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Technical Program for Wednesday May 22, 2013

IFAC TC 5.1 Meeting

Chair: Valckenaers, Paul (K. U. Leuven)

Opening Ceremony

Chair: Tsuzuki, Marcos de Sales Guerra (USP)

- WeCT1** **Biological Inspiration for Technological Innovation''''3**
09:15-10:05 Speaker: Francis Joseph Doyle III (The University of California Santa Barbara)
Chair: Pereira, Carlos Eduardo (UFRGS)
-

Improving the Spare Part Supply Chain by Intelligent Maintenance Systems

Chair: Pereira, Carlos Eduardo (UFRGS)

Co-Chair: Hellingrath, Bernd (Univ. of Muenster)

Organizers: Hellingrath, Bernd (Univ. of Muenster); Pereira, Carlos Eduardo (UFRGS)

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Leonardo; Carlos Solon, Soares Guimarães Junior (UFRGS)
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Multi-Agent Systems

Chair: Baboli, Armand (INSA-Lyon)

Co-Chair: Scrimieri, Daniele (Univ. of Nottingham)

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Chair: Tsuzuki, Marcos de Sales Guerra (USP)
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Chair: Sari, Zaki (Univ. of Tlemcen)

Co-Chair: Silva, José Reinaldo (USP)

Organizers: Sari, Zaki; Ghomri, Latéfa (Univ. of Tlemcen)

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ThAT1 **Predictive Manufacturing System**
08:00-08:50 Speaker: Jay Lee (University of Cincinnati)
Chair: Valckenaers, Paul (K. U. Leuven)

Intelligent Products, Information Vectors through the Life Cycle

Chair: Charpentier, Patrick (Univ. of Lorraine);
Co-Chair: Sallez, Yves (Univ. of Valenciennes); Organizers: Charpentier, Patrick;
Derigent, William (Univ. of Lorraine); Sallez, Yves (Univ. of Valenciennes);
Främling, Kary (Aalto Univ.)

ThBT1.1 **Standardized Communication between Intelligent Products for the IoT (I)**
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ThBT1.2 **Methods of Aggregation of Expert Opinions in the Framework of Intelligent Products (I)**
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ThBT1.3 **Towards Product Health Monitoring Throughout Its Life-Cycle (I)**
09:30-09:50 Krommenacker Nicolas, Nicolas; Charpentier, Patrick; Pena, Rodolfo (Univ. de Lorraine)

ThBT1.4 **Toward Adaptive Modelling & Simulation for IMS: The Adaptive Capability Maturity Model and Future Challenges (I)**
09:50-10:10 ElHaouzi, Bril, Hind; Thomas, André (Nancy Univ.); Charpentier, Patrick (Univ. of Lorraine)

Business Process Re-Engineering for Manufacturing

Chair: Miyagi, Paulo Eigi (USP)
Co-Chair: Ubertino Rosso, Jr., Roberto Silvio (UDESC)

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08:50-09:10 Bevilacqua, Maurizio; Ciarapica, Filippo Emanuele; Mazzuto, Giovanni; Paciarotti, Claudia (Univ. Pol. delle Marche)

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ThBT2.3 **Advanced Planning and Scheduling Systems Based on Time Windows and Constraint Programming**
09:30-09:50 Pessoa, Marcosiris Amorim de Oliveira (USP); Estombelo Montesco, Richard A. (UFS); Junqueira, Fabrício; Santos Filho, Diolino José; Miyagi, Paulo Eigi (USP)

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Cyber Physical Systems in Production Systems

Chair: Riedl, Matthias (ifake.V. Magdeburg)
Co-Chair: Diedrich, Christian (Univ. Magdeburg)
Organizers: Diedrich, Christian (Univ. Magdeburg); Riedl, Matthias (ifake. V. Magdeburg)

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Chair: Ubertino Rosso, Jr., Roberto Silvio (UDESC)

Co-Chair: Tsuzuki, Marcos de Sales Guerra (USP)

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Chair: Silva, José Reinaldo (USP)

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Chair: Cavalieri, Sergio (Univ. of Bergamo)

Co-Chair: Porcelli, Isabella (Univ. of Florence)

Organizers: Rapaccini, Mario (Univ. degli Studi di Firenze); Pereira, Carlos Eduardo (UFRGS); Cavalieri, Sergio (Univ. of Bergamo); Hvolby, Hans-Henrik (Centre for Logistics)

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Chair: Martinez, Claude (Univ. de Nantes)

Co-Chair: Miyagi, Paulo Eigi (USP)

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Intelligent Product in Manufacturing

Chair: Främling, Kary (Aalto Univ.)

Co-Chair: Derigent, William (Univ. of Lorraine)

Organizers: Charpentier, Patrick; Derigent, William (Univ. of Lorraine); Sallez, Yves (Univ. of Valenciennes); Främling, Kary (Aalto Univ.)

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Technical Program for Friday May 24, 2013

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Co-Chair: Tsuzuki, Marcos de Sales Guerra (USP)

Cutting and Packing Problems

Chair: Tsuzuki, Marcos de Sales Guerra (USP)
Co-Chair: Gomes, A. Miguel (Univ. do Porto)
Organizers: Tsuzuki, Marcos de Sales Guerra; Martins, Thiago de Castro (USP);
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Speaker: Cláudio Pinhanez (IBM Brazil)
Chair: Silva, José Reinaldo (USP)

Production Planning

Chair: de Araujo, Silvio (UNESP)
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Chair: Martins, Thiago de Castro (USP)

Co-Chair: Maruyama, Newton (USP)

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Speaker: Dr. Karel Brans (Materialise NV)

Chair: Valckenaers, Paul (K.U.Leuven)

Panel Discussion: New Trends in Manufacturing: Self-X, E-Services, Etc-Myths and Realities

José Barata (Universidade Nova de Lisboa); Christoph Hannisch (FESTO Research); Shimon Y. Nof (Purdue University); Jay Lee (University of Cincinnati); Dr. Cláudio Pinhanez (IBM Brazil); Detlef Zuehlke (German Research Center for Artificial Intelligence)

Chair: Pereira, Carlos Eduardo (UFRGS)

Closing Ceremony

Chair: Tsuzuki, Marcos de Sales Guerra (USP)

Co-Chair: Silva, José Reinaldo (USP)