

# ICoRSE 2022

## Agenda

Day : 8

Month : September



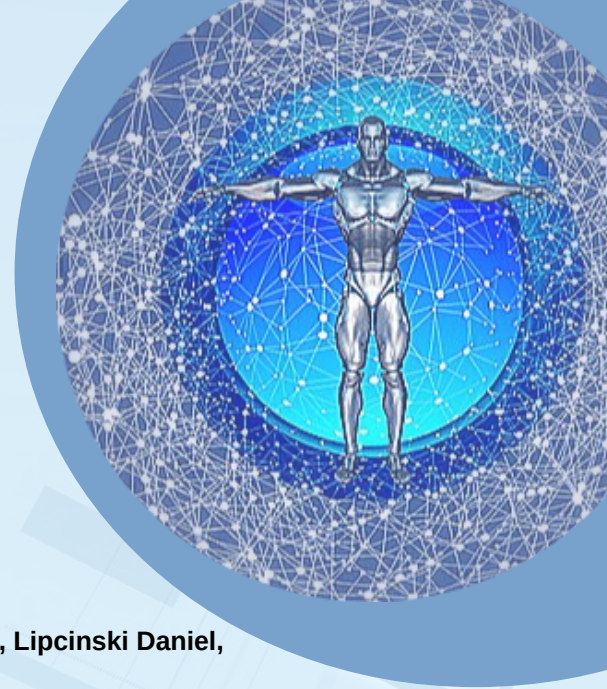
- **09:30-10:00 AM, Eastern Europe Time - Conference Opening Session**  
Moderator – **Andreea Stanciu**, Conference Secretary  
Opening Speeches delivered by:  
**Prof. José Machado**, Dr. Habil, *University of Minho*, Portugal, School of Engineering, Mechanical Engineering Department  
**Doina Daniela Cioboată**, PhD, *INCDMTM Scientific Manager*, Conference Chair, Romania  
**Mihai Mărgăritescu**, PhD, *INCDMTM General Manager*, Romania  
**Prof. Bogdan Grămescu**, PhD, *Local Organizing Co-Chair*, “Politehnica” University of Bucharest, Romania
- **10:00-10:20**  
**INDUSTRIAL NETWORKS PROTOCOLS PROFIBUS AND RS485 – A DESCRIPTION OF THE MOST COMMON PROBLEMS**  
Authors: Vítor da Cunha, Vítor Carvalho, José Machado and Filomena Soares
- **10:20-10:40**  
**ASSESSMENT OF METHODS FOR FAN BLADES ARRANGEMENT FOR STATIC BALANCING OF THE FAN OF A TURBOFAN ENGINE**  
Authors: Anna Stefanova, Georgi Georgiev, Vladimir Serbezov
- **10:40-11:00**  
**FORWARD DYNAMICS OF THE FIVE-BAR PARALLEL MECHANISM IN PRESENCE OF SINGULARITIES**  
Authors: Maurizio Ruggiu, Elio Frau, Pierluigi Rea
- **11:00-11:20**  
**OPTICAL FIBER BEHAVIOR UNDER INERT ATMOSPHERE**  
Authors: Rochdi El Abdi, Rodrigo Leite Pinto, Gaby Guérard, Christophe Capéna
- **11:20-11:40**  
**EFFECT OF MAGNETIZED CUTTING FLUIDS ON METAL CUTTING PROCESS**  
Authors: Umidjon Mardonov, Andrey Jeltukhin, Yahyojon Meliboyev, Baydullayev Azamat
- **11:40-12:00**  
**INFLUENCE OF THE DEPOSITION METHOD ON THE HARDNESS AND ELASTIC MODULUS OF BIOCOMPATIBLE THIN LAYERS DEPOSITED ON METALLIC SUBSTRATES**  
Authors: Liliana-Laura Bădiță, Aurel Zapciu, Catalin Vitelaru, Anca Constantina Parau, Lidia Ruxandra Constantin, Arcadie Sobetkii, Iulian Sorin Munteanu
- **12:00-12:20**  
**RESEARCH ON OPTIMIZING THE HARDENING PROCESS OF LAMELLAR SPRING SHEETS USING THE FACTORIAL EXPERIMENT METHOD**  
Authors: Aurel Mihail Țițu, Alina Bianca Pop
- **12:20-12:40**  
**COMPARATIVE ANALYSIS OF ANCHORAGE LENGTH FOR REBARS IN REINFORCED CONCRETE STRUCTURES**  
Authors: Julian Kasharaj, Igli Kondi, Irakli Premti
- **12:40-13:00**  
**INVESTIGATION OF THE SLAM PERFORMANCE OF THE MULTIROTOR MAV DEVELOPED FOR THE ANALYSIS OF ORCHARDS**  
Authors: Şahin Yıldırım, Burak Ulu
- **13:00-13:20 Break & Presentation of Micromachines open access journal**

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- **13:20 - Resuming the conference**
- **13:20-13:40**  
**HIGH SPEED ACTUATOR FOR DIGITAL HYDRAULICS**  
Authors: Nicolae Tănase, Cristinel Ilie, Ionel Chirita, Marius Popa, Lipcinski Daniel, Mihai Gutu, Romulus Marian Mihai
- **13:40-14:00**  
**TOWARDS THE IMPROVEMENT OF YARD MANAGEMENT SYSTEMS (YMS) USING RADIO FREQUENCY IDENTIFICATION (RFID)**  
Authors: Volodymyr Aliexsieiev, Valentin Kovalenko, Vsevolod Stryzhak, Ivan Varchenko, Mariana Stryzhak, Bernhard Heiden, Bianca Tonino-Heiden
- **14:00-14:20**  
**THEORETICAL AND EXPERIMENTAL RESEARCH ON STEP COVERAGE OPTIMIZATION FOR INTEGRATED MICROSTRUCTURES OF THIN FILMS**  
Authors: Georgeta Ionascu, Elena Manea, Ileana Cernica, Edgar Moraru
- **14:20-14:40**  
**NOVEL FEATURES OF SPECIAL PURPOSE INDUCTION ELECTRICAL MACHINES OBJECT-ORIENTED DESIGN**  
Authors: Vladyslav Pliuhin, Sergiy Plankovskyy, Mykola Zablodskiy, Ihor Biletskyi, Yevgen Tsegelnyk, Volodymyr Kombarov
- **14:40-15:00**  
**NATURAL VIBRATIONS OF A TURBINE BLADE DURING MILLING**  
Authors: Sergey Dobrotvorskiy, Yevheniia Basova, Yepifanov, Valerii Letiuk, Ludmila Dobrovolska, Oleksandr Shelkovyi
- **15:00-15:20**  
**CREATION OF A SUPERHYDROPHILIC SURFACE WITH ANTI-ICING PROPERTIES FOR X8H0T STAINLESS STEEL USING A PICOSECOND LASER**  
Authors: Sergey Dobrotvorskiy, Yevheniia Basova, Ludmila Dobrovolska, Viktor Popov, Abou Samra Youseff Mounif
- **15:20-15:40**  
**INNOVATIVE TECHNOLOGY TO COMBAT SARS-COV USING A FINELY DISPERSED CATCHING MEDIUM AND MICROWAVE ENERGY**  
Authors: Borys Aleksenko, Sergey Dobrotvorskiy, Yevheniia Basova, Yevgen Sokol, Milan Edl, Ludmila Dobrovolska
- **15:40-16:00**  
**STEP, SERVO AND HUB MOTOR BASED HYBRID PCB PROCESSING AND PROTOTYPING DEVICE DESIGN AND ANALYSIS**  
Authors: Atakan Yerli, Fuad Aliew, José Machado, Eurico Augusto Rodrigues Saebra, António Alberto Caetano Monteiro
- **16:00-16:20**  
**CONFIGURATION OF SRR-METAMATERIAL BASED 2\*1 ARRAY-TYPE RGW ANTENNA WITH CANTILEVER BEAM SWITCHING TECHNIQUE**  
Authors: Atik Mahabub Fuad, Ghazaleh Ramerzani, Ion Stiharu
- **16:20-17:00 Ending Session**  
Final Discussions and Closing speech by:  
Prof. Rochdi El ABDI, PhD, University of Rennes, France, General Conference Co-Chair  
Prof. Ion STIHARU, PhD, Mechanical, Industrial and Aerospace Engineering  
Director of CONCAVE, Concordia University of Canada  
Friday, 9 September 2022 - Committee Member Discussions (Invitation-Based Only)