

**Doctoral Workshop on
Application of Artificial Intelligence in Manufacturing 4.0
11 - 12 June 2019, Nancy, France**



**UNIVERSITÉ
DE LORRAINE**



PROGRAMME

Location: AIPL, Faculty of Sciences and Technologies (FST)
(745 Rue du Jardin-Botanique, 54600 Villers-lès-Nancy)

TUESDAY 11 JUNE 2019			
08:30-09:00	WELCOME – Room 215		
9:00-10:30	<ul style="list-style-type: none"> - Presentation about of Lorraine university/ CRAN Lab (G.Millerioux) - Presentation of AIPL (M.Lombard) - Presentation about Tongji university and lab (L.Li) - Introduction to the workshop (B. lung and P.Do) 		
10:30-11:00	COFFEE BREAK/ EXCHANGE – Room 111		
11:00-12:30	<p style="text-align: center;"><i>Session T1 - Room 215 – chair: Phuc Do</i></p> <p>Robust production scheduling under perturbations - A stochastic DES based evaluation approach <i>Sara Himmiche</i></p> <p>Predicting the energy consumption of residential buildings for regional electricity supply-side and demand-side management <i>Cai Huiling</i></p> <p>A selective biogeography-based optimizer considering resource allocation for large-scale global optimization <i>Cui Meiji</i></p>		
12:30-14:00	LUNCH – Room 111		
14:00-15:30	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <p style="text-align: center;"><i>Session T2 - Room 215 - chair: Hervé Panetto</i></p> <p>Personalisation in Cyber-Physical-Social Systems <i>Bereket Ilma Yilma</i></p> <p>A trial of student self-sponsored Peer-to-Peer lending based on credit evaluation using big data analysis <i>Yujiao Hou</i></p> <p>Smart Process Assessment <i>Marcelo Romero Romero Aquino</i></p> </td> <td style="width: 50%; vertical-align: top;"> <p style="text-align: center;"><i>Session T3 - Room 110 - chair: Li Li</i></p> <p>Research of Temporal Data Mining and Prediction Analysis on Freight Train Braking System <i>Wenjing Liu</i></p> <p>Educational Barometer for Students: from Learning Process Improvement to System Adoption <i>Julie Bu Daher</i></p> <p>Cooperative Output Regulation of Heterogeneous Multi-agent Systems By Self-triggered <i>Juan Liu</i></p> </td> </tr> </table>	<p style="text-align: center;"><i>Session T2 - Room 215 - chair: Hervé Panetto</i></p> <p>Personalisation in Cyber-Physical-Social Systems <i>Bereket Ilma Yilma</i></p> <p>A trial of student self-sponsored Peer-to-Peer lending based on credit evaluation using big data analysis <i>Yujiao Hou</i></p> <p>Smart Process Assessment <i>Marcelo Romero Romero Aquino</i></p>	<p style="text-align: center;"><i>Session T3 - Room 110 - chair: Li Li</i></p> <p>Research of Temporal Data Mining and Prediction Analysis on Freight Train Braking System <i>Wenjing Liu</i></p> <p>Educational Barometer for Students: from Learning Process Improvement to System Adoption <i>Julie Bu Daher</i></p> <p>Cooperative Output Regulation of Heterogeneous Multi-agent Systems By Self-triggered <i>Juan Liu</i></p>
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WEDNESDAY 12 JUNE 2019

08:00-08:30	WELCOME – Room 111		
08:30-09:00	<p align="center"><i>Session W1 - Room 215 - chair: Phuc Do</i></p> <p>Keynote 1: Autonomous Intelligent Unmanned System (Pr. Li Li)</p>		
09:00-09:30	<p>Keynote 2: Artificial Intelligence ... an advanced technology for "Industry of the Future" ... where Human has an important role to play ! (Pr. Benoit lung)</p>		
09:30-10:30	<p align="center"><i>Session W2 - Room 215 - chair: Benoit lung</i></p> <p>Remaining useful life prediction in prognostics using improved recurrent neural networks <i>Xiaoxiao Zhao</i></p> <p>Reliability assessment of optoelectronic devices with accelerated degradation testing <i>Minh-Tuan Truong</i></p>	<p align="center"><i>Session W3 - Room 110 - chair: Yanmin Zhao</i></p> <p>Human-inspired algorithm for designing new Control system in the context of Factory of the future <i>Tsegay Tesfay Mezgebe</i></p> <p>15-Gas sensor array dynamic measurement uncertainty evaluation and optimization algorithm <i>Wenwen Zhang</i></p>	
10:30-11:00	COFFEE BREAK/ EXCHANGE – Room 111		
11:00-12:30	<p align="center"><i>Session W4 - Room 215 - chair: Phuc Do</i></p> <p>IOHMM for Diagnostic and Prognostic of Complex System <i>Kamrul Islam Shahin</i></p> <p>Support Vector Machine based Incremental Classification Algorithm Combing Domain Adaption <i>Junya Tang</i></p> <p>Dynamic grouping maintenance strategy for a geographically dispersed production system <i>Ho-Si-Hung Nguyen</i></p>	<p align="center"><i>Session W5 - Room 110 - chair: Li Li</i></p> <p>Contribution to the identification of dangerous situations and their detection through the analysis of drifts in production equipment. Application to an automated production line <i>Romain Duponnois</i></p> <p>Optimal H^∞ Control of Linear System: A Data-Driven Method <i>Xindi Wang</i></p> <p>Intelligent O&M in PV monitoring system Based on Two Unsupervised Baseline Models <i>Siya Yao</i></p>	
12:30-13:45	LUNCH – Room 111		
13:45-15:30	<p align="center">Room 215 Working on application of artificial intelligence in manufacturing 4.0</p>		
	<p align="center"><i>Room 110 - chair: Phuc Do</i></p> <p><u>Goup 1:</u> <i>Sara Himmiche,</i> <i>Wenjing Liu</i> <i>Duc-Hanh Dinh</i> <i>Yong Wang</i> <i>Dermi Oriane</i> <i>Xiaoxiao Zhao</i> <i>Kamrul Islam Shahin</i> <i>Xindi Wang</i></p>	<p align="center"><i>Room 215 - chair: Li Li</i></p> <p><u>Groupe2 :</u> <i>Cai Huiling</i> <i>Bereket Ilma Yilma</i> <i>Juan Liu</i> <i>Gangbin Liu</i> <i>Zhuang Liu</i> <i>Truong-Minh Tuan</i> <i>Tsegay Tesfay Mezgebe</i> <i>Junya Tang</i> <i>Siya Yao</i></p>	<p align="center"><i>Room 311 - chair: Benoit lung</i></p> <p><u>Goup 3:</u> <i>Cui Meiji</i> <i>Yujiao Hou</i> <i>Marcelo Romero Romero Aquino</i> <i>Julie Bu Daher</i> <i>Guang Mei</i> <i>Wenwen Zhang</i> <i>Ho-Si-Hung Nguyen</i> <i>Romain Duponnois</i></p>
15:30-16:00	COFFEE BREAK/EXCHANGE – Room 111		
16:00-17:00	<p align="center">Room 215:</p> <p>Short presentation of each working group</p>		
17:00-17:30	<ul style="list-style-type: none"> - Announcement for best presentation awards - Closing remarks & cocktail 		