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SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS

Doctoral School of Mechanical and Industrial Engineering

PROGRAMME

2024

SCDS-UDJG 2024
The 12th Edition, GALAŢI,
6th-7th of June 2024

THURSDAY – 6th of June 2024

SECTION 1 (online)

ADVANCED RESEARCH IN MECHANICAL AND INDUSTRIAL ENGINEERING

ORAL PRESENTATIONS

Chairs: Elena Scutelnicu, Liliana-Celia Rusu

OP. 1.1 (10:00-10:20)	Mohamed Maktabi, Eugen-Victor-Cristian Rusu	Constant wind analyses on eight floating wind turbines
OP. 1.2 (10:20-10:40)	Dumitru-Silviu Perijoc, Leonard Domnișoru	Global structural response of inland vessels under grounding loading scenarios
OP. 1.3 (10:40-11:00)	Andreea Mândru, Liliana-Celia Rusu, Florin-Dimitrie Păcuraru	Scale Effects on Ship Hydrodynamics in Calm Water and Regular Head Wave Conditions
OP. 1.4 (11:00-11:20)	Răzvan Sebastian Crăciun, Virgil Gabriel Teodor	Numerical Representation of Objects – Representation of 3D Bodies

POSTER SESSION

Chairs: Gabriel Frumușanu, Leonard Domnișoru

PP.1.1 (11:20-11:30)	Maria Gherghișan, Costel-Iulian Mocanu	Studies on the Replacement of Traditional Materials Used in the Construction of Sports Boats and Yachts up to 70 Meters with Al-Fabric-Al Type Materials
PP.1.2 (11:30-11:40)	Adriana-Mădălina Țurcanu (Constantinescu), Felicia Stan, Cătălin Fetecău	Analysis of the Mechanical Properties of the Ceramic-based Restorative Materials using Instrumented Indentation Technique
PP.1.3 (11:40-11:50)	Cristian Țilea, Felicia Stan, Ionuț Laurențiu Sandu, Cătălin Fetecău	Considerations on the 3D printing of organic structures
PP.1.4 (11:50-12:00)	Adriana (Silion) Patilea, Liliana-Celia Rusu	A more comprehensive picture of Renewable energies in the Black Sea nowadays
PP.1.5 (12:00-12:10)	Andreea Liliana Lazăr, Adrian Cîrciumaru	The influence of Y_2O_3 nanoparticles on the polymeric membrane properties
PP.1.6 (12:10-12:20)	George-Gabriel Cotoc, Liliana-Celia Rusu, Florin-Dimitrie Pacuraru	Investigating Roll Parameters for a 3D-Printed Ship Model
PP.1.7 (12:20-12:30)	Marin Romeo, Cristian Munteniță, Valentin Amorțilă	Assessment of repairing method of degraded wind turbine blades
PP.1.8 (12:30-12:40)	George Bălășoiu, Valentin Amorțilă, Costel Humelnicu	Artificial neural network based method for the optimization of brake materials
PP. 1.9 (12:40-12:50)	Marin Romeo, Cristian Munteniță, Costel Humelnicu	Investigation on impact degradation of wind turbine blades
PP. 1.10 (12:50-13:00)	Valerian Novac, Eugen-Victor-Cristian Rusu, Carmen-Marilena Gasparotti	Using a genetic algorithm to enhance the safety of the Black Sea naval operations
PP. 1.11 (13:00-13:10)	Alexandru Viorel Vasiliu, Christian Popescu, Cătălin Pîrvu	UHMWPE in Ballistic Protection
PP. 1.12 (13:10-13:20)	Dinu Gîrneț, Alexandru Viorel Vasiliu, Gabriel Murariu, Romana Drașovean, George-Ghiocel Ojoc, Lorena Deleanu	A Survey of Some Water Characteristics for Prut River
PP. 1.13 (13:20-13:30)	Ioana-Gabriela Chiracu, George-Ghiocel Ojoc, Lorena Deleanu	Modeling the three-point bending test for a stratifield composite

THURSDAY – 6th of June 2024

SECTION 2

ADVANCED INVESTIGATION METHODS IN ENVIRONMENT AND BIOHEALTH

ORAL PRESENTATIONS

Chair: Luminita Moraru

IP. 2.1 (10⁰⁰-10¹⁵)	Simona Moldovanu, Luminita Moraru	Classification methods for data, metadata, and images
OP. 2.1 (10¹⁵-10³⁰)	Ciorba Petru, Zubcov Elena	Arsenic in the living environment and ecosystems of the Prut River
OP. 2.2 (10³⁰-10⁴⁵)	Dragoș Balaican, Iulian Nichersu, Oliver Livanov, Matei Simionova, Adrian Burada, Cătălina Iticescu, Luminița Moraru, Puiu-Lucian Georgescu	Impact of the Interaction of climate change, anthropogenic modification and the jevons rebound effect and paradox on water multi-connectivities in inland watercourses and its effects on carbon storage
OP. 2.3 (10⁴⁵-11⁰⁰)	Cristinel Gabriel Rusu, Simona Moldovanu, Luminița Moraru	Artificial intelligence in lung cancer diagnosis: A comprehensive review
OP. 2.4 (11⁰⁰-11¹⁵)	Cristina Paraschiv (Nedelcu), Steluța Gosav, Cătălina Mercedes Burlacu, Mirela Praisler	Assessing the chemical potential of certain flavones based on DFT theory and molecular docking
OP. 2.5 (11¹⁵-11³⁰)	Lucian Sergiu Trifan, Simona Moldovanu	Testing classification performance of deep learning models: A comparative study based on image edges
OP. 2.6 (11³⁰-11⁴⁵)	Cristina Ioana Casapu, Simona Moldovanu	Classification of microorganism using convolutional neural network and H2O AutoML
OP. 2.7 (11⁴⁵-12⁰⁰)	Iulia-Nela Anghelache Nastase, Simona Moldovanu, Luminia Moraru	A new approach for extracting image features using octave band analysis

POSTER SESSION

FRIDAY – 7th of June 2024

SECTION 2

ADVANCED INVESTIGATION METHODS IN ENVIRONMENT AND BIOHEALTH

Chair: Simona Moldovanu

PP.2.1 (9⁰⁰-9¹⁰)	Ștefănuț Ciochină	The use of interpolation polynomials in the approximation of functions: comparative study
PP.2.2 (9¹⁰-9²⁰)	Aurelia Ababii, Liuba Corețchi, Antoaneta Ene	Quantification of health risk associated with radon exposure
PP.2.3 (9²⁰-9³⁰)	Marcel Daniel Popa, Ira-Adeline Simionov, Ștefan Petrea, George Adrian Ifrim, Puiu-Lucian Georgescu, Cătălina Iticescu	The chemical profile of urban waste water from the city of Galați, in order to use it as growth medium for microalgae
PP.2.4 (9³⁰-9⁴⁰)	Cristian Mugurel Iorga, Maria Cătălina Țopa, Georgiana Ghisman, Alina Ceoromila (Cantaragiu), Mihaela Marilena Stancu	Vegetal layer restoration of contaminated sites from petroleum industry using sewage sludge
PP.2.5 (9⁴⁰-9⁵⁰)	Valentina Andreea Calmuc, Madalina Călmuc, Maxim Arseni, Cătălina Iticescu, Puiu-Lucian Georgescu	Detection of pharmaceuticals in fish species from the Danube River

PP.2.6 **(9^{50}-10^{00})**	<u>Madalina Calmuc</u>, Valentina Andreea Calmuc, Maxim Arseni, Adrian Roșu, Puiu-Lucian Georgescu, Catalina Iticescu	Assessment of the microplastics presence in the Lower Danube River water and sediment
PP.2.7 **(10^{00}-10^{10})**	<u>Orhan Ibram</u>, Cristina Despina, Adrian Burada, Iasemin Suliman, Mihaela-Iuliana Tudor, Maria-Cătălina Țopa, Cătălina Iticescu, Lucian Puiu Georgescu	Assessment of aquatic ecosystems in urban and reconstructed zones of the Danube Delta biosphere reserve using physico-chemical parameters and benthic macroinvertebrates
PP.2.8 **(10^{10}-10^{20})**	<u>Viorel Călinescu</u>, Cătalina Maria Țopa, Lucian Puiu Georgescu, Cătălina Iticescu	Optimization of routes based on artificial intelligence as an integrated part of the waste management system in Galati county
PP.2.9 **(10^{20}-10^{30})**	<u>Cristina (Paraschiv) Nedelcu</u>, Steluța Gosav, Mirela Praisler	Characterization of flavonoids: an explorative review