



2015 4th IEEE Int. Conf. on Advanced Logistics & Transport

May 20-22, 2015 – Valenciennes – France



IEEE ICALT'2015

Conference Guide

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Welcome!

Our heartiest welcome to IEEE ICALT 2015, the 4th IEEE International Conference on Advanced Logistics and Transport taking place in Valenciennes, France. With this fourth edition, the conference is held for the first time in France after successful conferences in Tunisia (2011, 2013, and 2014).

The conference aims to bring together researchers and practitioners to discuss issues, challenges and future directions, share their R&D findings and experiences in the following areas:

- Intelligent Transportation Systems (ITS)
- Human Factors and Design (HFD)
- Shipping and Maritime Logistics (SML)
- Logistics & Supply Chain Management (LSCM)
- Optimization and Logistics Challenges (OLC)

We are pleased to announce that we have received 121 submissions. Only 58 papers (47%) were accepted for presentations. Accepted papers are characterized by a high scientific quality. Each paper was reviewed by at least two members of the program committee, which consisted of about 104 scientists from 23 countries. Contributions were from 26 different countries: Austria, Brazil, Canada, China, Colombia, Czech Republic, France, Germany, Greece, India, Italy, Kazakhstan, Morocco, Netherlands, Norway, Poland, Russia, Saudi Arabia, South Africa, Spain, Taiwan, Thailand, Tunisia, Turkey, United Arab Emirates, and USA.

The conference has gathered the most outstanding scientists and practitioners in all areas of Logistics, Transport, and their applications. Research in this area comprises a wide spectrum of directions, both theoretical and practical, with a perspective which aims to be useful both to people in the academia and in the industry. The conference reflects all these aspects in detail and offers the possibility of discussing and comparing the latest results obtained by researchers all over the world. This makes the ICALT a major international forum for researchers, practitioners, policy makers, industries, and all people who are interested in the latest developments both of research and application of logistics and transport.

The conference program features plenary lectures, regular sessions, special sessions, and social meeting that, taken together, allow leading researchers the opportunity not only to present their independent research but consider new avenues and research directions that will become the future of the field of logistics and transport.

We would like to address special thanks to the technical program committees and the reviewers for their outstanding contribution in reviewing the papers and ensuring an outstanding quality for the conference. Our sincere thanks to our invited three distinguished keynote speakers, special session chairs, and all people who coordinated and organized the operating aspects of the conference.

Last, but not least, we like to really thank all authors and attendees: without their highly valuable contributions and presence no conference can be truly successful.

We wish all the attendees an enjoyable participation and a wonderful time in Valenciennes!

On behalf of the Technical and Organizing Committee,
Mourad Abed & Mounir Benaissa
Conference Chairs

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Venue & Practical Information

IEEE ICALT 2015 will take place the University of Valenciennes et du Hainaut-Cambrésis, Institut des Sciences et Techniques de Valenciennes – **ISTV 2** building (Number 22 on the campus map), AIP, Bâtiment Abel De Pujol 2, situated in the **Campus Mont Houy** (south area of Valenciennes, France).



The conference site is situated 10 min by tram T1 from the center of Valenciennes.

The attendees of the conference will dispose of:

- Keynotes in the room A
- Oral and Poster sessions will be held in the room A and B
- Coffee breaks will be held in the Hall
- Lunches will be held in a separate room

Oral presentations: An oral presenter will have 20 minutes for the presentation (approximately 15 minutes for the talk and 5 minutes for the questions). Please make sure you introduce yourself to the session chair at least 10 minutes prior to the beginning of your session.

Local transportation: Tramway (recommended, Stop at “Université” station), Bus, Taxi.

Currency: The National currency of France is the Euro. Credit cards are accepted in the all hotels and restaurants. ATMs are available and allowing to carry out withdrawals, with the Visa cards and Mastercard.

If you need any urgent help during your stay in France, don't hesitate to call **Mourad Abed** (+33642156716).

Emergency Info: Police: 17 - Ambulance: 15.

We wish you a pleasant stay in France!

General Map (Campus Mont Houy)





4th IEEE ICALT'2015 - Program at a Glance

May 20-22, 2015, University of Valenciennes - France

	20 May 2015		21 May 2015	22 May 2015				
08:30-09:00	Registration		Oral Session LSCM #68, #66, #80, #9, #5	Oral Session ITS #54, #25, #31, #52, #42, #65	Oral Session SS-OTSLPS #2, #3, #8, #32, #51, #17			
09:00-09:30	Opening Session							
09:30-10:00	Plenary Talk 1		Plenary Talk 2 Meng Lu (<i>Netherlands</i>)	Coffee Break & Poster Session #71, #46, #64, #44, #79, #22				
10:00-10:30	<i>Jiuh-Biing Sheu (Taiwan)</i>							
10:30-11:00	Coffee Break		Coffee Break	Plenary Talk 3 <i>Adel M. Alimi (Tunisia)</i>				
11:00-11:30	Oral Session ITS #72, #81, #74, #82, #75		Oral Session LSCM #7, #26, #77, #14, #33			Awards & Closing Session		
11:30-12:00								
12:00-12:30								
12:30-13:00	Lunch		Lunch	Lunch				
13:00-13:30								
13:30-14:00	Oral Session OLC #13, #78, #67, #73, #76, #63	Oral Session LSCM #10, #11, #18, #20, #23, #27	Social Activities: Touristic visit at 14:00 Gala Dinner at 19:30					
14:00-14:30								
14:30-15:00								
15:00-15:30	Coffee Break					<ul style="list-style-type: none"> • ITS: Intelligent Transportation Systems • LSCM: Logistics & Supply Chain Management • OLC: Optimization and Logistics Challenges • SS-EIMLP: Special Session on Environmental Issues in Management of Logistic Processes • SS-OTSLPS: Special Session on Optimization Tools for Sustainable Logistics and Production Systems 		
15:30-16:00								
16:00-16:30	Oral Session SS-EIMLP #37, #38, #39, #40, #43, #48	Oral Session LSCM #24, #28, #34, #53, #55, #58, #83						
16:30-17:00								
17:00-17:30								
17:30-18:00								
18:00 -								

Plenary Talk 1

Time: Wednesday, May 20, 2015, 09:30 – 10:30

Location: Room A

Chairs: Adel M. Alimi (Univ. Sfax, Tunisia) & Thierry-Marie Guerra (Univ. Valenciennes, France)

Emergency Logistics Management – Challenges, Trends, and Solutions



Jiu-Biing Sheu

Editor-in-Chief, Transportation Research Part E: Logistics and Transportation Review

Distinguished Professor, National Taiwan University

Abstract. Nowadays, disasters, either man-made or natural, existing ubiquitously on the earth, have been a common issue encountered by people around the world. Emergency logistics management, thus, emerges and becomes increasingly important in the field of logistics management and related areas. This presentation sheds light on not only the critical issues needed to be addressed but also the research trend and potential solutions for emergency logistics management. Furthermore, several hot research topics and works published in top-tier journals including Transportation Research Parts B and E are illustrated. Briefly, the aim and scope of emergency logistics management and future research in related areas should be extended to take into account what disaster-affected people really need to achieve the ultimate goal of maximizing the value of life added for human beings.

Biography. Jiu-Biing Sheu holds the distinguished professor at National Taiwan University. He is also the Editor in Chief of Transportation Research Part E, and editorial board member of Industrial Marketing Management. Professor Sheu has published over fifty refereed journal articles in academic journals, including Transportation Research Parts A, B, C, E, F, Transportation Science, and Production and Operations Management, with a half of them by singly authored. Additionally, Professor Sheu published two special issues on Emergency Logistics management and Green Supply Chain Management for Transportation Research Part E in 2007 and 2011, respectively. His research areas cover Intelligent Transportation Systems (ITS), Emergency Logistics, Green Supply Chain Management, Business-to-Business Marketing, Quantum Optical Flow Theory and its Applications in ITS, Behavioral Operations Management, Green Marketing, Affect Science and Cognition in Decision Science. He received Outstanding Researcher Awards from National Science Council of Taiwan in 2006 and 2012; Outstanding Young Researcher Project, National Science Council, Taiwan (2011-2015); Outstanding Scholar Research Project, National Science Council, Taiwan (2008-2011); Outstanding Researcher Award, National Chiao Tung University (2004) and Da-You Wu Outstanding Junior Researcher Award, National Science Council, Taiwan in 2003.

#ITS – Intelligent Transportation Systems ITS I

Time: Wednesday, May 20, 2015, 11:00 – 12:40

Location: Room A

Chairs: Thierry-Marie Guerra (Univ. Valenciennes, France) & Ouajdi korbaa (Univ. Sousse, Tunisia)

- ITS72 A new approach for a safe car assistance system**
Majdi Ben Dkhil, **Mohamed Neji**, Ali Wali and Adel M. Alimi
REGIM-Lab, National Engineering School of Sfax, University of Sfax, Tunisia
- ITS81 On Experimental analysis of Zigbee RF signal performances for railway application:
Study on a laboratory reduced scale train**
Sara I Ben jellal, O. Cohin, S. Baranowski, U. Biaoou, M. Bocquet, A. Rivenq
University of Valenciennes, France
- ITS74 Collection and exploration of GPS based vehicle traces database**
Wiam Elleuch, Ali Wali and Adel M. Alimi
REGIM-Lab, National Engineering School of Sfax, University of Sfax, Tunisia
- ITS82 Modeling of Zigbee (IEEE 802.15.4) Channel in Rail**
Ulrich Biaoou, Laïd Sadoudi, Michael Bocquet, and Atika Rivenq
University of Valenciennes, France
- ITS75 Big Data Analytics for Logistics and Transportation**
Abelkarim Ben Ayed, **Mohamed Ben Halima** and Adel M. Alimi
REGIM-Lab, National Engineering School of Sfax, University of Sfax, Tunisia

#OLC – Optimization and Logistics Challenges OLC

Time: Wednesday, May 20, 2015, 13:30 – 15:30

Location: Room A

Chairs: Hamid Allaoui (Univ. Artois, France) & Maciej Szkoda (Cracow University of Technology, Poland)

- OLC13 Towards the full automation of distribution centers**
Marco Bonini, Domenico Prenesti, **Augusto Urru** and Wolfgang Echelmeyer
Hochschule Reutlingen, Germany
- OLC78 Green collaborative transport planning model with time windows: a case study in food retailing**
Nicolas Danloup, Hamid Allaoui and Gilles Goncalves
University of Artois, France
- OLC67 Hub Location and Routing Problem with alternative Paths**
Fabio Francisco Fontes and Gilles Goncalves
University of Artois, France
- OLC73 Return multi sourcing lot-sizing problem in a hybrid manufacturing remanufacturing system under carbon emission constraint**
Tarik Zouadi, **Mohamed Reghioui** and Alice Yalaoui
University Abdelmalek Essaadi, Marocco
- OLC76 System of Traceability Management: Literature review and Proposal of a System Integrating Risk Management for Hazardous Products Transportation**
Mohamed Haykal Ammar, Mounir Benaissa and Habib Chabchoub
LOGIQ Research Unit, ISGI, University of Sfax, Tunisia
- OLC63 Sustainable Supply Chain Planning and Optimization Trade-offs between Cost, GHG Emissions and Service Level**
Amin Chaabane and Ramin Geramianfar
École de technologie supérieure (ÉTS), Montreal, Canada

#LSCM – Logistics & Supply Chain Management LSCM I

Time: Wednesday, May 20, 2015, 13:30 – 15:30

Location: Room B

Chairs: Gilles Goncalves (Univ. Artois, France) & Houcine Ezzedine (Univ. Valenciennes, France)

- LSCM10 Planning of the Spare Parts Supply in the System of Corporate Service Automotive Company Abroad**
Irina Makarova, Rifat Khabibullin, Dmitry Zhdanov, Eduard Belyaev and Eduard Mukhametdinov
Kazan Federal University, Russian Federation
- LSCM11 Formation of industrial-logistic parks in Kazakhstan**
Gulmira Bodaubayeva
Almaty Management University, Kazakhstan
- LSCM18 Generating a business model canvas for Future-Internet-based logistics control towers**
Cyril Alias, Alexander Goudz, Mandar Jawale and Bernd Noche
University of Duisburg-Essen, Transport Systems and Logistics, Germany
- LSCM20 Lean Supply Chain Management-based Value Stream Mapping in a Case of Thailand Automotive Industry**
Kanda Boonsothonsatit and Siripong Jungthawan
King Mongkut's University of Technology Thonburi, Thailand
- LSCM23 A Common Language for Logistics Services Interoperability**
Marta Gonzalez-Rodriguez, Audun Vennesland and **Simon Dalmolen**
University of Twente, Netherlands
- LSCM27 Monitoring dynamic risk evolutions in operational flows of a supply chain**
Chokri Lajimi, Amine Boufaied and **Ouajdi Korbaa**
University of Sousse, Tunisia

#SS-EIMLP – Special Session on Environmental Issues in Management of Logistic Processes

Time: Wednesday, May 20, 2015, 16:00 – 18:00

Location: Room A

Chairs: Marta Starostka-Patyk (Czestochowa University of Technology, Poland) & Tomasz Nitkiewicz (Czestochowa University of Technology, Poland)

EIMLP37 Eco-Logistics Conditions Including Automotive Industry in the Light of Sustainable Development

Pawel Smolnik and **Monika Kozerska**

Czestochowa University of Technology, Poland

EIMLP38 Trends in development of clean energy enterprises in the context of the corporate sustainability concept

Monika Strzelczyk and Marlena Grabowska

Czestochowa University of Technology, Poland

EIMLP39 Environmental Strategies in the Management of Transport & Logistics Sector Companies

Oksana Seroka-Stolka and Piotr Tomski and **Aleksander Pabian**

Czestochowa University of Technology, Poland

EIMLP40 Proposal for the use of morphology to refine problematic issues from ecologistics scope

Aleksander Pabian

Czestochowa University of Technology, Poland

EIMLP43 Supporting life cycle based analysis with costs related information. Case study of defective products scenarios for cellular phones

Tomasz Nitkiewicz

Czestochowa University of Technology, Poland

EIMLP48 Logistics management of defective products and motives of such products acceptance in the light of returns policy and company profitability: The case of Polish production

Marta Starostka-Patyk

Czestochowa University of Technology, Poland

#LSCM – Logistics & Supply Chain Management LSCM II

Time: Wednesday, May 20, 2015, 16:00 – 18:00

Location: Room B

Chairs: Jiu-Biing Sheu (National Taiwan University, Taiwan) & Teresa Gajewska (Cracow University of Technology, Poland)

-
- LSCM24** **Supply chain orchestration and choreography: programmable logistics using semantics**
Simon Dalmolen, Arjan Stoter, Erik Cornelisse, Hans Moonen and Jos van Hillegersberg
University of Twente, Netherlands
- LSCM28** **Impact of Kurtosis on Performance of Mixture Control Chart Patterns Recognition Using Independent Component Analysis and Neural Networks**
Trasapong Thaiupathump and Rungchat Chompu-Inwai
Chiang Mai University, Thailand
- LSCM34** **Intelligent Receiver for M-OAM IR-UWB Modulations System**
Lamyae Maatougui, Atika Rivenq, Yassin El Hillali, Abdelowahed Hajjaji and Hassan Ouahmane
University of Valenciennes, France
- LSCM53** **Aggregate Planning Problem from Sustainability Perspective**
Öztürk Saraçoğlu, Mehmet Can Arslan and Metin Tümkay
Koc University, Turkey
- LSCM55** **Distribution and operation planning at a cross-dock platform: A case of study at Renault**
Christian Serrano¹, Xavier Delorme² and Alexandre Dolgui²
¹ Renault, France
² Ecole des Mines de Saint-Etienne, Saint Etienne, France
- LSCM58** **Logistic Corridors Modelled with Agent-based Approach and Dynamic Graphs**
Thibaut Démare, Cyrille Bertelle, Antoine Dutot and Laurent Lévêque
LITIS - University Le Havre, France
- LSCM83** **Optimize the Occupation of Parking Lots By a Network of Multi-Agents System**
Benhassine Sanaa, Mraïhi Talel and Mraïhi Rafaa
University of Mannouba, Tunisia

#LSCM – Logistics & Supply Chain Management LSCM III

Time: Thursday, May 21, 2015, 08:20 – 10:00

Location: Room A

Chairs: Metin Türkyay (Koc University, Turkey) & Amin Chaabane (ETS, Canada)

- LSCM68 Designing Supply Chain Performance Measurement and Management Systems : A Systemic Perspective**
Lakri Siham, Bocquet Jean-Claude, Grégoire Laurent, Dallery Yves and Jemai Zied
Ecole Centrale Paris, Châtenay-Malabry, France
- LSCM66 Vehicle routing for improving financial performance: a case study of a freight transportation service provider in Thailand**
Chonlatis Charoenwong and Somchai Pathomsiri
Mahidol University, Thailand
- LSCM80 Urban Distribution Centers' Location Selection's Problem: A survey**
Maroi Agrebi, Mourad Abed and Mohamed Nazih Omri
University of Valenciennes, France
- LSCM9 The variability of supply chain parameters and their influence on distribution network with the use of "Emergency Lateral Transshipment"**
Mohamed Salim Amri Sakhri and Mounira Tlili
Higher Institute of Management in Tunis-Tunisia
- LSCM5 The Methodology of Demand Forecasting System Creation in an Industrial Company– The Foundation to Logistics Management**
Martin Hart, Marek Tomaščík and Romana Heinzová
Faculty of Logistics and Crisis Management, Czech Republic

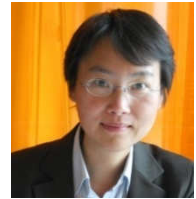
Plenary Talk 2

Time: Thursday, May 21, 2015, 10:00 – 11:00

Location: Room A

Chairs: Jiuh-Biing Sheu (National Taiwan University, Taiwan) & Artiba Hakim (Univ. Valenciennes, France)

ICT-based ITS and Logistics: Trends, Challenges and Needs for Future Research and Innovation



Meng Lu

Program Manager International, Dutch Institute for Advanced Logistics, Netherlands

Member, Board of Governors, IEEE ITSS (Intelligent Transportation Systems Society)

Abstract. Information and Communication Technologies are fundamental building blocks for sustainable transport and logistics (including all modes - road, rail, water and air). More efficient, safe, secure and energy-saving transport and logistics are essential for fulfilling the rapidly increasing needs of sustainability (including economic, environmental and societal dimensions). To achieve this, a safer and congestion-free physical infrastructure, a proper information infrastructure (for passenger and freight transport), seamless services, as well as appropriate cooperation and collaboration between different organisations are required. The challenges cover interdisciplinary areas, such as passenger mobility, logistics and supply chain management, land use policy and planning, technological development, economic, legal and financial issues, as well as behaviour of individuals, companies and governments. ICT solutions enable acceleration of ITS implementations, enhancement of intelligent hubs and corridors and intensified (horizontal and vertical) collaboration. This presentation will address the trends and challenges of sustainable transport and logistics from various perspectives, including technologies, organisational issues and business models, as well as policy and legal issues.

Biography:

From 2011, Program Manager International at Dutch Institute for Advanced Logistics. In 2009 and 2010 Visiting Professor at the National Laboratory for Automotive Safety and Energy, Tsinghua University, P.R. China. Since 2002 active in the area of ICT-based ITS (Intelligent Transport Systems). Since 2011 also active in the area of logistics and supply chain. Participation in (FP6 and FP7) EU-funded projects as Coordinator, Workpackage Leader and Partner. Involved in European initiatives, inter alia the ETP (European Technology Platform) on Logistics (named ALICE since June 2013) and EU-China R&D collaboration.

Board memberships: Member, Board of Governors, IEEE ITSS (Intelligent Transportation Systems Society); Chair, IBEC (international forum for the evaluation of ITS development and deployment); Member, International Programme Committee of the World and European Congresses on ITS; Advisory Board Member, Supply Chain and Logistics Summit; Editorial Board Member, IET (Institution of Engineering and Technology) ITS; Program Chair, IEEE IV 2012.

Education: PhD, Lund Institute of Technology, Lund University, Sweden; Dutch Master's degree of Engineering; participation in a Business Administration Programme at Nyenrode University, The Netherlands; Master's degree of Civil Engineering at Harbin Institute of Technology in P.R. China.

#LSCM – Logistics & Supply Chain Management LSCM IV

Time: Thursday, May 21, 2015, 11:30 – 13:10

Location: Room A

Chairs: Christophe Artiba Hakim (Univ. Valenciennes, France) & Martin Hart (Faculty of Logistics and Crisis Management, Czech Republic)

- LSCM7** **Customer Logistic Service in the Automotive Industry with the Use of the ERP System**
Augustyn Lorenc and Maciej Szkoda
Cracow University of Technology, Poland
- LSCM26** **Management of mobile resources in Physical Internet logistic models**
Jean-Yves Colin, Moustafa Nakechbandi and Hervé Mathieu
LITIS - Le Havre University, France
- LSCM77** **Textual extraction and classification for medical risk management: a new Risk Management Platform to manage undesired medical events**
Salah Zidi, Thibaut Julien, Anis Mjirda and Fouad Maaloul
BiomediQa group, France
- LSCM14** **Importance of logistics services attributes influencing customer satisfaction**
Teresa Gajewska and Evangelos Grigoroudis
Cracow University of Technology, Poland
- LSCM33** **Decision-making factors leading to customers' satisfaction in container transportation**
Eva Sramkova, Eduard Niko and Petr Kolář
University of Economics, Prague, Czech Republic

#ITS – Intelligent Transportation Systems ITS II

Time: Friday, May 22, 2015, 08:30 – 10:30

Location: Room A

Chairs: Christophe Kolski (Univ. Valenciennes, France) & Atika Rivenq (Univ. Valenciennes, France)

- ITS54 Towards a Quality model for the Evaluation of Mobile Decision support Systems**
Emna Ben Ayed^{1,2}, Mounir Ben Ayed¹, Christophe Kolski² and Houcine Ezzedine²
¹REGIM-Lab, National Engineering School of Sfax, University of Sfax, Tunisia
²LAMIH, UMR CNRS 8201, University of Valenciennes, France
- ITS25 Application of Ant Colony Optimization algorithms for transportation problems using the example of the Travelling Salesman Problem**
Zbigniew Świątnicki
Polish Air Force Academy, Poland
- ITS31 Characterization of Mobile Phone Localization Errors with OpenCellId Data**
Michael Ulm, Peter Widhalm and Norbert Brändle
Austrian Institute of Technology, Austria
- ITS52 Solving Airport Gate assignment problem using Genetic Algorithms approach**
Hammadi Ghazouani, Moez Hammami and **Ouajdi Korbaa**
University of Monastir, Tunisia
- ITS42 A Semantic Approach of Rule Based Document Retrieval for Ship Survey**
Wen Lu, Shidong Fan and Cao Jiyin
Wuhan University of Technology, China
- ITS65 Ontology based performance evaluation of public transport systems**
Salima Mnif, **Sabeur Elkosantini**, Sarra Galoui, Saber Darmoul and Lamjed Ben Said
King Saud University, Saudi Arabia

#SS- OTSLPS Special Session on Logistics Optimization tools for Sustainable Logistics and Production Systems

Time: Friday, May 22, 2015, 08:30 – 10:30

Location: Room B

Chairs Jairo R. Montoya-Torres (Univ. la Sabana, Colombia) & Damien Trentesaux (Univ. Valenciennes, France)

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- OTSLPS2 Designing Sustainable Supply Chains Based on the Triple Bottom Line Approach**
Jairo R. Montoya-Torres
Universidad de La Sabana, Colombia
- OTSLPS3 Reducing aircraft life vest underutilisation by implementing RFID-enabled inspections**
Marco Andreacchio
EAM Worldwide, Dubai, United Arab Emirates
- OTSLPS8 Workforce Scheduling with Social Responsibility Considerations**
Carlos A Moreno-Camacho and Jairo R Montoya-Torres
Universidad de La Sabana, Colombia
- OTSLPS32 Design for remanufacturing respecting reverse logistics processes: A review**
Atour Taghipour, Mourad Abed and Nesrine Zoghalmi
University of Le Havre, France
- OTSLPS51 An Efficient Solution to Location-Routing Problems via Two Phase Heuristic Bubble Approach**
Akin Ilker Savran, **Erhan Musaoglu**, Cagdas Yildiz and Mehmet Fatih Yuce
LA Software Group, Turkey
- OTSLPS17 Riding the African Blue Economy Wave: A South African Perspective**
Johan Spamer
University Stellenbosch, South Africa

#Poster Session

Time: Friday, May 22, 2015, 10:30 – 11:30

Location: Room B

Chairs: Adel M. Alimi (Univ. Sfax, Tunisia) & Metin Türkay (Koc University, Turkey)

- #71** **Advanced control units' diagnostic based on Ethernet for smart cars**
Hela Lajmi, **Habib M. Kammoun** and Adel M. Alimi
REGIM-Lab, National Engineering School of Sfax, University of Sfax, Tunisia
- #46** **Sustainable Performance Evaluation of the Supply Chain**
Ahlem Jallali and **Mounir Benaissa**
ISGI-University of Sfax, Tunisia
- #64** **Combining Taguchi approach and Response Surface Methodology for lot-sizing problem in MTO supply chain**
Ahmed Ammeri, Wafik Hachicha and Habib Chabchoub
LOGIQ Research Unit, ISGI, University of Sfax, Tunisia
- #44** **Evaluation of waste management facilities performance – the case study of activities comparative analysis in Polish waste management facilities**
Marta Starostka-Patyk and Helena Koscielniak
Czestochowa University of Technology, Poland
- #79** **Simulator Logistics Competence, Profession and Training**
Yamina Ghobni and Mourad Abed
LAMIH, University of Valenciennes, France
- #22** **The Multi-objective Capacitated Facility Location Problem for Green Logistics**
Xifeng Tang and Ji Zhang
Hohai University, China

Plenary Talk 3

Time: Friday, May 22, 2015, 11:30 – 12:30

Location: Room A

Chairs: Jairo R. Montoya-Torres (Univ. la Sabana, Colombia) & Ouajdi korbaa (Univ. Sousse, Tunisia)***Hybrid Intelligent Systems & Big Data Streams Analytics*****Adel M. Alimi***University of Sfax, Tunisia*

Abstract. BigData are typically produced in different sectors of the above organizations, often geographically distributed throughout the world, and are characterized by a large size and variety. Big Data is not just about storage of and access to data. Therefore, there is a strong need for such Big Data streams analytics. Big Data analytics is considered as an imperative aspect to be further improved in order to increase the operating margin of both public and private enterprises, and represents the next frontier for their innovation, competition, and productivity. Analytics play a big role in making sense of that data and exploiting its value. But learning from big data has become a significant challenge and requires development of new types of algorithms. Most machine learning algorithms can't easily scale up to big data. Plus there are challenges of high-dimensionality, velocity and variety.

Biography: Adel M. Alimi (IEEE Student Member'91, Member'96, Senior Member'00). He graduated in Electrical Engineering in 1990. He obtained a PhD and then an HDR both in Electrical & Computer Engineering in 1995 and 2000 respectively. He is full Professor in Electrical Engineering at the University of Sfax, ENIS, since 2006. He is founder and director of the REGIM-Lab. on intelligent Machines.

Prof. Alimi was advisor of 52 PhD Thesis. He is the holder of 15 Tunisian patents. He served also as Expert evaluator for the European Agency for Research since 2009. He managed funds for 22 international scientific projects (total budget: 1161.1 k€, 20.6 k\$CAN, 67 kTND). He managed funds for several national scientific projects (total budget: 560+ kTND).

Prof. Alimi research interests include iBrain (Evolutionary computing, Swarm intelligence, Artificial immune systems, Fuzzy Sets, Uncertainty analysis, Fractals, Support vector machines, Artificial neural networks, Case Based, Reasoning, Wavelets, Hybrid intelligent systems, Nature inspired computing techniques, Machine learning, Ambient intelligence, Hardware implementations, Multi-Agent Systems, iRobotics, Multi-Robots, Autonomous Robots) & iPerception (Classification, Classifiers Combination, Features Extraction, High Dimension Classification Problems, Handwriting Recognition, Handwriting Modeling, Motor Control, Perception, OCR, Arabic Script, Historical Documents Analysis, iDocument, iVision, Remote Sensing, Affective Computing) & iData (Big Data, iWeb, Biometry, Data Mining, Web Mining, Cloud Computing).

Prof. Alimi served as associate editor and member of the editorial board of several international scientific journals (IEEE Transactions on Neural Networks and Learning Systems, IEEE Transactions on Fuzzy Systems, Pattern Recognition Letters, NeuroComputing, Neural Processing Letters, International Journal of Image and Graphics, Neural Computing and Applications, International Journal of Robotics and Automation, International Journal of Systems Science, EURASIP Journal on Advances in Signal Processing, Journal of Universal Computer Science). He was guest editor of several special issues of international journals (e.g. Fuzzy Sets & Systems, Soft Computing, Journal of Decision Systems, Integrated Computer Aided Engineering, Systems Analysis Modelling and Simulations). He organized several international conferences: ICDAR'15, INNS-BigData'15, SOLI'15, SoCPaR'14, ICALT'15&'14&'13, ICBR'13, HIS'2013, IAS'13, ISI'12, NGNS'11, LOGISTIQUA'11, ACIDCA-ICMI'05, SCS'04, ACIDCA'2000.

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