S C H E D U L E

**of the 4th edition of the International Conference on Space Launching Systems and
16th of the International Conference on Artificial Intelligence applied in the field of Aerospace, Robotics,
Manufacturing Systems, Mechanical Engineering,
Power Systems, Technology of Materials
and Neurorehabilitation**

**SLS&OPTIROB 2021, 1July-5July 2021
Delta Hotel, Jupiter,
Romania**

Time table	Action	Place
1.07.2021		
14:00-16:00	**Registration of participants**	**Delta Hotel**
2.07.2021		
9:30-10:00	**Registration of participants**	**Delta Hotel**
10:00-10:20	Open Ceremony Introducing the companies, organizations and participants	Conference room Delta Hotel
10:20-11:10	Photo group Presentation of the invited papers and regular papers	Front of the Hotel Conference room Delta Hotel
11:10-11:30	**Coffee break**	**Delta Hotel Restaurant**
11:30-12:30	Presentation of the invited papers and regular papers	Conference room Delta Hotel
12:30-15:00	**Lunch**	**Delta Hotel Restaurant**
15:00-17:45	Presentation of the invited papers and regular papers	Conference room Delta Hotel
17:45-18:00	**Coffee break**	**Delta Hotel Restaurant**
18:00- 19:30	Presentation of the invited papers and regular papers	Conference room Delta Hotel
20:00-21:30	**Dinner and Conclusion remarks**	**Delta Hotel Restaurant**
3.07.2021		
13:00- 19:00	Visit	Constanta, Mangalia
4.07.2021		
10:00-13:00	Sun and Beach	Jupiter Beach
5.07.2021		
10:00-11:00	Return to Bucharest	Speed way Constanta- Bucharest

**All participants must be registration to get their conference documents and invoices
Delta Hotel**

S C H E D U L E

ANC/UPB/IACSIT/IACT/SCIEI/AFM/ATINER/UASTRO

International Conferences

on

4th Space Lauching Systems

and

16th Artificial Intelligence applied in the fields of Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering, Technology of Materials, Power Energy and Neurorehabilitation

SLS&OPTIROB 2021

Organized by

National Authority of Qualification & University Politehnica of Bucharest, Romania

under the higher tutelage of the Romanian Academy of Technical Sciences,
together with
International Association of Computer Sciences and Information Technology, IACSIT Singapore,
International Academy of Computer Technology , IACT USA
Science and Engineering Institute, SCIEI USA
France Association of Mechanical Engineering, AFM France
Athens Institute for Education and Research, ATINER Greece
International University Association for Science and Technology, UASTRO Romania

In cooperation with:

Military Equipment and Technologies Research Agency
Henry Coanda Air Force Academy
NicolaeBalcescu Land Forces Academy
National Institute of Developing and Research in Mechatronix and Measurements
Pro Optica Society
University Elias Emergency Hospital
Institute of Solid Mechanics, Romanian Academy
Medicine and Pharmacy University
National Institute for Aerospace Research (INCAS)
Romanian Research & Development Institute for Gas Turbine (COMOTI)

DELTA HOTEL, JUPITER
1 July- 5 July 2021

	1 July 2021 (Thursday)
14:00- 16:00	Registration of Participants- Delta Hotel
	2 July 2021 (Friday)
9:30-10:00	**Registration of participants**
10:00-10:20	Opening Remarks Conference room- Delta Hotel
10:20-11:10	**Photo group** **Conference room- Plenary speech- Delta Hotel**
	Plenary speech 1 From humanoids to assistive devices ***Prof. Samer Alfayad***
	Plenary speech 2 Multi- objective optimization of a mechatronic solar tracking mechanism ***Prof. Catalin Alexandru***
11:10-11:30	**Coffee break**
11:30-12:30	Plenary speech 3 Parameter selection with critical uncertainties for ORVEL nonconventional rocket engine ***Prof. Radu Rugescu***
	Plenary speech 4 H-infinity distributed controller design for multi-agent systems ***Prof. Adrian Stoica***
	Plenary speech 5 A new method of inspection the aircraft fuel tank by hexapod mobile robot ***Ph.D.student Eng. Maria Khan***
	Plenary speech 6 Neurorehabilitation of motor and sensory sequelae in lumbar disc herniations, integrative approach- ozonotherapy ***Dr. Ramona- Elena Constantinescu***
12:30-15:00	**Lunch**
15:00-17:45	Plenary speech 7 Mathematical modelling of a servo electro-hydraulic actuator ***Ph.D.student Eng. Maya Sleiman***
	Plenary speech 8 Researches on the behavior of PLA sandwich structures with different core configuration loaded in three points bending ***Prof. Gabriel Jiga***
	Plenary speech 9 Optimizing virtual enterprises manufacturing using digital twinning ***Prof. Costel Cotet***
	Plenary speech 10 Active rehabilitation training control strategy of lower limb rehabilitation robots through the dynamic modelling of human-machine coordination and detected the patient leg motion intention ***Prof. Luige Vladareanu***
	Plenary speech 11 Architecture of next generation manufacturing system ***Prof. Gabriel Frumusanu***
	Plenary speech 12 Modelling, simulation and control for isotropic separation process ***Prof. Vlad Muresan***
	Plenary speech 13 Research and contributions on the value chain as a strategic management tool for the digital enterprise ***Prof. Gheorghe Gheorghe***
	Plenary speech 14 A Try Studies to Estimate and Predict the Propagation of COVID-19 in France, Europe and World ***Prof. Adinel Gavrus***
	Plenary speech 15 ROBO-PVAFM proper software platform for cinematic and dynamic research in Robotics ***Prof. Adrian Olaru***

Afternoon, 2 July, 2021 (Friday)
Delta Hotel conference room

17:45-18:00	**Coffee break**
18:00- 19:30	**Regular papers session** **Moderators: Prof. Samer Alfayad, Prof. Liviu Cosereanu, Prof. Catalin Alexandru, Prof. Tiberiu Tomoiaga, Prof. Gabriel Frumusanu, Prof. Costel Cotet, Prof. Luige Vladareanu, Prof. Adrian Olaru** 1. *Stefan Ionita, Stefan Velicu and Paul Liviu Paunescu* "Sealing the cracks in the wear layer of the road surface by friction against a rotary active element" 2. *Laura Țîrle, Ioan Ursu and Daniela Enciu*, "Damage Identification and Localization in an Aluminium Plate Based on Lamb Waves"

	3. **Sorin Negru** *and Gabriel Jiga* "Design of a VTOL UAV for anti-poaching surveillance missions in the Danube Delta" 4. **Crina Narcisa Deac**, *Gicu Călin Deac, Radu Constantin Parpală, Cicerone Laurențiu Popa and Constantin-Adrian Popescu,* "Vibration Anomaly Detection using Multivariate Time Series" 5. **Gicu Călin Deac,** *Crina Narcisa Deac, Cicerone Laurențiu Popa, Tiberiu Dobrescu and Costel Emil Coteț,* "Virtual Reality Laboratory for distance learning" 6. *Iulia Stefan,* **Ovidiu Stan** *and Liviu Miclea*, "Towards Automated Web Functional Testing Using Predefined Templates". 7. **Tudor George Alexandru**, *George Dinca si Cristina Pupaza*, "Sustainable product development approach for facilitating the use of alternative materials in thermal design processes". 8. **Iulia Clitan**, *Vlad Muresan, Mihail Abrudean and Andrei Florin Clitan,* "Influence of Humidity on the Evolution of COVID-19 Daily Cases in Romania – Data Based Study"
20:00-21:30	**Dinner, Closing remarks** and UASTRO certificate members

Attention!

All persons must be present one hour before the support work.
Devices provided by the Conference Organizer:
Laptops (with MS-office 2003 & Adobe Reader)
Projectors & Screen
Materials provided by the presenters:
Power Point or PDF files
Duration of each Presentation (Tentatively):
Plenary presentation: 15 minutes of presentation and 5 minutes of Q&A
Regular Oral Session: 10 minutes of presentation and 5 minutes of Q&A
DELTA HOTEL
CONFERENCE ROOM