATION FOR SOLVATION STRUCTURE OF AQUEOUS LICL STUDY <i>Habchi Mohammed*</i>	
ARSTE049	ANALYZING THE CURRENT STATUS OF MENTAL HEALTH AMONG SYRIAN ADOLESCENTS IN POST-CONFLICT SETTINGS: A MULTIVARIATE QUANTITATIVE STUDY OF RECOVERY NEEDS, RISK FACTORS, AND COPING AND SUPPORT PATTERNS <i>Dujana Baroudi, Hasan Marwan Harac*</i>	

* Corresponding author

MEETING ROOM		
SESSION 3: December 14, 2025 - Sunday 11.00-12.30		
CHAIRS	Panagiotis (Takis) Kagialis, Belmekki Mohammed	
ARSTE030	TEACHING AGAINST STEREOTYPES: USING MOHJA KAHF'S THEORETICAL IDEAS TO EMPOWER YOUNG ARAB/MUSLIM FEMALE STUDENTS <i>Leyla Bouallegue*</i>	
ARSTE035	DIGITAL ARCHIVES AND THEIR USE IN LITERATURE AND CREATIVE WRITING COURSES; THE CASE OF THE CAVAFY ARCHIVE <i>Panagiotis (Takis) Kagialis*</i>	
ARSTE026	TEACHING CULTURAL STUDIES THROUGH POSTCOLONIAL LITERATURE: FOSTERING EMPATHY AND CRITICAL THINKING IN THE CLASSROOM <i>Nadjiba Bouallegue*</i>	
ARSTE043	ON A NEW CONCEPT OF DIFFERENTIATION AND INTEGRATION <i>Belmekki Mohammed*</i>	
ARSTE059	THE STRUCTURAL EVOLUTION OF NUMBER SYSTEMS AND THEIR POSSIBLE PEDAGOGICAL IMPLICATIONS <i>Naci Kucukgencay*</i>	
ARSTE019	DEVELOPMENT AND CHARACTERIZATION OF CELLULAR MATERIALS BASED ON CONSTRUCTION WASTE <i>Benhaoua Fayrouz*, Stiti Nacira, Aoufi Djalila, Lamri Younes, Toubane Mehdi, Messaid Bachir Eddine</i>	

* Corresponding author

MEETING ROOM

SESSION 4: December 14, 2025 - Sunday 14.00-15.30

CHAIRS	Sasko Dimitrov, Sergey Lezhnev	
ARSTE026	ANALYTICAL INVESTIGATION OF THE FREE VIBRATION BEHAVIOR OF NANOCOMPOSITE BEAMS RESTING ON ELASTIC FOUNDATIONS <i>Khaldi Amira*, Tekili Sabiha, Khadri Youcef</i>	
ARSTE067	CAMELLIA JAPONICA-ASSISTED SYNTHESIS OF WO ₃ NANOPARTICLES: A DUAL APPROACH TO GREEN CHEMISTRY AND CANCER THERAPY <i>Humaira Khan*</i>	
ARSTE033	DYNAMIC PROCESSES IN HYDRAULIC SYSTEMS DURING SIMULTANEOUS OPERATION OF A PRESSURE RELIEF AND PRESSURE REDUCING VALVE <i>Sasko Dimitrov*, Sara Srebrenkoska, Dejan Krstev, Vineta Srebrenkoska</i>	
ARSTE063	A NEW 3D ANALYTICAL METHOD FOR CALCULATING THE DISTRIBUTION OF CRITICAL CURRENT DENSITY IN A HIGH TEMPERATURE SUPERCONDUCTING DYNAMO <i>Azzouza Asma*</i>	
ARSTE038	A VARIANT OF IMPROVING THE EXISTING TECHNOLOGICAL DEFORMATION SCHEME "RADIAL-SHEAR ROLLING WITH BACKPRESSURE" <i>Sergey Lezhnev*, Abdrakhman Naizabekov, Evgeniy Panin, Alexandr Arbuz, Dmitry Kuis, Olga Starchenko, Nikita Lutchenko, Pavel Tsyba</i>	
ARSTE016	EXPERIMENTAL DATA AND THERMODYNAMIC MODELING OF THE LIQUID-LIQUID EQUILIBRIUM TERNARY SYSTEM (WATER + 2-PROPANOL + FLUOROBENZENE) AT SEVERAL TEMPERATURES <i>Fouzia Amireche*, Malika Chaou</i>	
ARSTE069	INVESTIGATING THE MECHANICAL BEHAVIOR OF FRICTION STIR SPOT WELDED AA7075 JOINTS WITH CU INTERLAYERS USING DIGITAL IMAGE CORRELATION <i>Hadji Idir*, Boutaghou Zoheir, Badji Riad</i>	

* Corresponding author

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SESSION 6: December 15, 2025 - Monday 14.00-15.30

CHAIRS Oumar Dia, George Antoniou

ARSTE035 NEURAL NETWORK-BASED PI CONTROL MODEL FOR A VOLTAGE INVERTER WITH AN OUTPUT LC FILTER: STUDY OF THD IN RESPONSE TO LOAD VARIATION
Oumar Dia, Ibrahima Gueye, Moustapha Diop, Abdoulaye Kebe*



ARSTE062 ESTABLISHMENT AND VALIDATION OF STERILITY TEST OF LEVOFLOXACIN LACTATE PERFUSION USING MEMBRANE FILTRATION
*Eva Troja**



ARSTE068 PATTERNS OF LLM WEAPONIZATION: A COMPARATIVE ANALYSIS OF EXPLOITATION INCIDENTS ACROSS COMMERCIAL AI SYSTEMS
*George Antoniou**



ARSTE057 CHALLENGES IN IMPLEMENTING BUSINESS INTELLIGENCE (BI) AND COMPETITIVE INTELLIGENCE (CI) IN THE ENERGY SECTOR IN ALBANIA: A COMPREHENSIVE ANALYSIS
*Eva Hyna**



ARSTE05 THE ROLE OF WORKING MEMORY IN ACADEMIC READING: EXAMINING THE RELATIONSHIP BETWEEN WORKING MEMORY AND READING COMPREHENSION IN ENGINEERING EDUCATION
*Gellian Solaña, Darry Mhei Morales**










ARSTE065 SPATIAL AND TEMPORAL VARIATION OF CO₂ LEVELS IN DIFFERENT TERMINALS OF DURRES PORT
*Milidin Bakalli**



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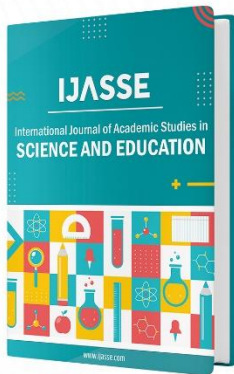
SESSION 4: December 15, 2025 - Monday 15.30-17.00

CHAIRS	Seidu Sofo, Lonora Hysolli	
ARSTE054	PHYSICAL EDUCATION TEACHER CANDIDATES' EXPERIENCES, ATTITUDES, AND INTENTIONS TO TEACH EDUCATIONAL DANCE IN K-12 SCHOOLS <i>Seidu Sofo*, Adolfo Ramos, Emmanuel Thompson</i>	
ARSTE055	MIGRATION, DEMOGRAPHICS AND RETURN INTENTIONS: A STUDY OF CROATIAN CITIZENS IN BAVARIA <i>Monika Balijs*, Tamara Bodor, Marica Marinović Golubić</i>	
ARSTE057	NATURAL LANGUAGE PROCESSING–BASED AUTOMATIC SCORING OF TURKISH OPEN-ENDED EXAM RESPONSES: A SYSTEMATIC REVIEW <i>Wafa Hamdi*, Mustafa Ozan Yavuz</i>	
ARSTE046	4C-BASED PEDAGOGICAL INNOVATION IN UZBEKISTAN'S PRE-SERVICE TEACHER EDUCATION <i>Dilnoza Qurbonova*</i>	
ARSTE033	AUTOMATED DATA COLLECTION AND AI-DRIVEN ANALYSIS PLATFORM FOR MOBILE NETWORKS <i>Sukru Can Ercoban*</i>	
ARSTE042	EVOLUTION AND PRESERVATION OF ETHNOGRAPHIC AND TOPONYMIC ELEMENTS IN THE ERSEKË–LESKOVİK REGION: A LINGUISTIC AND QUANTITATIVE ANALYSIS <i>Lonora Hysolli*</i>	
ARSTE062	CEREBRAL HEMISPHERIC DOMINANCE IN ENGINEERING EDUCATION <i>Pricopie-Filip Alina*, Andrei Mihaela, Oanca Ana Maria</i>	
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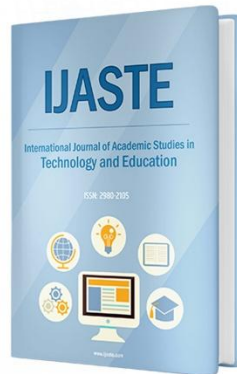


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