

November 21, 22 & 23, 2018
Marrakech - Morocco

IEEE
ICTMOD

IEEE International Conference on Technology Management, Operations and Decisions

*" Digital Innovation and
Business Transformation "*



PROGRAM



Our Partners

PROGRAM

8.30 AM : Registration

November 21, 2018		
		Plenary room
9.00 AM	Welcome & Guest speakers	<ul style="list-style-type: none">• Karim Kassi-Lahlou, Wali, Marrakech-Safi region• Driss Ouazar, Provost, University Mohammed VI Polytechnic• Abdellatif Miraoui, President, Cadi Ayyad Marrakech University• Mohamed Abdelfattah Charif Chefchaoui, Director INPT• Mourad Oubrich, General Chair, IEEE ICTMOD 2018• Robert Bierwolf, VP Conferences IEEE TEMS & Co-Chair IEEE ICTMOD 2018
9.30 AM	Keynote speakers & Debate	<p>Digital Transformation : Challenges and Opportunities Chair : Robert Davison, Professor at City University of Hong Kong</p> <ul style="list-style-type: none">• Robert Bierwolf, VP Conferences, IEEE Technology and Engineering Management Society<ul style="list-style-type: none">◦ Managing Change and Business Transformations in the era of Digital Innovation• Ouafa Kathir, Head of Program within UN and International ICT expert within World bank<ul style="list-style-type: none">◦ From Big data to Artificial Intelligence : The digital disruption happening now
10.45 AM	Coffee break	
11.00 AM	Keynote speakers & Debate	<p>Digital Transformation in Supply Chain and Logistics Chair : Ilham Kissani, Professor at Al Akhawayn University in Ifrane in Morocco</p> <ul style="list-style-type: none">• Benoit Montreuil, Professor & Coca-Cola Material Handling & Distribution Chair, Georgia Tech, US<ul style="list-style-type: none">◦ Towards Hyperconnected Supply Chains and Logistics Systems : Physical Internet Induced Business Model Innovation• Mark Pagell, Professor, University College Dublin, Ireland<ul style="list-style-type: none">◦ Sustainable Supply Chain and Business Transformation
12.30 AM	Lunch	

14.00 PM : Parallel sessions

Room 1 / Session 1

Complex optimization problems of conventional and reverse logistics
Chairs : Omar Souissi & Abdelghani Bekrar

- A hybrid method for a dynamic vehicle routing problem
Ouertani Nasreddine, Issam Nouaouri, Hamid Allaoui
- Modeling vehicle queues at a marine container terminal using non-stationary queuing approach
Sara Belaqqiz, Fatima Bouyahia, Saâd Lissane elhaq, Jaouad Boukachour
- Hybrid metaheuristic to solve location problem for electric vehicles charging stations
Khaoula Chraïbi, Abdelahad Chraïbi, Ilham Chaker, Azeddine Zahi, Abdelghani Bekrar
- The optimization of Reverse Logistics activities: A Literature Review and Future Directions
Hajar El Hachimi, Mourad Oubrich, Omar Souissi
- A Hybrid Particle Swarm Optimization and Tabu Search algorithm for adaptive traffic signal timing optimization
Maryam Alami Chentoufi

Room 3 / Session 3

Enterprise Data Management Systems
Chairs : Hamid El Ghazi & Robert Bierwolf

- Working Around Inadequate ERP
Robert Davison, Louie Wong, Carol Ou, Steven Alter
- A Framework for Combined Querying of Structural and Non-Structural Databases
Khaleel Mershad
- Decision support methodology to reduce quality-related costs within mass production
Sebastian Schötz, Jan Koller, Frank Döpfer
- ERP system customization in Moroccan SMEs
Omar Khadruf, Marieme Chouki, Mohamed Talea, Assia Bakali
- Technology roadmap driven value chain creation and technology value chain management
Kivilcim Ersoy

Room 2 / Session 2

Management Sciences
Chairs : Raid Al-Aomar & Manlio Del Giudice

- Framework for the identification and demand-oriented classification of digital technologies
Andre Lipsmeier, Michael Bansmann, Daniel Röltgen, Christian Kürpick
- A conceptual framework for facility Management in higher education institutions in Saudi Arabia
Abdulaziz S. Alsayyari, Adel Khalid Alblawi, Mohammad Nawab, Ahmed Alosaimi
- Conceptualizing and measuring customer experience for a mobile telecoms operator: The customer's perspective
Ikrame Belabbes, Mourad Oubrich
- Are bitcoin investors overconfident? A FIEGARCH approach
Abdelati Hakmaoui, Ouail Eljebari

Room 4 / Session 4

Digital Adoption
Chairs : Chafik Okar & Esmail Ahouzi

- Does the adoption of ERP systems help improving decision-making? A systematic literature review
Ahmed Ouiddad, Chafik Okar, Razane Chroqui, Imane Beqqali Hassani
- Does quality affect the adoption of an information system in a Moroccan company?
Imane Beqqali Hassani, Razane Chroqui, Chafik Okar, Mohamed Talea, Ahmed Ouiddad
- Cloud computing adoption in developing countries: A systematic literature review
Ibtissam M'rhaouarh, Chafik Okar, Abdelwahed Namir, Nadia Chafiq, Ibtissam M'rhaouarh
- Organizational culture as a barrier of information technology adoption: The case of Moroccan Small and Medium Enterprises
Marieme Chouki, Omar Khadruf, Mohamed Talea, Chafik Okar
- Big Data Analytics Adoption in Warehouse Management: A Systematic Review
Ayoub Ghaouta, Abdelali El bouchti, Chafik Okar

15.30 PM : Coffee break

15.45 PM : Parallel sessions

Room 1 / Session 5

Mobility
Chairs : Hamid Allaoui
& Badr Abou El Majd

- Autonomous Vehicles Delivery Systems Classification: Introducing a TSP with a Moving Depot

Batool Madani, Malick Ndiaye

- A Robust GNSS LOS/Multipath Signal Classifier based on the fusion of information and Machine Learning for Intelligent Transportation Systems

Guermah Bassma, Hassan El Ghazi, Tayeb Sadiki, Guermah Hatim

- Improvement of the Vehicle Clutch's Diagnosing System with the Use of Vibrodiagnostics

Irina Makarova, Eduard Mukhametdinov, Ksenia Shubenkova, Vadim Mavrin

- Electric vehicle routing problem: multi-objective model and solving approaches

Jihane Serrar, Rachid Ellaia, El-Ghazali Talbi

- Maintenance success factors identification using the fuzzy AHP

Mehdi Amine Naji, Ahmed Mousrij

Room 3 / Session 7

Disruptive Technologies
Chairs : Hamid El Ghazi
& Scott Cunningham

- How the Blockchain fosters E/E traceability for MBSE and PLM in distributed engineering collaboration

Dominik T. Heber, Marco W. Groll

- Blockchain Enabled Traceability - Securing Process Quality in Manufacturing Chains in the Age of Autonomous Driving

Marlene Kuhn, Huong Giang Nguyen, Heiner Otten, Joerg Franke

- Internet of things security

Jihad Dazine

- The Internet of Things: Overview of the essential elements and the new enabling technology 6LoWPAN

Meryem Lamkimel, Najib Naja, Abdellah Jamali, Aymen Yahyaoui

- Towards to a new IoT Interoperability Architecture

Rachida Ait Abdelouahid, Mohammed Oqaidi, Abdelaziz Marzak

Room 2 / Session 6

Management Sciences
Chairs : Abdelati Hakmaoui
& Benoit Montreuil

- Lean six sigma implementation for Just-in-time and waste elimination in the banking sector

Omar Souissi, Annis Nasri, Omar Benyahia

- Regulatory Trends of customer relationship from the mobile service professionals perspective

Aziza Amine, Mourad Oubrich

- Identifying and analysing challenges of forming of engineered collaboration network : a Case study of collaboration network for the development of vital signs monitoring

Mohammad Torabi khargh, Hadi Nilforoushan, Hashem Moazzez, Seyed Mohammad Sahebkar Khorassani

- State of the Art and Trends of the Research on Social Media Use in Organization: Bibliometric Analysis from 2007-2017

Layla Ezzouine, Aziza Amine, Mourad Oubrich

Room 4 / Session 8

SSCM 4.0
Chairs : Mark Pagell &
Omar Souissi

- An Exploratory Study to Examine Big Data Application on Services and Supply Chain Management

Satya Shah, Anastasia Theodosoulaki

- Evaluation of Internet of Things (IoT) and its Impacts on Global Supply Chains

Satya Shah, Katerini Ververi

- Towards a Sustainable Demand Chain Framework: Successful Product Development Integration and Drivers

Elmira Naghi Ganji, Satya Shah, Alec Coutroubis, Ingo Gestring

- Potential Impact of Industry 4.0 in Sustainable Food Supply Chain Environment

Olumide Olajide Ojo, Satya Shah, Alec Coutroubis, Mercedes Torres Jimenez, Yolanda Munoz Ocana

- An Overview of Smart Manufacturing for Competitive and Digital Global Supply Chains

Sarath Menon, Satya Shah, Alec Coutroubis

17.30 PM : End of Parallel Sessions

18.15 PM : Walk to Place Jemaa El-Fna

November 22, 2018

		Plenary room
9.00 AM	Keynote speakers & Debate	<p>Digital innovation and Business transformation Chair : Robert Bierwolf</p> <ul style="list-style-type: none">• Manlio Del Giudice, Professor; University of Rome, Italy<ul style="list-style-type: none">o Digital innovation and future of Knowledge Management• Talbi El-Ghazali, Full Professor, University of Lille, France<ul style="list-style-type: none">o New trends of Smart Grid optimization
10.30 AM	Coffee break	
10.45 AM	Roundtable	<p>Publishing in Technology, Engineering Management & Supply Chain Management and other high impact journals Chair : Benoit Montreuil, Professor & Coca-Cola Material Handling & Distribution Chair, Georgia Tech (US)</p> <ul style="list-style-type: none">• Robert Davison, Editor-in-Chief of the Information System Journal• Manlio Del Giudice, Editor-in-Chief of the Journal of Knowledge Management• Mark Pagell, Co-Editor-in-Cheif for The Journal of Supply Chain Management• Scott Cunningham, Associate Editor of the journal Technological Forecasting and Social Change
12.15 AM	Lunch	

13.30 PM : Parallel sessions

Room 1 / Session 9

Supply Chain Engineering
Chairs : Omar Souissi
& Talbi El-Ghazali

- Supply Chain Digital Innovation in Complex Capital Projects **Yasmine Sabri, Paolo Trucco, Ignazio Saverio Morganti**
- Reliability Analysis of Logistics Network under Time based resource allocations
Malick Ndiaye, Mehmet Ertem
- Development of the Integrated Information Environment to Connect Manufacturer and Its Dealer and Service Network **Ksenia Shubenkova, Irina Makarova, Vadim Mavrin, Nikolay Goryaev**
- A Roadmap for evolution of existing production system toward the factory of the future: A case study in automotive industry
Mojtaba Ebrahimi, Armand Baboli, Eva Rother

Room 3 / Session 11

Manufacturing Excellence
Chairs : Satya Shah & Ilham Kissani

- Lean Six Sigma Application to Improve a Water Bottling Process **Raid Al-Aomar**
- Measuring change management performance : a case study of a Moroccan construction company
Abdelouahab Errida, Bouchra Lotfi, Elalami Semma
- A generic approach of modelling perturbation of Mechanical Systems: Concept with Bond Graph
Yassine Baqqal, Mohammed El hammoumi
- State of the art in maintenance modelling and simulation approaches for maintenance systems
Yassine Baqqal, Mohammed El hammoumi
- A Novel scheme of High-Speed Phase-Frequency Detector for Low-Power Low-Phase noise PLL Design
Karim Zouaq, Abdelhamid Aitoumeri, Abdelmalik Bouyahyaoui

Room 2 / Session 10

Analytics
Chairs : Zineb El Akkaoui
& Hassan El Ghazi

- Concepts and Constructs of Urban Sensing
Scott Cunningham, Alexander Verbraeck
- Quantum formalism contributions for decision: the identification of optimal strategies
Amine Amar, Radouane Elkhchine, Youness Laaroussi, Zine elabidine Guennoun, Radouane El-Khchine, Charaf Bensouda
- Synthesizing CRISP-DM and Quality Management: A Data Mining Approach for Production Processes
Franziska Schäfer, Christian Zeiselmaier, Jonas Becker, Heiner Otten
- Numerical analysis of a fractured railway freight wheelset
Abdelmajid Hamdaoui

Room 4 / Session 12

Digital Development and Security
Chairs : Robert Davison & Hamid El Ghazi

- Reframing Security in Contemporary Software Development Life Cycle
Pieter Frijns, Robert E. Bierwolf, Tom Zijderhand
- Experimental Study: Influence of Feature Extraction in Multiclass Object Classification **Bouchra Honnit, Mohamed Nabil Saidi, Ahmed Tamtaoui**
- Students' computers safety behaviors, under effects of cognition and socialization: when gender and job experience influence information security behaviors
Jean-Francois Berthevas
- A Report automation program to adjust contract amount due to price fluctuation **Sang-Young Cho**

14.45 PM : Coffee break

15.00 PM : Parallel sessions

Room 1 / Session 13

Supply Chain Engineering
Chairs : **Armand Baboli**
& **Badr Abou El Majd**

- Target stock levels (TSL) and fill rate optimization for worldwide spare parts inventory management : A case study in business aircraft industry **Maliheh Vaez-Alaei, Nasim Zandi Atashbar, Armand Baboli, Romy Tonadre**
- Optimization of PLA parts manufactured by the Fused Deposition Modeling Technology
Aissa Ouballouch, Larbi Lasri, Rachid El alajji, Issam Ouahmane, Mohammed Sallaou, Said Ettaqi
- Multi-Level Assignment Problem For A Conflict-Free Timetabling **Choib Essakhri, Ilham Kissani**
- Mobility Management and Radio Resource Management: Scheduling Schemes Automatic Selection for Handover Mechanism
Ismail Angri, Abdellah Najid, Mahfoudi Mohammed

Room 3 / Session 15

KM and Innovation
Chairs : **Jean-Francois Berthevas**
& **Zineb El Akkaoui**

- Analysis of Japanese Multinational firms' Research and Development Activities in Singapore **Akiko Sato**
- Customer knowledge management and firm's scalability in technological firms : a systematic literature review
Bisan Abdulkader, Valentina Cillo, Claudio Roveda, Manlio Del Giudice
- IT for Innovation and the Logic of Knowledge Extension
Adel Aloui, Gilbert Giacomoni
- How to Manage the Conundrum of Openness in Open Innovation Projects **Mehdi Bagherzadeh**

Room 2 / Session 14

Digital Health Management
Chairs : **Esmail Ahouzi**
& **Robert Bierwolf**

- SMA for planning and scheduling of the surgical operations under uncertainties using Taboo Search
Salma Elkhattabi, Abdelahad Chraibi, Rachid Benabbou
- A new architecture of collaborative vehicles for monitoring fleet health in real-time
Issam Mallouk, Badr Abou El Majd, Hassan El Ghazi
- A framework for Security analytics of WBAN/WLAN healthcare network **Khalil Boukri, Najib Naja**

Room 4 / Session 16

Research in progress
in Digital Innovation
Chair : **Abdelati Hakmaoui**

- Supply chain management: Aspects of social capital and impact on performance
Charnoubi Jaouad
- XBRL adoption in Morocco: a stakeholder perception
Mohssen El Ansary, Mourad Oubrich
- Digital entrepreneurship: literature review and new definition **Wassim Bensaid, Hassan Azdimousa**
- Applying data mining to telecom churn management from mobile phone industry in Morocco
Ahmed Kensi

17.30 PM : End of Parallel Sessions

20 :00 PM : Gala diner

November 23, 2018

		Workshop session
9.00 AM	Workshop 1	Big data analytics Scott Cunningham Associate Professor, Delft University of Technology, Netherlands Chair : Robert Bierwolf
10.00 AM	Coffee break	
10.30 AM	Workshop 2	Knowledge Management Valentina Cillo Research Fellow at Link Campus University, Italy Chair : Manlio Del Giudice
11.30 AM		Best Paper Award, Certificate of Participation and Closing
12.00 AM	Lunch	
15.00 AM		Social Event (Marrakech Tour)