FINAL PROGRAM



21-23 October 2020



INSTITUT NATIONAL DES SCIENCES APPLIQUÉES TOULOUSE



LAAS-CNRS, Toulouse

Organized by





Sponsored by







 $\widehat{\mathbb{I}}$

GHENT

UNIVERSITY





Big Constant Global Open Data for Agriculture & Nutrition







BECAUSE OF THE WORSENING COVID PANDEMIC IN FRANCE AND THE REST OF EUROPE, WE HAVE DECIDED TO MOVE THE EVENT TOTALLY ONLINE AS YOUR HEALTH AND SAFETY ARE OUR MAIN CONCERN

ON THE OTHER HAND, HOWEVER, WE ARE LOOKING INTO THE POSSIBILITY OF REVISITING LAAS-CNRS TOULOUSE FOR A FUTURE ESM (FROM 2022 ONWARD)

The ESM'2020 final programme, as a tribute to the hard work of the local committee gives information on how to reach LAAS-CNRS in Toulouse, but also gives you info on how to virtually attend the event, which will be the way we will proceed.

Contents

Best Paper Award	7
Conference Location	4/5
Conference Proceedings	6
General Information	
Login	6
Meeting Rooms	
Need Help?	
Notes	
Registration	
Session Chairs Information	
Social Event and Lunches	
Tickets	
Virtual Participation Info	
Quick Program Overview	9
Scientific Program	15
Wednesday, October 21	13
Thursday, October 22	
Friday, October 23	24
ESM'2021	27
EUROSIS Info	

1. Conference Location

The ESM'2020 Conference is being held virtually at



LAAS-CNRS 7, avenue du Colonel Roche BP 54200 31031 Toulouse cedex 4 France Tel: +33 (0) 5 61 33 62 00 Email1: <u>clement.foucher@laas.fr</u> Email2: <u>alex@laas.fr</u> Email3: claude.baron@insa-toulouse.fr

The **online registration** will be open from Wednesday morning October the 21st onwards, where registration will start at 08.15 a.m. and will end at 5.00 p.m. On Thursday October 22nd registration will be from 9.00 a.m. - 5.00 p.m. with Friday registration only from 9.00 a.m. - 9.30. a.m. Online registration info can be found further in this programme.

How to reach the conference location in Toulouse:

By Plane

Arriving at Toulouse by plane at Toulouse-Blagnac airport and going directly to LAAS

Taxi: 25 minutes

Tram + subway: 45min

Tram ligne T2 to Palais de justice, then métro ligne B towards Ramonville to "Faculté de Pharmacie" down station, then take the shuttle 78 * or lower station Ramonville Saint Agne, then take the shuttle - 37 * or 27 *, stop "LAAS".

Bus + Subway: take the airport shuttle to the city center - 1/2 hour stop: Jeanne d'Arc Station, take metro line B towards Ramonville, Faculty of Pharmacy down station, then take the shuttle 78 * or lower station Ramonville Saint Agne, then take the shuttle - 37 * or 27 *, stop "LAAS".

By Train

Arriving at Toulouse by train at Matabiau Railway station and going directly to LAAS

Taxi: 15 minutes

Metro: Take the subway, in the Railway Station, get off station Jean Jaurès, this station is the only point of correspondence between lines A and B underground.

Take line B, direction Ramonville, Faculty of Pharmacy down station, then take the shuttle 78 * or lower station Ramonville Saint Agne, then take the shuttle - 37 * or 27 *, stop "LAAS".

Metro: Take the 27* towards Ramonville, stop "LAAS"

By Metro

Leaving the metro at Paul Sabatier Station and going directly to LAAS

Leave the metro at the Universite Paul Sabatier Station which is between Pharmacie station and Ramonville station

Outside Universite Paul Sabatier station you take a shuttle to LAAS This takes 5 to 10min to reach LAAS station

By Car

Arriving in Toulouse by car (from beltway) and going directly to LAAS

Exit 20, direction "Complexe scientifique de Rangueil" **Exit 23**, direction "Université Paul Sabatier, Ramonville St-Agne"

ESM'2020 VIRTUAL PARTICIPATION AND PRESENTATION

As stated on page 3 because of the worsening COVID figures in Europe and France we are forced to move the event totally online. It was not our intention but reality has caught up with us. We do hope to hold an ESM in the near foreseeable future at LAAS-CNRS (more info to follow soon)

Therefore we are opening up a virtual environment for the ESM presentations using the following software:

Big Blue Button: https://bigbluebutton.org/

Big Blue Button runs within your browser

See more info here: https://docs.bigbluebutton.org/

And here is a specific link on sharing your presentations:

https://cpb-us-

e1.wpmucdn.com/wp.wwu.edu/dist/b/758/files/2016/12/How-To-BBBuploadPresentation-1wg8s1I.pdf

A first trial is envisaged on Friday the16th of October from 13h00 to 15h00 (Paris time)

1. Login

Each registrant will receive a name login upon registration. The login is personal and non-transferrable and can only be your name. Company logins are NOT allowed. Non-regular logins will be removed from the online meetings.

2. Tickets

Non applicable

Extra conference dinner	€
Extra lunch ticket	€

3. Registration

The ESM'2020 Registration will be open online for information and registration info for those already registered and AT CONFERENCE REGISTRATION CAN ONLY BE DONE ONLINE FOR THOSE STILL WISHING TO REGISTER AS A VIRTUAL PARTICIPANT AT THIS TIME https://www.eurosis.org/conf/esm/2020/email-registration.html

> Wednesday, October 21...... 8.15 a.m. to 5.00 p.m. Thursday, October 22...... 9.00 a.m. to 5.00 p.m. Friday, October 239.00 a.m. to 9.30 a.m.

4. Conference Proceedings

Each electronic paid registrant will be provided with an electronic copy of the Conference Proceedings. Fully paid onsite participants will be provided with a printed copy of the Conference Proceedings. This is NOT applicable to students who are not authors and who have not fully registered. (Extra electronic or printed copies are available after ESM'2020)

Price: (or equivalent in another currency) for an extra copy

Printed ESM'2020 Proceedings	€ 60 plus 30%
	shipping costs

6. Meeting Rooms

The ESM'2020 conference will be held in electronic **rooms designated A (ROOM I) and B (ROOM II)** in this programme.

7. Need Help?

Please contact EUROSIS (philippe.geril@eurosis.org) for your questions

8. Social Event and Lunches

Non-Applicable

The Conference Dinner Non-Applicable

9. Room Legend

The parallel meeting rooms will be designated ROOM A (I) and B (II).

10. Best Paper Award

During the conference the papers, which were accepted as **extended** papers will be judged by the committee and conference participants in order to choose the best paper of the ESM'2020 conference.

The best paper author of the conference receives a certificate and a free registration to any EUROSIS event held within 2 years after receiving the best paper award. This registration waiver is only VALID FOR 2 YEARS AFTER RECEIPT AND FOR 1 (ONE) PERSON. In case of multiple authors, one (1) author only can use the registration waiver.

Session Chairs information

ALL SESSION CHAIRPERSONS IN THIS PROGRAM ARE PROVISIONAL

Session Chairs are chosen on a voluntary basis by proposals by either authors or local committee members or are appointed by the Track Chairs, General Program Chair or General Conference Chair. They are responsible for their assigned session. They make sure their speakers are available, take care of the timing within the session, chair the discussion after each presentation and introduce each speaker based on the CV's given to them by the authors. If a session chair is not available then the first author takes on the responsibility to chair In case they chair a session featuring extended papers, then they are required to distribute and collect the reviews of that or those papers at the beginning and end of the session. If they have time they should also indicate in their papers the number of session participants.

THE NUMBERS NEXT TO THE PRESENTATIONS DENOTE THE PAGE-NUMBERS IN THE PROCEEDINGS. IF NO NUMBERS ARE MENTIONED THEN THIS PAPER IS NOT PUBLISHED IN THE PROCEEDINGS

THE AUTHORS WHO ARE UNDERLINED ARE NORMALLY THE PRESENTERS

ONLY PAPERS IN GREY BOXES ARE THE EXTENDED PAPERS ELIGIBLE FOR THE BEST PAPER AWARD

CHECK OUT THE OTHER EUROSIS EVENTS ON OUR WEBSITE: http://www.eurosis.org

WEDNES	SDAY, 21 st OCTOBER 2020			
08.15-17.00	ONLINE REGISTRATION			
09.00-09.10	WELCOME BY CLÉMENT FOUCHER – ESM'2020 CO	ONFERENCE CHAIR - ROOM A		
09.10-10.00	KEYNOTE SPEECH BY SIMON SEE - ROOM A			
10.00-10.30	COFFEE BREAK			
10.30-13.00	00 PARALLEL SESSIONS			
	ROOM A	ROOM B		
	CYBER PHYSICAL SYSTEMS MODELLING AND COBOT SIMULATION	HIGH PERFORMANCE COMPUTING		
12.30-13.30	LUNCH BREAK			
13.30-14.30	PARALLEL SESSIONS			
	ROOM A	ROOM B		
	INVITED SPEECH JEAN-CHARLES MARE	ANALYTICAL AND NUMERICAL MODELLING		
14.30-15.00	COFFEE BREAK			
15.00-16.30	PARALLEL SESSIONS			
	ROOM A	ROOM B		
	AREA 42 WORKSHOP	DATA MANAGEMENT SIMULATION I		
16.30- 18.00	PARALLEL SESSIONS			
	ROOM A	ROOM B		
	SIMULATION IN INTEGRATED MANUFACTURING SYSTEMS	DATA MANAGEMENT SIMULATION II AND SIMULATION METHODOLOGY		

09.00-17.00	AY, 22 nd OCTOBER 2020 ONLINE REGISTRATION			
09.00-10.00				
	ROOM A	ROOM B		
	INVITED SPEECH ALEXANDRE MUZY	AI BASED FINANCIAL FORECASTING		
10.00-10.30	COFFEE BREAK			
10.30-13.00	PARALLEL SESSIONS			
	ROOM A ROOM B			
	SIMULATION IN INDUSTRIAL ENGINEERING	RISK MANAGEMENT I		
12.30-13.30	LUNCH BREAK			
13.30-15.00	PARALLEL SESSIONS ROOM A ROOM B			
	WORKSHOP CYBERFACTORY I#	AR TUTORIAL		
15.00-15.30	COFFEE BREAK			
15.00-18.00	PARALLEL SESSIONS			
	ROOM A ROOM B			
	SIMULATION METHODOLOGY FOR INTEGRATED MANUFACTURING SYSTEMS AND RISK MANAGEMENT II	SIMULATION IN BIOLOGY AND MEDICINE		
19.30 - 22.30				

FRIDAY,	23 rd OCTOBER 2020			
09.00-09.30	ONLINE REGISTRATION			
09.00-10.00	PARALLEL SESSIONS			
	ROOM A	ROOM B		
	INVITED SPEECH JERZY RESPONDEK	HOSPITAL LOGISTICS OPTIMIZATION		
10.00-10.30	COFFEE BREAK			
10.30 13.00	PARALLEL SESSIONS			
	ROOM A	ROOM B		
	SIMULATION IN ENERGY AND WATER SUPPLIES	IOT BASED CLOUD SIMULATION		
13.00-13.15	CLOSING SESSION AND BEST PAPER AWARD ROOM A –			

Notes

NOTES

Online Registration 08.15 - 17.00

ROOM A 09.00 – 09.10 Opening ESM'2020 and Welcome

Welcome Address

Clément Foucher, LAAS-CNRS, Toulouse, France

ESM'2020 General Conference Chair

ROOM A – 09.15-10.00 KEYNOTE SPEAKER Chair: <u>Clément Foucher</u>, LAAS-CNRS, Toulouse, France

> KEY_01 <u>Pathway to General Artificial Intelligence: Simulation</u> <u>for AI and AI for Simulation</u> <u>Simon See</u>, Senior Director, Nvidia AI Technology Center

KEY



10.00 - 10.30 COFFEE BREAK

10.30 - 13.00

ROOM A – 10.30-13.00 CYBER PHYSICAL SYSTEMS MODELLING AND COB SIMULATION Chair: <u>Claude Baron</u> , LAAS, Toulouse, France	CYBER-ROB OT
CYBER_METH_01 A Formal Framework for Modeling and Prediction of Aircraft C using SysML Sagar Shenoy Manikar, Pierre de Saqui-Sannes, Joël Jézégou, Emmanuel Bénard and Philippe Asseman	
CYBER_METH_02 Towards Digital Twins for Optimizing the Factory of the Futur Patrick Eschemann, Philipp Borchers, Linda Feeken, Ingo Stierand Jan Stefan Zernickel and Martin Neumann	d,
CYBER_METH_05_IOT Inter-Organizational Perspective to Cyber-Physical System Me in Industrial Production Markku Mikkola and Markus Jähi	U
AI_06 On the Recognition and Analysis of selected Emotion Artificial Intelligence of Social Robots Wiktoria Alicja Janiaczyk, <u>Eryka Probierz</u> and Adam Galuszka	
AGENT_06_ROB Warehouse Model for Interaction Planning of Mobile Robots Tomasz Grzejszczak, Władysław Krzyżanowski and Adam Gałusz	:ka 229
ROOM B – 10.30-12.00 HIGH PERFORMANCE COMPUTING Chair: <u>Clément Foucher</u> , LAAS-CNRS, Toulouse, Franc	HPC e

12.30 - 13.30 LUNCH BREAK

13.30 - 14.30

ROOM A – 13.30-14.30 INVITED SPEAKER Chair: <u>Claude Baron</u>, LAAS, Toulouse, France KEY

ANMT



KEY_03 <u>Best Practices for efficient Simulation-Aided</u> <u>Engineering</u> <u>Jean-Charles Mare</u>, INSA Dpt Mécanique, Toulouse, France

ROOM B – 13.30-14.30 ANALYTICAL AND NUMERICAL MODELLING Chair: <u>Clément Foucher</u>, LAAS-CNRS, Toulouse, France

14.30 - 15.00 COFFEE BREAK

15.00 - 16.30

ROOM A – 15.00-16.30WORKSHOPAREA42 WORKSHOPChairs: Felix Garriau, Kenneth Van den Bergh and D. VanNieuwenhuyse

The workshop will consist of 3 parts:

Introduction: The disruption of trade & the rise of #tradetech (15 minutes) Workshop: Trade data modelling challenges (60 minutes) Conclusion & Next Steps (15 minutes)

ROOM B – 15.00-16.30	MGMT
DATA MANAGEMENT SIMULATION I	
Chair: <u>Clément Foucher</u> , LAAS-CNRS, Toulouse, France	
METH_02_ISC	
Using Multilevel Random Coefficient Models to Analyze ordinal	
Responses	
Liberato Camilleri	55
METH_04_AI_STUD	
Application of Time-Universal Codes to Time Series Forecasting	
Konstantin Chirikhin	60
METH 04	
METH_01	
Modelling of Situation Awareness in Net-Centric Commercial System	
Alexander Fridman and Andrey Oleynik	
16.30 – 18.00	

ROOM A- 16.30-18.00MANUFSIMULATION IN INTEGRATED MANUFACTURING SYSTEMSChair: Claude Baron, LAAS, Toulouse, France
SIM_ENG_02 Assistance System for the Automated Composition and Configuration of a co-Simulation Christian Härle, Mike Barth and Alexander Fay
OPT_07_LOGIS A Conceptual Framework for the Integration of Assembly Line Feeding and Route Building Ebenezer O. Adenipekun, Veronique Limère and Nico A. Schmid
TRANS_01_ISC Comparison of Material Flow Models and Acceleration of the Macroscopic Flow Model for Virtual Commissioning Annika Kienzlen and Alexander Verl
ROOM B- 16.30-18.00MGMT-METHDATA MANAGEMENT SIMULATION II - SIMULATIONMETHODOLOGYChair: Alexandre Nketsa, LAAS, Toulouse, France
MC_01_MIL Monte Carlo Simulation of Interstate War from 1816 to 2007 Vaughn H. Standley, Frank G. Nuño, Jacob W. Sharp and George J. Trawick
METH_03_PETRI An Event Clustering Method for discovering Switch Silent Transitions in a Class of Petri Nets Cristian García-Uribe and <u>Ernesto López-Mellado</u> 5
OPT_04 Optimizing the Height of the Routing Tree in WSNs Sofiane Elmahroug, Ali Balma and Abderrazak Jemai13

FREE EVENING

Online Registration

09.00 - 17.00

09.00 - 10.00

ROOM A- 09.00-10.00 **KEYNOTE** Chair: Clément Foucher, LAAS-CNRS, Toulouse, France



KEY_02 Modeling and Simulation of Behavioral and Neuronal Activities for the Design of New Algorithms capturing the Learning Process Dynamics Alexandre Muzy, Université Côte d'Azur, (I3S) - UMR7271 -UNS CNRS, Sophia Antipolis, France

ROOM B- 09.00-10.00

AI FIN

KEY

AI BASED FINANCIAL FORECASTING Chair: Alexandre Nketsa, LAAS, Toulouse, France

AI 01

Short Time Series of Share Prices with Financial Results in Day-Ahead	
Forecast – The Warsaw Stock Exchange Main Market Example	
Adam Galuszka, Tomasz Dzida, Katarzyna Klimczak, Karol Jedrasiak	
and Tomasz Wisniewski	115

AI 02

LSTM Network with Reinforced Learning in Short and Medium Term Warsaw Stock Market Index Forecast

<u>Adam Gall</u>	<u>iszka</u> , Tomas	sz Dzida, Katarzyr	na Klimczak,	Karol Jedraslak	
and Tomas	sz Wisniewsk	ii			118

10.00 - 10.30 **COFFEE BREAK**

10.30 - 13.00

ROOM A- 10.30-12.30 SIMULATION IN INDUSTRIAL ENGINEERING Chair: <u>Clément Foucher</u> , LAAS-CNRS, Toulouse, France	ENG
SIM_ENG_01 Simulation of Slowly Varying Oscillations in Cold Rolling Mills Pavel Ettler	237
SIM_ENG_05 Fractional Control System Simulation to Modernize a Locomotive Dual-Fuel Engine Anton Ivaschenko, Vladimir Avsievich and Alexandr Avsievich	242
SIM_ENG_03 Versatile Inverse Dynamics Framework for the Cross Application Si of Rigid Body Systems Tobias Osterloh and Jürgen Roβmann	
AI_04_NEURAL Predicting the Transmission of Fore-and-Aft Vibration to the Head of and Standing Subjects using an Artificial Neural Network Naser Nawayseh and Mohammad AlShabi	of Seated
ROOM B- 10.30-13.00 RISK MANAGEMENT I Chair: <u>Alexandre Nketsa</u> , LAAS, Toulouse, France	MGMT
DATAMIN_03_ISC Social Tension Detection on Social Media Textual Data: A Literature Review Nurul Syafidah Jamil, Siti Sakira Kamaruddin, Farzana Kabir Ahmad and <u>Chrissanthi Angeli</u>	
TOOLS_01_ISC A Predictive Risk Model based on Social Network Analysis Marco Nunes, <u>António Abreu</u> , Ana Dias and José Duarte Moleiro Marting	6 82

EMERG_03 Developing an Emergency Information System: A Literature Review K. Papatheodosiou and <u>C.Angeli</u>
EMERG_01 Use of Constructive Simulation in Preparation of Crisis Management Personnel for Solving Crisis Events Michaela Jánošíková, Jozef Ristvej, Katarína Zábovská and Maroš Lacinák
AGENT_04_MIS War Games, Simulation and CI Tools for Strategic Planning Andrzej Najgebauer

12.30 – 13.30 LUNCH BREAK

13.30 - 15.00

ROOM A – 13.30-15.00 WORKSHOP ITEA Project "CyberFactory#1" Chair: <u>Alexandre Nketsa</u>, LAAS, Toulouse, France

WORKSHOP



KEY_05 Introduction to CyberFactory#1 Adrien Bécue, Head of Innovation, Airbus Cybersecurity, Elancourt, France



KEY_06 <u>Requirements on Digital Models and Simulation in</u> <u>Resilient Factories of the Future</u> <u>Matthias Glawe</u>, Security Architect ICS, Airbus Cybersecurity GmbH, Hamburg, Germany



KEY_07

Introduction to Cyber Factory#1 uses of Digital Twin Isabel Praça, Professor at ISEP and Researcher at GECAD, Porto, Portugal

ROOM B – 13.30-15.00 AR TUTORIAL Chair: Clément Foucher, LAAS-CNRS, Toulouse, France

TUT



TUT_01 <u>AR Learning</u> <u>Prof. Matt Glowatz</u>, UCD, Quinn School of Business, Dublin, Ireland

- This tutorial focusses on research addressing the opportunities and challenges of creating innovative learning spaces for the 21st century. In particular, we will be discussing
- The new learner characteristics
- Opportunities and challenges for the education sector
- Creating innovative learning spaces for the 21st century
- Augmented Reality (AR) in education
 - An overview
 - Technologies
 - Opportunities
 - Case Study

15.00 - 15.30 COFFEE BREAK

15.30 - 18.30

ROOM A – 15.30-18.00MANUFSIMULATION METHODOLOGY FOR INTEGRATEDMANUFACTURING SYSTEMS AND RISK MANAGEMENT IIChair: Clément Foucher, LAAS-CNRS, Toulouse, France

Parallel Sessions - Thursday

METH_06
Discrete Event Simulation Framework for Demand Driven MRP
Performances Evaluation
Stephanie Bayard, Frederic Grimaud and Xavier Delorme131
METH_05 Efficient Verification of Reconfigurable Discrete-Event System using Isabelle/Hol Theorem Prover Sohaib Soualah, Mohamed Khalgui, Allaoua Chaoui, Laid Kahloul and Yousra Hafidi
OPT_02_LOGIS Production Line Balancing and a Statistical Optimization Discussion William Conley
METH_01_ISC Input Analysis with Statistical Optimization William Conley
METH_06_ISC Managing and Mitigating the Asteroid Threat William Conley
ROOM B – 15.00-18.00BIOSIMULATION IN BIOLOGY AND MEDICINEBIOChair: Alexandre Nketsa, LAAS, Toulouse, France
BIO_01_NEURAL Exploring Protein Folding Space with Neural Network Guided Simulations Aleš Krenek, Jana Hozzová, Jaroslav Oľha, Dalibor Trapl and Vojtěch Spiwok
AGENT_01_BIO Simulating Infection Transmission: A Case Study of COVID-19 Mina Abadeer and Sergei Gorlatch
AGENT_02_METH_BIO A Framework for Validating and Testing Agent Based Models: A Case Study from Infectious Diseases Modelling Elizabeth Hunter and John D. Kelleher

PRED_01 Towards the Modelling of the Concentrated State of Learners. An Intra-Subject Modelling Approach Ana Serrano-Mamolar, Miguel Arevalillo-Herráez and Jesús González-Boticario	324
AI_09_NEURAL Machine Learning Approach to Data Preparation in Object Recognition by Convolutional Neural Network Weronika Westwańska and Jerzy Respondek	329
DATAMIN_01_ISC A Software for Plant Species Recognition using Artificial Intelligence Eleni Mangina, Elizabeth Burke, Ronan Matson, Joe M. Caffrey and Mohammad Saffari	335

19.30 - 22.30

CONFERENCE DINNER – 19.30 - 22.30

Non-applicable

Parallel Sessions - Thursday

Friday, 23rd October 2020

Online Registration

09.00 - 09.30

09.00 - 10.00

ROOM A - 09.00-10.00 **INIVTED SPEAKER** Chair: Clément Foucher, LAAS-CNRS, Toulouse, France **KEY**



KEY 04 Matrix Black-boxed Algorithms Jerzy Respondek, Silesian Univ.of Technology, AEI Faculty, Gliwice, Poland

ROOM B - 09.00-10.00 HOSPITAL LOGISTICS OPTIMIZATION

HOS

Chair: Alexandre Nketsa, LAAS, Toulouse, France

TOOLS_01_OPT_HOS

New Optimisation Model for Operating Room scheduling: Case Study Mariem Belhor, Adnen E-Amraoui, Farid Naït-Abdesselam, Abderrazak Jemai

METH 03 ISC

Ontology-Based Framework for Healthcare Systems Simulation Ignace Djitog and Muhammadou M. O. Kah..... 298

10.00 - 10.30 **COFFEE BREAK**

10.30 - 13.00

ROOM A – 10.30-13.00 ENERG SIMULATION IN ENERGY AND WATER SUPPLIES Chair: Clément Foucher, LAAS-CNRS, Toulouse, France PRED_SIM_01_ISC Web-Based Intelligent Knowledge-Based Energy Retrofit Recommendation System Gavin Morris, Usman Ali and Eleni Mangina 261
Web-Based Intelligent Knowledge-Based Energy Retrofit Recommendation System Gavin Morris, Usman Ali and Eleni Mangina
SIM_ENERG_01 Optimising Power Systems by Automating Large Sets of Simulations Samuel Marrero-Vera, Tomás D. Reyes-Sánchez, José Juan Hernández-Cabrera and José Évora-Gómez
SIM_ENERG_03 Optimal Load-Follow Control for Nuclear Power Plants Janos Sebestyen Janosy
OPT_05_ENERG_LOGIS A Hybrid Strategy for Mixed Integer Bi-Level Optimization applied to Hydrogen Energy Supply Chain Management Jose Manuel Flores-Perez, Catherine Azzaro-Pantel, Antonin Ponsich and Alberto A. Aguilar Lasserre
METH_05_ISC Methods for detecting and locating Water Leaks in Water Supply Systems Arkadiusz Bieniek and Jan Studziński
ROOM B – 10.30-12.00CLOUDIOT CLOUD BASED SIMULATIONChair: Alexandre Nketsa, LAAS, Toulouse, France
CLOUD_01 A Combinatorial Mechanism for Data Security in Public Cloud Computing Zied Trifa, <u>Sonia Amamou</u> and Maher Khemakhem17
IOT_02_ISC Hybrid Architecture for the Control of Industrial IOTS Shiming Liu, Daniel Roy and <u>Sophie Hennequin</u> 18

Friday, 23rd October 2020

ROOM A – 13.00 - 13.15 CLOSING SESSION AND BEST PAPER AWARD Chair: <u>Claude Baron</u>, LAAS, Toulouse, France

BEST PAPER

Chaude Baron, LAAS, Toulouse, Thank

<u>Claude Baron</u>, LAAS, Toulouse, France <u>Philippe Geril</u>, EUROSIS, Ostend, Belgium

ESM'2021



SEE YOU ALL AT ESM'2021, October 2021

(exact dates to be confirmed shortly)

Rome, Italy

Track proposals and tutorial proposals can be sent in by January 30th, 2021 Proposals for future ESM locations can be emailed to <u>philippe.geril@eurosis.org</u>

Other upcoming EUROSIS conferences <u>MESM'2020</u>, December 16-17, 2020, Philadelphia University, Jordan SCIFI-IT'2021 to be announced shortly ISC'2021, June 2-4, 2021, University of Malta, Valletta, Malta GAME-ON'2021, September 23-25, 2020, Department of Communication and Art, University of Aveiro, Aveiro, Portugal ESM'2021, October 2021, <u>Link Campus University</u>, Rome, Italy (exact dates to be communicated shortly) ISC'2022, June 2022, UCD, Dublin, Ireland



EUROSIS was borne out of discussions with the European Community to set up a new kind of Society, which would be project-driven instead of driven by pure membership and conferences.

The aim of the Society is to set up and manage topic related Technical Committees which will link directly to European Projects in the field of computer simulation and related areas and to act as a knowledge pool for future European Networks of Excellence, like MOSAIC, HORIZON2020 by seeking out the latest innovations in simulation, modelling and AI research.

If you would like to receive more information about EUROSIS, please contact

Philippe Geril EUROSIS-ETI Bluebridge – Ostend Science Park Wetenschapspark 1, Plassendale 1 B- 8400 Ostend, Belgium Tel: +32.59.255.330 Email: Philippe.Geril@eurosis.org

Please send me info on EUROSIS:

Address:	Name:	
Telephone	Address:	
Telephone		
Telephone		
Telephone		
	Telephone	
Fax:	Fax:	
Email:	Email:	

EUROSIS Info