



TST 2021

ONLINE
CONFERENCE

The Third International Conference on
Transportation and Smart Technologies

21-22 June, 2021 – Tangier Morocco

Conference Program

Morning	
08h30	<p>Welcoming participants & opening ceremony</p> <p>Zoom link: https://us02web.zoom.us/j/85731217650?pwd=Ujl3V21Ydi9iRmd4cFFKZ3RRYjRSZz09</p>
09h-10h30	<p>Prof. Addou Mohammed: Dean of Faculty of Sciences and Techniques, Tangier, Morocco , Conference Honoray Chair Prof. Regragui Mohammed: Dean of Faculty of Sciences, Rabat, Morocco , Conference Honoray Chair Prof. Tamtaoui Ahmed: Director of INPT Rabat, Morocco , Conference Honoray Chair Prof. Abou el majd Badr:FSR, Mohammed V University, Rabat, Morocco, Conference Chair Prof. Boudhir Anouar Abdelhakim: FST of Tangier, Abdelmalek Essaadi University, Morocco Conference Co-Chair & Mediterranean Association of Sciences and Sustainable Development, Morocco .</p> <p>Zoom link: https://us02web.zoom.us/j/85731217650?pwd=Ujl3V21Ydi9iRmd4cFFKZ3RRYjRSZz09</p>
10h30-11h30	<p>Planery Conference: Prof. Horst Treiblmaier Modul University Vienna, Austria Title of the talk: " The Physical Internet: A Framwork for Supply Chain Transformation" Moderator: Prof. S. Hajjaji</p> <p>Zoom link: https://us02web.zoom.us/j/85731217650?pwd=Ujl3V21Ydi9iRmd4cFFKZ3RRYjRSZz09</p>
11h30-12h15	<p>Plenary Conference : Prof. Yves Sallez, Hauts-de-France Polytechnic University, France Title of the talk:" Distributed intelligence for transportation - Example of the Surferlab joint laboratory" Moderator : Prof. R. Allaia</p> <p>Zoom link: https://us02web.zoom.us/j/85731217650?pwd=Ujl3V21Ydi9iRmd4cFFKZ3RRYjRSZz09</p>
12h15-13h00	<p>Plenary Conference : Dr. Wassila Mtalaa, Institute of Science and Technology, Luxembourg Title of the talk: " Advances in the planning of Intelligent Transportation Systems" Moderator : Prof. A. Boudhir</p> <p>Zoom link: https://us02web.zoom.us/j/85731217650?pwd=Ujl3V21Ydi9iRmd4cFFKZ3RRYjRSZz09</p>
13h00-14h00	Virtual Lunch break

Monday 21-06-2021



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Afternoon	
14h30-16h00	Session 1 : Supply Chain Engineering Moderator : Prof. Chafik Okar
16h00-16h30	Session 3 : Smart Communication Systems and RFID Moderator : Prof. Otman El Mrabet and B. Mohsine
Break	
16h30-18h30	Session 2: Intelligent Technologies Moderator : Prof. M. Ben Ahmed, H. El Ghazi
16h30-18h30	Session 4 : Intelligent Transportation System Moderator : Prof A. Boudhir
Morning	
09h00-10h00	Plenary Conference : : Younes Lamarti, DG Maroc, Bolloré Transport & Logistics Title of the talk:"t.b.a" Moderator : Prof. A. Azouani Zoom link: https://us02web.zoom.us/j/88014180326?pwd=QVVvR0NXd1hRM25tV2ZzV1NDa2RpQT09
10h00-11h00	Plenary Conference : PD. Dr. Pavel Gurevich & Dr. Hannes Stuke, MD CertaintyLab UG, Berlin, Germany Title of the talk: "AI based traffic lights optimization" Moderator : Prof. A. Azouani Zoom link: https://us02web.zoom.us/j/88014180326?pwd=QVVvR0NXd1hRM25tV2ZzV1NDa2RpQT09
Break	
11h00-11h15	Plenary Conference : : Samy Mazine, Head of Digital Manufacturing, PSA Group Title of the the talk:"Digital at the service of industrial efficiency" Moderator : Dr. Radouane Lemghari Zoom link: https://us02web.zoom.us/j/88014180326?pwd=QVVvR0NXd1hRM25tV2ZzV1NDa2RpQT09
Virtual Lunch break	
Afternoon	
14h00-15h30	Session 5: Applied Mathematics and Simulations Moderator : Prof. N. Moussaid & B. Ouatrassi
14h00-15h30	Session 6: Intelligent Models and Optimization Systems Moderator : Prof. A. Azouani & B. Abou el majd
Closing Ceremony	
16h00-16h30	Moderator : Prof. B. Abou el majd

Tuesday 22-06-2021



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Session 1: Supply Chain Engineering

Chairman: **Prof. Chafik Okar**

Monday, June 21, 2021

Link Zoom: <https://us02web.zoom.us/j/85731217650?pwd=Ujl3V21Ydi9iRmd4cFFKZ3RRYjRSZz09>

n°	Title and Authors	Time table
1	<i>Mohamed Lahjouji</i> , Jamila El Alami and Mustapha Hlyal Blockchain application to improve Vendor management replenishment in Humanitarian supply chain	14h00-14h10
2	<i>Youssef Lamdasni</i> and Chafik Okar Spare parts supply chain Key elements influencing maintenance system for manufacturing industry - A Systematic Literature Review-	14h15-14h25
3	<i>Abla Chaouni Benabdellah</i> An information system for the evaluation and capitalization of the product development knowledge	14h30-14h40
4	<i>Asmaa Es-Satty</i> , Radouane Lemghari and Okar Chafik Machine learning and supply chain performance : A content structured analysis	14h45-14h55
5	<i>El Filali Aicha</i> , Ben Lahmer El Habib and El Filali Sanaa Exploring applications of Machine Learning for supply chain managemen	15h00-15h10
6	<i>Bais Abdellah</i> and Khalid Amechnoue Impact of COVID-19 on supply chain systems and disruptions consequences	15h15-15h25
7	<i>Ghita Chaouni Benabdellah</i> , Karim Bennis, Abla Chaouni Benabdellah and Kamar Zekhnini KPI's for Sustainable, Resilient and Digital Supplier Selection	15h30-15h40



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Session 2: Intelligent Technologies

Chairmen: Prof. M. Ben Ahmed & H. El Ghazi

Monday, June 21, 2021

Link Zoom: <https://us02web.zoom.us/j/85731217650?pwd=Ujl3V21Ydi9iRmd4cFFKZ3RRYjRSZz09>

n°	Title and Authours	Time table
1	<i>Youssef Bourass</i> and Abdelkhalak Bahri Deep convolutional neural network for Facial Expressions Recognition: comparative study	16h30-16h40
2	<i>Yassine Brij</i> Virtual and Augmented Reality in school context: A literature review	16h45-16h55
3	<i>Ayoub Ghaouta</i> , Ahmed Ouiddad and Okar Chafik Machine Learning for Warehouse Management: A conceptual framework	17h00-17h10
4	<i>Nada Ouahabi</i> , Ahmed Chebak, Mourad Zegrari, Oulaid Kamach and Mouna Berquedich A Distributed Digital Twin Architecture for Shop Floor Monitoring Based on Edge-Cloud Collaboration	17h15-17h25
5	<i>Abdelaziz Elbaghdadi</i> , Ahmed El Oualkadi and Soufiane Mezroui Deeplearning approach to detect the illicit transaction in the bitcoin network	17h35-17h45
6	<i>Ikram Ben Abdel Ouahab</i> , Lotfi Elaachak and Mohammed Bouhorma Convolutional Neural Network for malicious and benign classification from scratch	17h50-18h00
7	<i>Boudhir Anouar Abdelhakim</i> and Ben Ahmed Mohamed The State-of-the-art augmented NLP transformer models for virtual assistants in the medical field Soufyane Ayanouz,	18h05-17h15



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Session 3: Smart Communication Systems and RFID

Chairmen: **Prof. Otman El Mrabet and B. Mohsine**

Monday, June 21, 2021

Link Zoom: <https://us02web.zoom.us/j/88617137598?pwd=OFVVSkr4Tld5UXZTeVJ6dFN0Q0EyZz09>

n°	Title and Authours	Time table
1	<i>Mustapha Maimouni</i> and Badr Abou El Majd New hybrid approach based on artificial neural networks for RFID network planning with random redundant antenna elimination	14h00-14h10
2	<i>Nabil Tazi Chibi</i> , Hassan El Ghazi and Wassim Fassi Fihri Drone Cyber-Attack: An Intrusion Detection Technique Based on RSSI and Trilateration	14h15-14h25
3	<i>Nasreddine Attou</i> , Sid-Ahmed Zidi, Samir Hadjeri and Mohamed Khatir Peak shaving and Valley filling using V2G system in grid connected Microgrid	14h30-14h40
4	<i>Samir Ait Lhadj Lamin</i> , Abdelkader Raghieb and Badr Abou El Majd Deployment of RFID Readers Using a Robust Multi-objective Approach	14h45-14h55
5	<i>Mohamed El Khamlichi</i> , Otman El Mrabet and Alejandro Alvarez Melcon RFID-UHF Tag Antenna for blood tubes tracking	15h00-15h10
6	<i>Mohamed El Amine Lakhal</i> , Otman El Mrabet and Mohamed Ali Ennasar Compact RFID UHF tag antenna mountable on metallic objects: application to container tracking	15h15-15h25
7	<i>Mohammed-Amine Mossadak</i> , Ahmed Chebak and Abdelhafid Ait Elmahjoub Multi-level Architecture Modeling of an Intelligent Energy Management Strategy for Battery/Supercapacitor Electric Vehicle	15h30-15h-40



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Session 4: Intelligent Transportation System

Chairman: **Prof. A. Boudhir**

Monday, June 21, 2021

Link Zoom: <https://us02web.zoom.us/j/88617137598?pwd=OFVVSkr4Tld5UXZTeVJ6dFN0Q0EyZz09>

n°	Title and Authours	Time table
1	<i>Khadija El Hadadi</i> , Samira El Moumen, Othmane Idrissi and Samira Benzekri A new modified Bat algorithm for Air Traffic Flow Management	16h30-16h40
2	<i>Antoine Plissonneau</i> , Damien Trentesaux, Waël Ben-Messaoud and Abdelghani Bekrar AI-based speed control models for the autonomous train: a literature review	16h45-16h55
3	<i>Issam Mallouk</i> , Yves Sallez and Badr Abou El Majd Machine learning approach for predictive maintenance of transport systems	17h00-17h10
4	<i>Maryam Alami Chentoufi</i> and Rachid Ellaia Dynamic management of emergency vehicles	17h15-17h25
5	<i>Soumia Tabit</i> and Aziz Soulhi Road Traffic Management With Fuzzy Logic Approach.	17h35-17h45
6	<i>Mawouena Fongbedji</i> , Mohsine Bouya and Nissrine Krami Energy optimization by coupling Street lighting and Led Based traffic signs	17h50-18h00
7	<i>Mehdi Nabba</i> , Samira Elmoumen and Nouredine Moussaid Multicriteria Transport Problem: a Variable Sharing Approach	18h05-18h15



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Session 5: Applied Mathematics and Simulations

Chairmen: **Prof. N. Moussaid, Prof. B. Ouatrassi**

Tuesday, June 22, 2021

Link Zoom: <https://us02web.zoom.us/j/88014180326?pwd=QVVvR0NXd1hRM25tV2ZzV1NDa2RpQT09>

n°	Title and Authours	Time table
1	<i>Omar Gouasnouane</i> , Nouredine Moussaid and Soumaya Boujena A Nonlinear Fractional Partial Differential Equation for Image Denoising	14h00-14h10
2	<i>Latifa Salama</i> , Hicham Elaouani, Asmae Guennoun, Rachida Moltif and Aouatif Dezairi CFD Simulation In Hollow Fiber And Tubular Membranes	14h15-14h25
3	<i>Nora Nasr</i> , Nouredine Moussaid and Omar Gouasnouane A Nash-game approach to Blind Image Deblurring	14h30-14h40
4	<i>Maryam Alami Chentoufi</i> and Rachid Ellaia Dynamic management of emergency vehicles	14h45-14h55
5	<i>Achraf Sayah</i> , Nouredine Moussaid and Omar Gouasnouane Perona-Malik model with fractional derivative and its application in image processing	15h00-15h10
6	<i>Fatima Zahraa Assad</i> , Mohamed Fettach, Fadwa El Otmani and Abderahim Tragha Two-stage Pipelining Implementation of the Secure Hash Algorithm SHA-3 on Virtex-5 and Virtex-6 FPGAs	15h15-15h25
7	<i>Abdellatif El Ouissari</i> , Karim El Moutaouakil, Hicham Baizriha and Saliha Chellak A review of mathematical models with control approaches to the diabetic population dynamic	15h30-15h40
8	<i>Fatihi Dounia</i> Influence of back substrate and geometry for thin-film micro-concentrator solar cells	15h45-15h55



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Session 6: Intelligent Models and Optimization Systems

Chairmen: **Prof. A. Azouani** and **B. Abou el majd**

Tuesday, June 22, 2021

Link Zoom: <https://us02web.zoom.us/j/87353899684?pwd=cFVNSjdDVDgxUEEx1RDVURUJLdGg5UT09>

n°	Title and Authours	Time table
1	<i>Abla Chaouni Benabdellah</i> and Kamar Zekhnini Sustainable product development: the intersection of Design for X, Big Data and Industrial Internet of Things with fuzzy logic theory	14h00-14h10
2	<i>Youness Karafi</i> , Badr Abou El Majd and Youssef Mesri Surrogate Modeling using Artificial Neural Networks for Wing Airfoil Optimization	14h15-14h25
3	<i>Boulchahoub Hassan</i> and Labriji Elhoussine Extracting text regions from scene images based on Character Energy approach	14h30-14h40
4	<i>Mouhcine Fairadi</i> , Anouar Abdelhakim Boudhir and Mohamed Ben Ahmed Certification authority based on intelligent models and approaches for the security of transactions and information systems	14h45-14h55
5	<i>Noureddine Ettaik</i> and El Habib Benlahmar Hyperparameter optimization in NLP architectures	15h00-15h10
6	<i>Rabie Fadil</i> , Abou El Majd Badr, El Ghazi Hassan, <i>El Bekkali Amina</i> and Kaabouch Naima A Multi-Objective Optimization Approach for Breast Microcalcifications Detection	15h15-15h25
7	<i>Karim El Moutaouakil</i> , Mouna Cheggour, Hicham Baizriha and Saliha Chellak Optimal auto-encoder and fuzzy genetic algorithm to deep daily nutrients requirements representation	15h30-15h40



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<u>Monday 21-06-2021</u>	
9h00-1h00:	Opening Ceremony and Plenary Conference
	https://us02web.zoom.us/j/85731217650?pwd=Ujl3V21Ydi9iRmd4cFFKZ3RRYjRSZz09
14h30-18h30:	Session 1 & Session 2
	https://us02web.zoom.us/j/85731217650?pwd=Ujl3V21Ydi9iRmd4cFFKZ3RRYjRSZz09
14h30-18h30:	Session 3 & Session 4
	https://us02web.zoom.us/j/88617137598?pwd=OFVVSkR4Tld5UXZTeVJ6dFN0Q0EyZz09
<u>Tuesday 22-06-2021</u>	
9h-12h15:	Plenary Conference
	https://us02web.zoom.us/j/88014180326?pwd=QVV5R0NXd1hRM25tV2ZzV1NDa2RpQT09
14h-16h:	Session 5 and Closing Ceremony
	https://us02web.zoom.us/j/88014180326?pwd=QVV5R0NXd1hRM25tV2ZzV1NDa2RpQT09
14h-15h30:	Session 6
	https://us02web.zoom.us/j/87353899684?pwd=cFVNSjdDVDgxUEEx1RDVURUJLdGg5UT09