



La deuxième Journée Scientifique et Technique JST-2

organisée par:

le Laboratoire de Modélisation et Simulation des Systèmes
Industriels Intelligents (M2S2I)

le **vendredi 14 juillet 2023**

TECHNICAL PROGRAM

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14 juillet 2023



ENSET Mohammedia, MAROC

Steering Committee:

S.Aouhassi

S.Faris

S.Nissabouri

S. Elouardi

Consultative Committee:

N. Belouaggadia

K. Mansouri

SCHEDULE OVERVIEW OF THE DOCTORAL DAY

Vendredi 14 juillet 2023

8:30-9:00

Welcome of participants

9:00-9:30

Opening ceremony

9:30- 10:00

Keynote 1

10:00-10:30

- Presentation of EDUNET & signatyre of agreements
- Open Green Labs: M. Amine ZAROUK, signature of agreements

10:30- 11:00

Coffee break

11:00-13:00

- Keynote 2
- Keynote 3
- Keynote 4

13:00-14:30

Lunch break

14:30-16:30

Oral sessions (4 sessions in parallel)

16:30-18:30

Posters sessions

18:30

Closing ceremony

SESSIONS

S-I	Industrial engineering and intelligent systems
S-II	Distributed computing systems
S-III	Innovative and energetic materials
S-IV	Information technology and artificial intelligence

SESSIONS PROGRAM

Session I	Industrial engineering and intelligent systems	
	Room: Amphi 1	Session chairs: H. SAMRI, S. BENSOUDA, A. ZAMMA, M. ECH-CHHIBAT, S. NISSABOURI
Vendredi 14 juillet 2023 14:30-16:30	Predictive maintenance implementation for rotating machines in automotive manufacturing “case study” Zineb Znaidi, Moulay El Houssine Ech-Chhibat, Azeddine Khat	
	Reliability Analysis of welding robots using the maximum likelihood method and exponential law Laila AIT EL MAALEM, My El houssine ECH-CHHIBAT	
	Supply Chain 4.0 a literature review and smart solutions to improve warehouse safety Bensalem ELASRI, Abdellah ZAMMA, Salah NISSABOURI	
	The supply chain evolution since the beginning of the Covid-19: resilience in response to crisis Hamza SAHIL, Zakaria Mighouar, Laidi ZAHIRI, Naoual BELOUAGGADIA, Jihane Melloui	
	Improvement of energy efficiency and optimization of Aerosil insulation thickness for building walls in Morocco. Mohammed FELLAH, Salma OUHAIBI, Naoual BELOUAGGADIA, Khalifa MANSOURI	

SESSIONS PROGRAM

Session II	Distributed computing systems	
	Room: Amphi 2	Session chairs: M. QBADOU, K. MANSOURI, F. AKEF, S. FARIS, I. BENNIS
Vendredi 14 juillet 2023 14:30-16:30	A Taxonomy about Artificial Intelligence Applications in Industry 4.0 HICHAM TAOUFYQ, Kamal EL GUEMMAT, Khalifa MANSOURI, FATIHA AKEF	
	Contribution to the Development of Intelligent Teaching and Adaptive Training Systems Mustapha RIAD, Mohammed QBADOU, Es-sâadia AOULA	
	Nao robot for learning arithmetic in children with special needs Soukaina Gouraguine, Mohamed Rafik, Mohammed QBADOU, Khalifa MANSOURI	
	Bayesian Regularization of Neural Networks for Prediction the Tensile Strength of HDPE Pipes Ihssan Sree, Basha Shaik Nagoor, Mustapha JAMMOUKH, Latifa ELFARISSI, Abdellah ZAMMA	
	Towards a model for decarbonizing the industrial world using traditional methods and new technologies YOUSRA ZEGRAOUI, Khalifa MANSOURI, Idriss Bennis, FATIHA AKEF	

SESSIONS PROGRAM

Session III

Innovative and energetic materials

Room: Amphi 3

Session chairs: L. ZAHIRI, N. BELOUAGGADIA, M. JAMMOUKH, H. CHAITI, S. ELOUARDI

Vendredi 14 juillet
2023

14:30-16:30

Contribution à la caractérisation et à la simulation numérique du comportement physico-chimique des nouveaux matériaux composites innovants et durables
Hamza ENNADAFY, Mustapha JAMMOUKH, Naoual BELOUAGGADIA

Enhancing the energy efficiency of merchant ships to mitigate their greenhouse gas emissions
Yassine GEANAH, Mustapha JAMMOUKH, Abdelilah HACHIM, Khalid El HAD

Enhancing Thermal Performance: A Numerical Study of a New Composite Wall Incorporating Phase Change Material
SABRINA JELLAJ, Salma OUHAIBI, Laidi ZAHIRI, Naoual BELOUAGGADIA, Khalifa MANSOURI

Towards a new eco-compatible material for food packaging applications.
Lina Goudali, Latifa ELFARISSI, Mustapha JAMMOUKH, Abdellah ZAMMA

Investigation of the thermal and mechanical properties of a sawdust-reinforced high-density polyethylene composite
Fatima Ezzahrae Morchid, ELFARISSI Latifa , ZAMMA Abdellah, IDIRI Mohamed, JAMMOUKH Mustapha

Towards aerogel for optimal efficiency of thermal insulation in buildings
OUMAIMA AIT KHOUYA, Mustapha JAMMOUKH, Abdellah ZAMMA, Latifa ELFARISSI

SESSIONS PROGRAM

Session IV	Information technology and artificial intelligence	
	Room: Amphi 4	Session chairs: A. KHALIDI, Y. NADIR, S. AOUHASSI, L. AMHAIMAR
Vendredi 14 juillet 2023 14:30-16:30	Towards an Evaluation of Learners' Success Using Learning Management System and Learning Experience Platform Hiba Gharbaoui, Khalifa Mansouri, Franck Poirier	
	Towards an intelligent system for improving the quality of higher education using Data Science techniques Khalid Oqaidi, Sarah Aouhassi, Khalifa MANSOURI	
	Towards the transformation of the port of Tangier Med into an environmentally friendly port Fatimaezzahra Sakhi, Mohammed QBADOU, Khalifa Mansouri	
	Energy Efficiency in the manufacturing industry: A conceptual framework and contextual research gaps Kawtar IBN BATOUTA , Sarah AOUHASSI , Khalifa MANSOURI	
	An efficient hybrid approach for vehicle detection and tracking Ayoub El-alami, Khalifa MANSOURI, Younes Nadir	