



**12th IFAC Symposium
on Information Control Problems
in Manufacturing**

Information control:
a complex challenge
for the 21st century

A stylized world map in blue and red tones serves as a background for the main title.

incom 2006

**and associated industrial meetings:
EMM'2006, BPM'2006, JT'2006**

17/18/19 May

Preliminary Program

Saint-Etienne France

www.emse.fr/incom06



Scientific sponsors

International Federation of Automatic Control (IFAC)

_Main sponsor: IFAC Technical Committee 5.1 on Manufacturing Plant Control

_Co-Sponsors:

- TC 1.3 on Discrete Event Dynamic Systems
- TC 2.4 on Optimal Control
- TC 3.3 on Computers and Telematics
- TC 4.1 on Components and Instruments
- TC 4.2 on Mechatronic Systems
- TC 4.4 on Cost Oriented Automation
- TC 4.5 on Human Machine Systems
- TC 5.2 on Manufacturing Modelling for Management and Control
- TC 5.3 on Enterprise Integration and Networking
- TC 5.4 on Large Scale Complex Systems
- TC 9.2 on Social Impact of Automation

International Federation for Information Processing (IFIP)

_IFIP Technical Committees:

- TC 5 on Computer Applications in Technology
- TC 7 on System Modelling and Optimization
 - WG 5.3, Computer Aided Manufacturing
 - WG 5.5, Cooperation Infrastructure for Virtual Enterprises and electronic Business
 - WG 5.7, Integration in Production Management
 - WG 5.12, Architectures for Enterprise Integration
- WG 7.4, Discrete Optimization

International Federation of Operational Research Societies (IFORS)

- European Association of Operational Research Societies (EURO)
- French Society of Operational Research (ROADEF)

Institute of Electrical and Electronics Engineers (IEEE)

- IEEE Robotics and Automation Society
- IEEE Industrial Electronics Society
- IEEE Section France

Intelligent Manufacturing Systems (IMS)

- IMS World-Wide
- European IMS-NOE
- IMS Project PROMISE

Other scientific sponsors:

- European Network of Excellence for Innovative Production Machines and Systems (I*PROMS)
- European Network of Excellence for Interoperability Research for Networked Enterprises Applications and Software (INTEROP)
- European Co-ordination action "European Virtual Institute on Collaborative Demand & Supply Network" (CODES.NET)
- International Institute for Innovation, Industrial Engineering and Entrepreneurship (I4e2)
- European INTAS project "Scheduling for modern manufacturing, logistics and supply chains"
- Société de l'Electricité, de l'Electronique, et des Technologies de l'Information et de la Communication (SEE)
- GDR MACS of the CNRS (French National Council for Scientific Research)
- Club des Enseignants et des chercheurs en Electronique, Electrotechnique et Automatique (EEA)

INCOMings: Symposium Presentation



We are very pleased to present the preliminary program of the 12th Triennial IFAC Symposium on Information Control Problems in Manufacturing (INCOM06).

INCOM's philosophy is simple: put industrial problems in the forefront and invite all possible players in Automatic Control, Computer Science, Management Science, Operational Research and Industrial Engineering, to regard and propose solutions. This approach, which smashes the barriers between disciplines, will make INCOM06 the major scientific and industrial event in Manufacturing sciences this year.

Once again this event is co-sponsored by other well known Scientific Organizations as IEEE, IFIP, IFORS, and IMS. The support of such diverse and prestigious international associations is an indication of a bright future. An exceptional International Program Committee (IPC) has been formed with 80 members from 33 countries. Twelve international journals are associated with the symposium for post-conference publications. This practically guaranties a top level event and a greater distribution of our results throughout the world.

Approximately 600 papers have been submitted to IPC. For scientific selection, the members of IPC and more than 700 additional referees were needed to accomplish the task of correctly evaluating the articles. About 2000 reviews were made. Everyone worked hard to insure that the process was highly selective and professional, a hearty thank you to all, especially the Chair of IPC: Professor Gérard Morel.

INCOM06 will offer the incomparable experience of listening and exchanging ideas with leaders in their fields, and even establish collaborative projects that span the Globe. We invite you to profit from all the opportunities presented at the Symposium: keynote speeches, oral and poster sessions, related industrial workshops, and last but not least industrial exhibitions of innovative and state of the art solutions. Hope to see in Saint Etienne this May.

Pr. Alexandre Dolgui
Director of Division G2I
General Scientific Chair INCOM06



Bienvenue ! Hosting the INCOM'2006 symposium is a real pleasure for the Ecole Nationale Supérieure des Mines de Saint Etienne and especially for its Division for Industrial Engineering and Computer Sciences (G2I). In this 190th anniversary year of our school, we would like to offer you a spectacular symposium as well as a very pleasant stay in St Etienne.

The goal of INCOM'06 is to create an effective bridge between research and industry. Our target is to provide industrial as well as academic leaders with a stimulating occasion to initiate fruitful relationships and ambitious projects. More than 350 industrial participants are expected on site. A lot of industrial papers are included in INCOM'06 sessions, but more importantly, we have a wonderful opportunity, in that there are 3 business related meetings occurring in parallel with INCOM: EMM'2006, BPM'2006, JT'2006. The industrial and scientific exhibition will also offer a wonderful opportunity to explore and compare the latest innovations on IT applications as they relate to manufacturing systems.

INCOM'06 is the result of an intensive collaboration with all of the international community in manufacturing sciences. Many thanks to all the participants who have donated their time and efforts to ensure the success of our program. Let us not forget an outstanding support of all the international and French scientific sponsors, as well as the unshakable contributions of our various financial and institutional partners. The quality of the program offered today would not have been possible without your efforts !

We hope you will appreciate the social program. After a welcoming cocktail on May 16th, we will travel back in time to the Middle Ages to experience a traditional banquet (Château de Monrond les Bains, May 17th). Returning to the present, we will celebrate on May 18th the 190th anniversary of the Ecole des Mines by a concert given by a talented pianist: Evgeni Koroliov. We hope you will really enjoy your time with us and leave with agreeable souvenirs of Saint Etienne.

Dr. Xavier Boucher
National Organizing Committee Chair

CONTENTS

INCOMings: Symposium Presentation	1
CONTENTS.....	2
CHAIRS AND COMMITTEES.....	3
OVERVIEW.....	5
KEYNOTE SPEAKERS.....	6
INCOM'2006 TRACKS.....	7
Real Time And Networked Embedded Systems.....	7
Robotics And Factory Of The Future	8
Dependable Control Of Discrete-Event Systems	8
Discrete Event Systems And Supervisory Control	9
Holonic And Multi-Agent Technologies For Industrial Systems	9
Reconfigurable Manufacturing Systems.....	10
Networked Enterprise Control System Integration And Interoperability.....	10
Integration And Information In Manufacturing	11
Integrated Design Of Product And Manufacturing Process	12
Intelligent And Collaborative Maintenance In Manufacturing.....	13
Advanced Manufacturing Systems.....	13
Models For Competence And Knowledge Management.....	14
Integrated Engineering In Industry	14
Design Of Production Systems.....	15
Scheduling For Modern Manufacturing, Logistics And Supply Chains.....	16
Supply Networks Design And Management.....	17
Production And Logistics.....	18
Production Planning And Inventory Control.....	19
Transportation And Logistics	19
Location And Dynamic Pricing	20
Novel Models And Approaches For Semiconductor Manufacturing.....	20
Special Session.....	21
Metaheuristics And Soft Computing In Industrial Applications.....	21
Simulation In Industrial Engineering.....	22
Special Event: Innovative Engineering Techniques In Healthcare Delivery.....	22
Industrial Case Studies And Discussion Papers.....	23
Poster Presentations	24
NOTES.....	26
REVIEWERS	27
INDUSTRIAL MEETINGS ASSOCIATED WITH INCOM 2006.....	28
BPM'2006 - Business Process Management: From Strategy To Operation.....	29
JT'2006 - An Efficient And Scalable Information System: Architecture And Governance.....	30
EMM'2006 - From Mechanic To Mechatronics, Risk Or Opportunity For Industry ? (1/2)	31
EMM'2006 - From Mechanic To Mechatronics, Risk Or Opportunity For Industry ? (2/2)	32

Acknowledgement: C. Yukna, help in editing.

CHAIRS AND COMMITTEES

Conference chairs:

Honorary President:	Robert GERMINET Director of the ENSM.SE, France
General Scientific Chair:	Alexandre DOLGUI Director of the Division for Industrial Engineering and Computer Sciences of the ENSM.SE, France

International Program Committee (IPC):

IPC Chair:	G�rard MOREL Universit� Henri Poincar�, France
IPC Scientific Co-Chair:	Shimon Y. NOF Purdue University, USA
IPC Industrial Co-Chair:	Timothy L. JOHNSON General Electric, USA

Members of the IPC:

Pedro ALBERTOS Universidad Politecnica de Valencia, Spain	Yves CRAMA Universit� de Li�ge, Belgium	R�my GLARDON EPFL, Switzerland
Abdelhakim ARTIBA ETS - Universit� du Qu�bec, Canada	St�phane DAUZERE-PERES ENSM.SE, France	Ken GOLDBERG University of California at Berkeley, USA
Ronald G. ASKIN University of Arizona, USA	Alain DELCHAMBRE Universit� Libre de Bruxelles, Belgium	Bernard GRABOT ENI de Tarbes, France
Zbigniew A. BANASZAK Technical University of Koszalin, Poland	Heinz-H. ERBE Technische Universit�t Berlin, Germany	Peter P. GROUMPOS University of Patras, Greece
Miryam BARAD Tel Aviv University, Israel	Erdal EREL Bilkent University, Turkey	Robert W. GRUBBSTR�M Link�ping Institute of Technology, Sweden
John J. BARTHOLDI, III Georgia Institute of Technology, USA	Duncan McFARLANE University of Cambridge, United Kingdom	Jatinder N. D. GUPTA University of Alabama in Huntsville, USA
Mireille BAYART Polytech-Lille, France	Jean-Marc FAURE ENS de Cachan, France	Jean-Claude HENNET Universit� d'Angers, France
Peter BERTOK RMIT University, Australia	Florin-Gheorghe FILIP Romanian Academy, Romania	Sheue-Ling HWANG National Tsing-Hua University, Taiwan
Jean-Paul BOURRIERES Universit� Bordeaux 1, France	Gerd FINKE Universit� Joseph Fourier, France	Beno�t IUNG Universit� Henri Poincar�, France
Glen BRIGHT University of KwaZulu Natal, South Africa	Peter FLEMING University of Sheffield, United Kingdom	Zhibin JIANG Shanghai Jiao Tong University, China
Luis M. CAMARINHA-MATOS Universidade Nova de Lisboa, Portugal	Adina Magda FLOREA "Politehnica" Univ. of Bucharest, Romania	Toshiya KAIHARA Kobe University, Japan
Sergio CAVALIERI Universit� degli Studi di Bergamo, Italy	Georg FREY University of Kaiserslautern, Germany	Anatolii F. KLEIMENOV Russian Academy of Sciences, Russia
David CHEN Universit� Bordeaux 1, France	Susumu FUJII Kobe University, Japan	Vladimir V. KULBA Russian Academy of Sciences, Russia
Lawrence CORBETT Victoria University, New Zealand	Stanley B. GERSHWIN Massachusetts Institute of Technology, USA	Andrew KUSIAK University of Iowa, USA

Pierre LADET

INP de Grenoble, France

Jay LEE

University of Cincinnati, USA

Genrikh M. LEVINNational Academy of Sciences,
Belarus**Alain MARTEL**

Université Laval, Canada

László MONOSTORIHungarian Academy of Sciences,
Hungary**Edward NAWARECKI**AGH Univ. of Science and Tech.,
Poland**Andrew Y.C. NEE**National University of Singapore,
Singapore**Christopher O'BRIEN**Nottingham University, United
Kingdom**Hervé PANETTO**

Université Henri Poincaré, France

Anatoly PASHKEVICH

University of Informatics, Belarus

Carlos E. PEREIRA

UFRGS, Brazil

Joao J. PINTO FERREIRA

INESC Porto, Portugal

Jean-Marie PROTH

INRIA, France

Antonio RUANO

Universidade do Algarve, Portugal

Hubert ROTH

University of Siegen, Germany

Subhash SARIN

Virginia Tech, USA

Alexander SMIRNOVRussian Academy of Sciences,
Russia**Suresh SETHI**

University of Texas at Dallas, USA

Johan STAHREChalmers University of Technology,
Sweden**Marcel STAROSWIECKI**

Université Lille I, France

Marco TAISCH

Politecnico di Milano, Italy

Vince THOMSON

McGill University, Canada

Paul VALCKENAERSKatholieke Universiteit Leuven,
Belgium**François VERNADAT**European Commission,
Luxembourg**Agostino VILLA**

Politecnico di Torino, Italy

Chengen WANG

Northeast University, China

Larry WHITMAN

Wichita State University, USA

David J. WILLIAMSLoughborough University, United
Kingdom**Hans WORTMANN**Tech. Univ. Eindhoven, The
Netherlands**Xiaolan XIE**

ENSM.SE, France

Oleg ZAIKINTechnical University of Szczecin,
Poland**Janan ZAYTOON**

URCA, France

Marek ZAREMBA

Université du Québec, Canada

Detlef ZUEHLKEKaiserslautern Univ. of Tech.,
Germany**National Organizing Committee (NOC):****Organizing Committee Chair:****Xavier BOUCHER**

ENSM.SE, France

Industrial Co-Chair:**Robert RONCHI**

ST Microelectronics, France

Members of the National Organizing Committee:

Organized at the Ecole Nationale Supérieure des Mines de Saint Etienne, by the Industrial Engineering and Computer Sciences Division in collaboration with the Microelectronics Division and the Engineering and Health Division.

Philippe BEAUNE, Xavier BOUCHER, Michel BEIGBEDER, Xavier BODDAERT, Olivier BOISSIER, Patrick BURLAT, Jean-Pierre CAMPAGNE, Jean-François CHAMBON, Annie CORBEL-BOURGEAT, Xavier DELORME, Marie-Agnès GIRARD, Jean-Jacques GIRARDOT, Frédéric GRIMAUD, Hervé GUEGEN, Philippe JAILLON, Roland JEGOU, Patrick LYONNET, Eric MARCON, Hélène MARIAN, Mihaela MATHIEU, Yazid MATI, Frédérique MAYER, Antoine PAUZE, Marc ROELEN, Xavier SERPAGGI, Grégory SIX, Rosario TOSCANO, Laurent VERCOUTER, Lucien VINCENT.

Contact:

Xavier Boucher

INCOM'2006 secretariat**Ecole Nationale Supérieure des Mines de Saint-Etienne**

158, cours Fauriel - 42023 Saint Etienne - Cedex 2 - France

Phone: +33 (0)4 77 42 01 65 / Fax: +33 (0)4 77 42 66 66

E-mail: incom06@emse.fr<http://www.emse.fr/incom06>

OVERVIEW

INCOM'2006 And ASSOCIATED INDUSTRIAL MEETINGS

	MAY 17th	MAY 18th	MAY 18th	MAY 18th	MAY 19th	MAY 19th	MAY 19th
	INCOM'2006	INCOM'2006	BPM'2006	EMM'2006	INCOM'2006	JT'2006	EMM'2006
08h00 -				Welcome			
09h00 -	Welcome & Refreshments		Welcome	Introduction	Keynote speech	Welcome	Session #1
10h00 -	opening Ceremony	Keynote speech	Session #1	Session #1	Keynote speech	Session #1	Session #2
11h00 -	Paper Presentations [WED-1]	Coffee Break	Roundtable		Coffee Break		
12h00 -		Poster & Paper Presentations [THU-1]	Coffee Break	Coffee Break	Poster & Paper Presentations [FRI-1]	Coffee Break	Coffee Break
13h00 -	Lunch	Lunch	Session #2	Session #2	Lunch	Session #2	Session #3
14h00 -		Posters / Expo	Expo Visit	Expo Visit	Posters / Expo	Roundtable	
15h00 -	Paper Presentations [WED-2]	Keynote speech	Session #3	Session #3	Paper Presentations [FRI-2]	Expo Visit	Expo Visit
16h00 -	Coffee Break	Keynote speech	PAUSE CAFE	Session #3		Session #3	Session #4
17h00 -	Keynote speech	Coffee Break	Session #4	Coffee Break	Coffee Break	Session #4	Roundtable
18h00 -	Keynote speech	Paper Presentations [THU-2]	Expo Visit	Roundtable	Closing Ceremony		
	BANQUET	CONCERT AT THE ESPLANADE					

KEYNOTE SPEAKERS



DATA MINING IN DESIGN OF PRODUCTS AND PRODUCTION SYSTEMS

Pr. Andrew Kusiak, University of Iowa, USA.

Andrew Kusiak is a Professor of Mechanical and Industrial Engineering and the Director of the Intelligent Systems Laboratory at the University of Iowa, Iowa City, Iowa. He is interested in theory and applications of computational intelligence, data mining, and optimization in product development, manufacturing, healthcare, and the pharmaceutical industry. Dr. Kusiak has served on editorial boards of over twenty journals, published books, and edited book series. Dr. Kusiak is the Editor-in-Chief of the Journal of Intelligent Manufacturing.



REINFORCING INDUSTRIAL DISTRICTS: NEED FOR A STRUCTURED APPROACH

Pr. Agostino Villa, Politecnico di Torino, Italy.

Agostino Villa is a member of the Department of Production Systems and Business Economics of Politecnico di Torino. He is the Chair of the Executive Committee of the International Foundation for Production Research (IFPR), Editor for Robotics and Computer Integrated Manufacturing journal (Elsevier) and the Coordinator of the European Coordination Action on Collaborative Demand and Supply Networks (CODES.NET).



INTEROPERABLE ENTERPRISE SYSTEMS: ARCHITECTURES AND METHODS

Pr. François B. Vernadat, European Commission, Luxembourg.

François B. Vernadat is an administrator at the European Commission in the unit for Interoperability, Architecture and Methods of DG DIGIT. He has researched in enterprise modeling and integration as well as information systems for over 20 years in Canada and France. He is the author of 7 books including Enterprise Modeling and Integration: Principles and Applications (Chapman & Hall, 1996), and an associate editor of Int. J. of Production Research, Int. J. of Computer Integrated Manufacturing and Computers in Industry.



HOW DO QUANTITY AND QUALITY REALLY INTERACT? PRECISE MODELS INSTEAD OF STRONG OPINIONS

Dr. Stanley B. Gershwin, Massachusetts Institute of Technology, USA.

Stanley B. Gershwin is a Senior Research Scientist at the MIT Department of Mechanical Engineering. Dr. Gershwin is the author of Manufacturing Systems Engineering. He has been an Associate Editor of several international journals, including the International Journal of Production Research, Operations Research, IEEE Transactions on Automatic Control. He is a Fellow of the IEEE.



ROBOTICS, AGENTS, AND E-WORK: THE EMERGING FUTURE OF PRODUCTION

Pr. Shimon Y. Nof, Purdue University, USA.

Shimon Y. Nof is the Director of the NSF-industry supported PRISM Center (Production, Robotics and Integration Software for Manufacturing & Management), Fellow of IIE, Secretary General of International Foundation for Production Research (IFPR), Chair of IFAC Coordinating Committee "Manufacturing and Logistics Systems". The authors of several books, for example: Handbook of Industrial Robotics (Wiley, 1999), Industrial Assembly (Chapman & Hall, 1997), Member of Editorial Board of numerous International Journals.



DISTRIBUTED REAL-TIME EMBEDDED SYSTEMS: RECENT ADVANCES, FUTURE TRENDS AND THEIR IMPACT ON MANUFACTURING PLANT

Pr. Carlos Eduardo Pereira, Federal University of Rio Grande do Sul, Brazil.

Carlos E. Pereira is an Associate Professor of the Electrical Engineering Department at the Federal University of Rio Grande do Sul in Brazil, where he has served as Dean of the EE Department from 96 to 98 and Coordinator for the Graduate Research Program from 2002 to 2004. His research focuses on methodologies and tool support for the development of distributed embedded real-time systems. Carlos E. Pereira is the Chair of the IFAC Technical Committee on Manufacturing Plant Control (TC 5.1). He is Associate Editor of the journal "Control Engineering Practice".



SCHEDULING: NEW TRENDS IN INDUSTRIAL ENVIRONMENT

Dr. Jean-Marie Proth, Consultant, France.

Jean-Marie Proth received a Ph. D. in Computer Sciences from the University of Nancy (France) and a Ph.D. in Management from the University of Paris 9-Dauphine. He was Professor at the European Institute for Advanced Studies in Management (Brussels) and Research Director at INRIA, the French National Institute for Research in Computer Sciences and Automation. His research activities include Petri nets, scheduling, operation research and supply chains. He authored and co-authored 17 books and more than 400 papers on these subjects in France and the U.S. He also conducted 45 contracts (Industry, Defence and C.E.E).

INCOM'2006 TRACKS

The success of the 12th edition of INCOM wouldn't have been possible without a bringing together of a great number of the international scientific community. We sincerely thank all the talented organizers of Special Tracks and Sessions at INCOM'2006:

K. H. Adjallah, L. Almeida, R. G. Askin, Ph. Beaune, M. Beigbeder, A. Bernard, B. Berthomieu, O. Boissier, T. Borangiu, N. Brahimi, F. W. Bruns, P. Burlat, C. Cardeira, P. Castagna, M. Chabrol, A. W. Colombo, Y. Crama, M. Dassiti, S. Dauzère-Pérès, F. Dexter, C. Diedrich, A. Dolgui, R. Dupas, A. Elmoudni, E. Eldukhri, H.-H. Erbe, C. Esswein, G. Fadel, J.-M. Faure, R. Fildes, G. Finke, Y. Frein, G. Frey, A. Gharbi, A. Giua, L. Gomes, G. Goncalves, B. Grabot, F. Grimaud, R. Harrison, J.-Y. Hascoet, J.-C. Hennet, J. Hodolic, H. Ismail, A. Jaszekiewicz, Z. Jiang, D. Karagianis, O. Kaynak, D. Kiritsis, P. Klemm, A. Kolokolov, P. Kopacek, V. Kulba, C. Labbé, S. Lambert, A. L'Anton, J. Lee, Y. Levin, P. Lutz, V. Majstorovic, E. Marcon, V. Marík, P. Maropoulos, J. L. Martinez-Lastra, D. McFarlane, J. McGill, Y. Merkurjev, J. Miemczyk, P. Moreaux, A. Moukrim, G. Mummolo, N. Najid, M. Nediak, S. Newman, J. Y. Nie, C. O'Brien, E. C. Oliveira, A. Pamanes, H. Panetto, Y. Papadopoulos, A. Pashkevich, M. Pashkevich, B. Pavlov, C. E. Pereira, D. Pham, F. Plastria, J.-M. Proth, J. Renaud, N. Rezg, D. Riopel, Y. Sallez, K. Sandkuhl, E. Sanlaville, S. Sarin, A. Schöbel, A. Scholl, H. Sharifi, P. Siarry, M. Silva, A. Smirnov, F. Sourd, A. M. Stanescu, V. Strusevich, K. Szafnicki, J. Szytko, E. Taillard, E.-G. Talbi, J. Teghem, K.-D. Thoben, J.-P. Thomesse, K. Y. Toumi, S. Vajna, P. Valckenaers, F. Van Houten, A. Villa, Y. Wardi, A. Weckenmann, Ph. Wenger, F. Werner, L. Whitman, M. Wollschlaeger, X. Xie, X. Xu, O. Zaikin, N. Zerhouni

Their motivation, time and effort given to INCOM shows the vitality of our scientific community.

Real Time And Networked Embedded Systems

[WED-1] - Manufacturing Plant Networked Control

Event Driven Applications For Automation Area

(DE) Riedl M., Diedrich C., Naumann F., Matzekat I.

A Tolerant Temporal Validation Of Components Based Applications

(FR) Khalgui M., Rebeuf X., Simonot-Lion F.

Run-Time Reconfigurable Real-Time Operating System For Hybrid Execution Platforms

(DE) Goetz M., Rettberg A., Pereira C.E.

A Comparative Study Of Embedded Protocols For Safety-Critical Control Applications

(BR) Carvalho F.C., Pereira C.E., Ataide F.H., Wehrmeister M.A.

[WED-2] - Industrial Communication Protocols

Performance Analysis Of Industrial Ethernet Networks By Means Of Timed Model-Checking

(DE) Witsch D., Vogel-Heuser B., Faure J.-M., Marsal G.

Use Of Upper Bound Delay Estimate In Stability Analysis And Robust Control Compensation In Networked Control Systems

(FR) Georges J.-P., Vatanski N., Rondeau E., Jamsa-Jounela S.-L.

Using Dual Rate Switching Control In A Steer-By-Wire Application

(BR) Mauro M., Almeida L., Fuertes J.M.

An Ethernet Layer For Supporting Enhanced Real-Time Communication Services

(IT) Facchinetti T., Franchino G., Pedreiras P., Marau R.

[THU-1] - IT Issues In Manufacturing Plant Control

Sensor Informatics For Manufacturing

(US) Johnson T.L.

Information Security For Reconfigurable Manufacturing Systems Using Networked Embedded Controllers

(FI) Delamer I.M., Martinez Lastra J.L.

Flexible Information System For Life Cycle Support Of Heterogeneous Networks

(DE) Wollschlaeger M.

Anddr With Novel Gross Error Detection And Smart Tracking System

(CA) Laylabadi M.B., Taylor J.H.

Robotics And Factory Of The Future

[THU-2] - Industrial Robotics And Factory Automation

Kinematic Calibration Of Orthoglide-Type Mechanisms

(BY) Pashkevich A., Chablat D., Wenger P.

Modular Sensor System For Flexi-Picker And Multi-Axis Automated Machines

(ZA) Asif Shaik A., Bright G., Xu W.L.

Task Planner For A Cooperative Disassembly Robotic System

(ES) Diaz C., Puente S., Torres F.

Evolvable Assembly Systems: A Development Roadmap

(PT) Barata J., Santana P., Onori M.

[FRI-1] - Mobile Robots

Convergence Of Communication With Computing For A Remote Oriented Mobile Minirobot

(RO) Dobrescu R., Dobrescu M.

Decision Making And Image Processing In Robot Soccer - The Challenge Of Fira Mirobot

(DE) Jesse N.

A Cooperative Mobile Robots Architecture That Enables A Paralyzed Robot To Move

(FR) Simonin O., Grunder O.

Narosot - Nanotechnology In Robot Soccer

(AT) Kopacek P., Han M.-W., Putz B., Schierer E., Wuerzl M.

[FRI-2] - Artificial Intelligence In Robotics

Interactive Learning Of Scene-Robot Models Based On Ai Techniques

(RO) Borangiu T., Anton F., Tunaru S., Dogar A., Ivanescu N.

A Fuzzy Hybrid Singularity Avoidance For Underwater Vehicle-Manipulator Systems

(BR) Dos Santos C.H., Bittencourt G., Guenther R., De Pieri E.

Controlling A Platoon Of Vehicles With Distributed Collision Avoidance Capabilities

(IT) Ferrara A., Vecchio C.

Mathematical Modelling of Movement of Intelligent Transport Devices in Automated Warehouses

(PL) Kharchenko Y., Sobkowski S.

Dependable Control Of Discrete-Event Systems

[WED-1] - New Trends In Fault-Tree Analysis Of Automated Systems

Pandora: The Time Of Priority-And Gates

(GB) Walker M., Papadopoulos Y.

Obtaining Timed Properties Of Logic Controllers From Fault Tree Analysis

(FR) Barragan Santiago I., Roth M., Faure J.-M.

Application Of Evolutionary Algorithms To Solve The Safety-Costs Trade-Off Problem In Control System Design

(GB) Grunske L., Papadopoulos Y.

Increased efficiency in the quantitative evaluation of state event fault trees by combination of dspn and bdd based techniques

(DE) Förster M., Kaiser B.

[WED-2] - Improving DES Controllers Dependability Using Formal Specification And Verification

Verification Of Ethernet Protocols Via Parametric Composition Of Petri Net

(UA) Zaitsev D.A., Zaitsev I.D.

Dependability Analysis Of Networked Automation Systems By Probabilistic Delay Time Analysis

(DE) Greifeneder J., Frey G.

A New Modeling Approach For Mode Handling Of Flexible Manufacturing Systems

(FR) Hamani N., Dangoumau N., Craye E.

Formal Specification Of Safe Manufacturing Machines Using The B Method: Application To A Mechanical Press

(FR) Evrot D., Petin J.-F., Mery D.

[THU-1] - Improving DES Controllers Dependability Using Supervisory Control Theory

Formal Design Of Coordination Controllers For A Class Of Discrete-Event Manufacturing Systems

(MX) Sanchez A., Aranda-Bricaire E., Hernandez E.

Design Of Switching Supervisors For Reactive Class Discrete Event Systems

(FR) Kamach O., Pietrac L., Niel E.

Synthesis Of Supervised Controller Based On Boolean Constraints And Boolean Automata

(FR) Tajer A., Marange P., Gellot F., Carre-Menetrier V.

Panel Discussion: Cooperative Research Networks In Dependable Control Of Des

Faure J.-M., Frey G., Grunskel L., Johnson T., Niel E., Papadopoulos Y., Vogel-Heuser B.

Discrete Event Systems And Supervisory Control

[THU-2] - Supervisory Control In Discrete Event Systems

On Supervisory Control Of A Class Of Discrete Event Systems Using Petri Nets

(CN) Zhao M., Li Z.

Control Of Constrained (Max,Plus)-Linear Systems Minimizing Delays

(FR) Houssin L., Lahaye S., Boimond J.-L.

Iec 61131-3 Based Implementation Of Pn Supervisors

(IT) Basile F., Chiacchio P., Teta D.

Supervisory Control In Discrete Event Systems: Existence And Solutions

(FR) Achour Z., Rezg N., Xie X.

[FRI-1] - Discrete Event Systems And Applications

Development Of Oil Leakage Monitoring System For A Heavy Rolling Machine

(IN) Parikh P., Jafri T.A., Khurasia H.B.

Watchdog - A Practical Approach Of Fault Detection

(HU) Kovacs G., Kiss B., Niel E.

Modelling Of The Debts Collection Process For Service Companies

(FR) Deloffre A., Nait Abdallah R.

Geometrical Characterization Of Observability In Switched Linear Systems

(MX) Ramirez-Trevino A., Ruiz-Leon J., Martinez Barrientos C., Arias-Zambrano F.

[FRI-2] - Petri Nets And The E-Enterprise

High Level Petri Net Base Approach For Analysing Conceptual Objects For Production Systems Simulation

(FR) Tamani K., Boukezzoula R., Habchi G.

A Petri-Net Based Approach For The Reconfiguration Of Flexible Manufacturing Systems Using Optimization Techniques

(FR) Bourdeaud'huy T., Toguyeni A.

Performance Evaluation Of A Distributed Database- A Banking System Case Study

(FR) Sene M., Moreaux P., Haddad S.

State Feedback Control For The Manufacturing Systems Modeled By Continuous Petri Nets

(DZ) Kara R., Djennoune S., Loiseau. J.-J.

Holonic And Multi-Agent Technologies For Industrial Systems

[WED-1] - Holonic Manufacturing Systems

Towards The Assessment Of Holonic Manufacturing Systems

(CA) Brennan R.W.

Cooperating Planning And Manufacturing Execution Systems

(BE) Verstraete P., Valckenaers P.

Holonic Manufacturing Control Using Multi Ant Colony Systems

(DE) Zuelch G., Stock P.

A Holonic Approach For Manufacturing Control: An Industrial Application

(FR) Blanc P., Demongodin I., Castagna P.

[WED-2] - Multi-Agent Systems - I

Coalition Formation For Large Scale Multi-Agent Systems

(SK) Oravec V., Frankovic B.

Cooperation Between Business And Holonic Manufacturing Decision Systems

(FR) Pannequin R., Thomas A.

An Approach To Inter-Organizational Workflow Management In An Electronic Institution

(PT) Lopes Cardoso H., Leitao P., Oliveira E.

Multiagent Based Support For Electronic Contracting In Virtual Enterprises

(FR) Gateau B., Boissier O., Khadraoui D.

[THU-1] - Multi-Agent Systems - II

Modelling Collaborative Information Systems: The E-Enabled Supply Chain Case

(FR) Briffaut J.-P., Lallement P.

Auction-Based Agent-Oriented Process Control

(DE) Hussain T., Frey G.

Multi Criteria Decision Making For Supply Chain Partners: A Multi Agent Simulation Approach

(FR) Chehbi Gamoura S., Ouzrout Y., Bouras A.

Using Radio Frequency Identification In Agent-Based Control Systems For Industrial Applications

(CZ) Vrba P., Macurek F., Marik V.

[THU-2] - Multi-Agent Systems - III

Monitoring As A Means For Discovery Of Crises In Mas

(PL) Dobrowolski G., Kisiel-Dorohinicki M., Nawarecki E.

Cooperative Disruption Management In Industrial Systems: A Multiagent Approach

(FR) Tranvouez E., Ferrarini A., Espinasse B.

Modeling And Optimization Of City Traffic With The Agent Approach

(PL) Swida P., Kozlak J., Creput J.-C.

Agent-Based And Evolutionary Planning Techniques Supporting Crises Management In Transportation Systems

(PL) Drezewski R., Kisiel-Dorohinicki M., Kozlak J.

Reconfigurable Manufacturing Systems

[FRI-1] - Reconfigurable And Agile Manufacturing Systems

Reconfigurable Manufacturing System For Agile Manufacturing

(ZA) Xing B., Eganza J., Bright G., Potgieter J.

A Tool For Assessing Reconfigurability Of Distributed Manufacturing Systems

(GB) Farid A.M., McFarlane D.C.

Agile Manufacturing System With Autonomously Operated Square Arrayed Machining Cells

(JP) Fujii S., Kaihara T., Sashio K., Seki T.

A Framework For Validation Of Reconfigurable Manufacturing Systems

(FI) Lobov A., Popescu C., Martinez-Lastra J.L., Tuokko R.

[FRI-2] - Reconfigurable Manufacturing System Automation

A Real-Time Execution Model For Iec 61499 Based Control Applications

(AT) Smodic R., Zoitl A., Grabmair G., Strasser T.

Petri Net Model Reconfiguration Of Discrete Manufacturing Systems

(MD) Alcaraz-Mejia M., Lopez-Mellado E.

Distributed engineering of modular reconfigurable automation systems

(UK) Harrison R., Lee S.M., Ong M.H., West A.A.

Performance Measurement Of A Multiagent System In Java-Based Industrial Embedded Controllers

(FI) Lopez O., Martinez-lastra J.L.

Networked Enterprise Control System Integration And Interoperability

[WED-1] - Enterprise Systems Integration And Interoperability

A Product Oriented Approach For Enterprise Systems Synchronisation And Interoperability

(FR) Baina S., Panetto H., Morel G.

Interoperability Of Enterprises Network Holonic Control Via Hla

(FR) Ounnar F., Pujo P., Zahaf A., Giambiasi N.

Linking Interoperability And Risk Assessment: A Methodological Approach For Socio-Technical Systems

(FR) Aloui S., Chapurlat V., Penalva J.-M.

Real-Time, Cooperative Enterprises: Requirements And Solution Approaches

(HU) Monostori L., Vancza J., Kis T., Kadar B., Viharos Z.J.

[WED-2] - Reference Models And Architectures For Collaborative Networked Organizations

Information Exchange In A Cross-Disciplinary Supply Chain: Formal Strategy And Application

(GB) *Cutting-Decelle A.F., Das B.P., Young R.I.M., Case K., Bouchlaghem N.M., Anumba C.J.*

An Enterprise Model Of Interoperability

(US) *Whitman L.E., Santanu D., Panetto H.*

Collaborative Information System Design: From Process Model To Information System Model

(FR) *Touzi J., Benaben F., Pingaud H.*

A Methodology To Develop Interoperability Of Enterprise Applications

(FR) *Daclin N., Chen D., Vallespir B.*

[THU-1] - Enterprise Integration And Interoperability Issues

Enterprise Model For Integrating Process Control Into Cam System

(FR) *Bassetto S., Siadat A., Vernadat F., Martin P.*

An Ontology-Driven Data Mediation Framework For Enterprise Application Integration

(FR) *Izza S., Vincent L., Burlat P., Lebrun P., Solignac H.*

Towards A Framework For Integrating Risk And Business Process Management

(FR) *Sienou A., Karduck A., Pingaud H.*

Interoperability Problems In Supply Chains Context

(FR) *Blanc S., Ducq Y., Vallespir B.*

Integration And Information In Manufacturing

[THU-2] - Information Management In Enterprise

Service Oriented Organization For Cross-Enterprise Processes Supported By Distributed Transaction Monitoring

(FR) *Jaber M., Badr Y., Biennier F.*

A Framework Of Information And Knowledge Management For Product Design And Development A Text Mining Approach

(SG) *Liu Y., Lu W.F., Loh H.T.*

Toward A Unified Vision Of The Enterprise Informations

(FR) *Laniel F., Mathieu M., Girardot J.-J.*

Implementing information and communication technologies: the recipe for success

(NZ) *Howell B., Corbett L.M.*

[FRI-1] - Ontology-Based Information Management For Industrial Applications

Constructing An Enterprise Ontology For An Automotive Supplier

(SE) *Blomqvist E., Ohgren A.*

Ontology-Based Information Integration In Automotive Supply Chains

(RU) *Smirnov A., Levashova T., Shilov N.*

Towards Ontology-Based Requirements Management In Automotive Electronics

(SE) *Billig A., Sandkuhl K.*

Integrating Semantic Resources To Support Sme Knowledge Communities

(PT) *Silva M. M., L. Soares A., Simoes D.*

[FRI-2] - Industrial Applications

Development Of Computer Integrated Manufacturing And Management Systems

(PL) *Lewoc J.B., Izworski A., Skowronski S.*

Collaborative Distributed Framework For Sme Ecosystems: The Group-Buying Portal Use-Case

(FR) *Lorre J.-P., Carpentier M., Fabre O.*

Pattern Based Database Knowledge Extraction

(PL) *Kozik J., Zygmunt M.*

A Framework For Knowledge Management Of Instrumentation And Control Using A Cms With Ontology Extension

(FR) *Dourgnon-Hanoune A.*

Integrated Design Of Product And Manufacturing Process

[WED-1] - Information Systems For Product And Process Design

Case Studies In Model Integration

(FR) Bigand M., Bourey J.-P., Perry N., Mauchand M.

A Conceptual Framework For Product Lifecycle Modeling

(CN) Shu Q., Wang C.

Product Family Modelling, Attributes Rather Than Modules

(DK) Joergensen K.A.

Design And Project Management: Their Coordination On A Platform Of Interoperable Tools

(FR) Gutierrez Estrada C., Baron C., Duarte H., Esteve D.

[WED-2] - Collaborative Engineering Tools And Methods

A Tool For Analysing Collaborative Practices In Project Design

(FX) Merlo C., Pol G., Legardeur J., Jared G.

Management Of Evolution During Collaborative Design Process

(FR) Blanc S., Robin V., Ducq Y., Girard P.

Expert Knowledge Justification In Plc Models Applied To Flank Milling

(FR) Candlot A., Harik R.

Manufacturing Quality Information Supporting Concurrent Design Decisions

(FR) Wang K., Roucoules L., Matta N., Tong S., Eynard B.

[THU-1] - Decision Making For Better Sustainable Products And Processes

Methodology Of Outsourcing Design And Engineering Process

(JP) Sato S., Roser C., Kubota F., Nakano M.

Drawing Data Refining System According To Plant Product Life Cycle

(JP) Seki H., Tatehara K., Oomasa Y.

Designing A Decision Support System For Trucks Predictive Maintenance

(IT) Sorlini M., Zangiacomì A., Fornasiero R.

Evaluation Of A Solution In Interactive Aiding Design Process

(FR) Vareilles E., Aldanondo M., Gaborit P., Hadj-Hamou K.

[THU-2] - Integrated Design And Manufacturing Processes

Integrated Optimization For Weight, Performance And Cost Of Composite Structures

(FR) Hae Park C., Saouab A., Breard J., Han W.S., Vautrin A.

Preparation Features For Generation Of The Range And Cost Estimation Of Welding Joints

(TN) Chayoukhi S., Bouaziz Z., Zghal A.

Technical-And-Economical Aspects Of Innovation Activity

(RU) Volchkevich L.I.

Numerical Modelling Of Compression Moulding For Improvement Of Mechanical Properties

(FR) Kim M.S., Han W.S., Vautrin A., Lee W.I.

[FRI-1] - Total Integration Of CAX Processes

A Process Modelling Approach For Design Of Experiments Software

(DE) Weckenmann A., Brenner P.-F.

A New Software Platform For Step-Nc Manufacturing Application Development

(GB) Nassehi A., Allen R.D., Newman S.T.

The Certification Of Cam Output Toolpaths: A Necessary Improvement

(FR) Duc E., Pateloup V., Ray P.

Feature-Based Process Planning For Interoperable Step-Nc Manufacture

(GB) Liu R., Nassehi A., Allen R.D., Newman S.T.

[FRI-2] - PLM And Information Tracking Using Smart Embedded Systems

System Architecture For Closed-Loop Plm

(CH) Jun H.-B., Shin J.-H., Kiritsis D., Xirouchakis P.

Globally Unique Product Identifiers, Requirements And Solutions To Product Lifecycle Management

(FI) Framling K., Harrison M., Brusey J.

Enriching Product Information During The Product Lifecycle

(FI) Framling K., Rabe L.

Early Data Processing In Smart Item Environments Using Mobile Services

(DE) Anke J., Neugebauer M.

Intelligent And Collaborative Maintenance In Manufacturing

[THU-2] - Monitoring Strategies For Intelligent Predictive Maintenance

Information And Communication Technologies In Condition Monitoring And Maintenance - A Review
(SE) Campos J., Prakash O.

Inspection Strategy For Availability Improvement
(CA) Ait-Kadi D., Chelbi A.

Diagnosis Of Tool Wear With A Microcontroller
(FI) Jantunen E., Vaajoensuu E.

Diagnosis Tasks Scheduling Based On A Distributed Multiprocessors System
(US) Niang B., Adjallah K.H., Ndiaye P.A.

[FRI-1] - Collaboration And Optimization For Maintenance Decision Making

Maintenance Work Coordination In Electricity Distribution
(EE) Kangilaski T.

Production Line Simulation Using Stochastic Timed Petri-Net For Maintenance Scheduling
(US) Lei Y., Liu J., Ni J., Lee J.

Service Oriented Semantics In Industrial Operation And Maintenance Environment
(FI) Viinikkala M., Kuikka S.

Joint Quality Control And Preventive Maintenance Strategy For Imperfect Production Processes
(FR) Radhoui M., Rezg N., Chelbi A.

[FRI-2] - Reliability And Safety Of Industrial Systems

Structural-Technological Reserve And Its Use For Increasing Stability Of Manufacturing Systems
(PL) Kulba V., Pavlov B., Zaikin O.

Cp-Based Project Driven Manufacturing
(PL) Banaszak Z.A., Zaremba M.B., Muszynski W.

Reliability And Safety Of Restorable System For Maintenance Resources Planning
(PL) Jazwinski J., Szpytko J.

A Conceptual Structure For The Use Of Near-Misses Properties
(IT) Cavalieri S., Ghislandi W.M.

Advanced Manufacturing Systems

[WED-1] - Innovative Production Machines And Systems

Model-Based Machine Condition Monitoring With Web Access.
(GB) Victory J.L., Ebrahimi M.K.

A Neuro-Fuzzy Scheme For Process Control During Complex Curvature Friction Stir Welding
(ZA) Van Niekerk T.I., Hua T., Hattingh D.G.

Adaptive Knowledge-Based Action Selection Architecture For Multiple Mobile Robots
(GB) Pham D.T., Awadalla M.H., Eldukhri E.E.

Service-Oriented Architecture For Field Control Devices
(IT) Ferrarini L., Veber C., Schwab C., Tangermann M.

[WED-2] - Flexible Manufacturing Systems

A Simulation-Based Equipment Environment For Flexible Manufacturing Systems
(TW) Huang Y.-S.

On Just In Time Control Of Flexible Manufacturing Systems Via Dioid Algebra
(FR) Alsaba M., Boimond J.-L., Lahaye S.

Product-Driven Control In Manufacturing Systems Using Iec 61499 And Rfid Technology
(DE) Panjaitan S., Frey G.

Joint production and supply control in three levels flexible manufacturing systems
(CA) Hajji A., Gharbi A., Kenne J.P.

[THU-1] - New Trends And Challenges In Mechatronics

Experimental Study Of Collaborator In Human-Machine System
(JP) Ohtsuka H., Shibasato K., Kawaji S.

Modeling Of A New Sma Microactuator For Active Endoscopy Applications
(FR) Abadie J., Chaillet N., Lexcelent C.

Optimising The Control Parameters In A Digital Mass Flow Controller

(FR) Couturier P.

Robograpes: A Fully Automated Machine For Grafting Vine Cuttings

(IT) Mazzon S., Salvador E., Bortolussi G., Piccinin M., Zanatta G.

Models For Competence And Knowledge Management

[WED-1] - Modelling And Simulation Of Human Performance

Manpower Allocation And Shift Scheduling Using Human Performance Simulation

(HK) Lau H.Y.K., Woo S.O., Choi C.Y.

A Dynamic Model For The Behavior Of An Operator In A Company

(FR) Elkosantini S., Gien D.

Qualification-Based Manufacturing Planning Based On Computer-Supported Modelling And Simulation

(DE) Zuelch G., Becker M.

Considering Polyvalence When Minimizing Workload Fulfillment

(FR) Gruat La Forme F.-A., Botta-Genoulaz V., Campagne J.-P.

[WED-2] - Competence Modelling For Decision Support Systems

Advanced Decision Support Systems For Planning And Control Of Manufacturing Processes

(RO) Filip F.G.

Human Systems Engineering Instrumented By Modelling Techniques

(GB) Ajaefobi J.O., Weston R.H.

Products, Processes And Organization Architectures Modeling: From Strategic Expectations To Strategic Competencies

(FR) Harmel G., Bonjour E., Dulmet M.

Competence Management For Business Integration

(FR) Houe R., Grabot B., Geneste L.

[THU-1] - Knowledge Modelling For Value Chain Management

A Decision Support System For Recyclability Assessment: From Norms To Constraints

(FR) Houe R., Grabot B.

An Approach To Assess Knowledge Cruciality For Industrial Project

(FR) Saad I., Grundstein M., Rosenthal-Sabroux C.

Knowledge, Skills And Culture In Production: A Framework

(FR) Koenig J., Geiskopf F., Caillaud E., Sonntag M.

Competence Based Supply Value Chain Effectiveness

(TR) Kayakutlu G., Buyukozkan G.

Integrated Engineering In Industry

[THU-2] - Mixed Reality A Tool For Cost Effective Collaborative Engineering

Energy Interfaces For Mixed Reality

(DE) Yoo Y.-H., Bruns W.

Distributed Workspaces

(DE) Erbe H.-H.

The Aero-Cave Extension For Mixed Reality Collaboration

(DE) Pratsch D.

Mixed Reality For Teleoperation Of Multiple Mobile Robots In Search And Rescue Scenarios

(DE) Driewer F., Sauer M., Schilling K.

[FRI-1] - Integrated Product And Process Design For Market Driven Supply Chains: Spotlight On The Automotive Industry

Concept Of An Individual Vehicle Check With Formalized Models And Methods

(DE) Schmidt C., Diedrich C.

Ict As An Enabler To The 5-Day Car: A Central Challenge To The Ilipt Project

(DE) Witthaut M., Stone G., Miemczyk J., Hellingrath B.

Making Build To Order A Reality In Europe

(GB) Stone G., Miemczyk J., Esser R.

A Detailed Model For Collaborative Planning And Execution Processes In A 100 Percent Bto Environment In The Automotive Sector

(DE) Nayabi K., Baumgaertel H., Dietz K., Mandel J.

[FRI-2] - Automotive Automation Issues

The Opc In Warehouse Mangement System

(PT) Alvarinhas H., Miguel N., Quinta A., Santos J.

Cost-Benefit Analysis For Bto Planning And Execution Processes

(UK) Keller M. et al.

The Role Of Inventory In Enabling Supply Chain Responsiveness: Empirical Evidence From The Automotive Industry

(UK) Reichhart A., Holweg M.

Innovative Modular Valve Trains For 2015 Logistic Benefits By Electromagnetic Valve Actuation

(UK) Huth T., Elsen O., Hartwig C., Esch T.

Design Of Production Systems

[WED-1] - Stochastic Models Of Production Systems I

Production Control With Advanced Demand Information In A Join-Type Production Line

(JP) Nakade K., Hiraiwa M.

Optimization Of Continuous-Flow Transfer Lines With Delay Using Ipa

(FR) Mourani I., Hennequin S., Xie X.

The Effect Of Dynamic Worker Behavior On Flowline Performance

(IT) Digiesi S., Kock A.A.A., Mummolo G., Rooda J.E.

Performance Evaluation Of Production Systems Monitored By Statistical Process Control And Offline Inspections

(IT) Colledani M., Tolio T.

[WED-2] - Stochastic Models Of Production Systems II

Selection Of Inventory Control Points In Multistage Pull Systems

(US) Askin R.G., Krishnan S.

A Local Search Algorithm For The Inventory Matching Problem In A Steel Company

(BE) Raa B., Van Der Stricht W.

Comprehensive Design Of An Order Picking Line In A Manufacturing Company By Simulation

(PL) Kawczynski L., Aguilar-Sommar R.

Estimating And Announcing Waiting Times In Multiple Customer Class Call Centers

(FR) Jouini O., Dallery Y.

[THU-1] - Line Balancing And Layout

Facility Layout Problems: A Literature Analysis

(FR) Drira A., Pierreval H., Hajri-Gabouj S.

A Generalized Cell Formation Problem In Dynamic Environment With Different Inter And Intra-Cell Batch Sizes

(IR) Safaei N., Tavakkoli-Moghaddam R., Jabal-Ameli S.

Weld Reallocation In An Automotive Robotic Line Due To Robots Failures

(IL) Kahan T., Bukchin Y., Menassa R., Ben-Gal I.

A Comparative Evaluation Of Exact And Heuristic Methods For Transfer Line Balancing Problem

(FR) Guschinskaya O., Dolgui A.

[THU-2] - Product Design And Resource Planning

Modular Discrete Event Simulation Of Manufacturing Systems

(SE) Johansson B.

Design Of Modules Using Genetic Algorithm

(CA) Agard B., Cheung B., Da Cunha C.

Resource Planning Algorithm For Personalizing Networks

(CA) Poulin M., Montreuil B.

Optimizing Modular Machining Line Design Problem

(FR) Bemokhtar S., Dolgui A., Delorme X., Ignatenko I.

[FRI-1] - Production System Design Methodology

Efficient Engineering Of Flexible Assembly Lines In Discrete Manufacturing

(DE) Schilli B., Mechler G., Fay A., Bort P.

Generation Of A Model For Comparing Manufacturing And Natural Responses

(GB) Wolfer S.

Towards A Reference Model For Problem-Solving In Manufacturing System Design

(FR) Guenebaut A., Barth M., De Guio R.

Comparison Of Proces Structure Complexity In Manufacturing Before And After Redesign

(SK) Modrak V.

[FRI-2] - Production Control Systems

A Robust Control Framework For Flexible Manufacturing Systems

(IL) Sinreich D., Shnits B.

Outline Of A Framework For Analysis Of Manufacturing Systems Using The Pac Scheme

(CA) MacDonald C., Gunn E.

A Logic-Algebraic Method Based And Clp-Driven Approach To Control Of Concurrently Competing Cyclic Processes

(PL) Banaszak Z., Wojcik R., Muszynski W.

A New Metaheuristic For The Marking Optimization Problem Of Weighted Marked Graphs

(FR) Toursi L., Sauer N.

Scheduling For Modern Manufacturing, Logistics And Supply Chains

[WED-1] - Production Planning And Scheduling

Finite Horizon Elsp In Flexible Flow Lines With Unrelated Parallel Machines

(IR) Torabi S.A., Jenabi M., Fatemi Ghomi S.M.T., Jolai F., Tavakkoli-Moghaddam R.

Process Design For Efficient Scheduling

(IE) Little J., Selensky E., Beck J.C.

L-Class Enumeration Algorithms For One Interval Production Planning Problem

(RU) Devyaterikova M.V., Kolokolov A.A.

A Home Automation System To Improve Household Energy Control

(FX) Ha D.-L., Ploix S., Zamai E., Jacomino M.

[WED-2] - Flow Shop Scheduling

Scheduling Of Flexible Flow Lines With Blocking By Memetic Algorithms

(IR) Tavakkoli-Moghaddam R., Safaei N., Torabi S.A.

Two-Machine Flow Shop Scheduling With An Interstage Transporter: Two Shipments

(GB) Soper A.J., Strusevich V.A.

A New Heuristic-Em For Permutation Flowshop Scheduling

(FR) Yuan K., Hennequin S., Wang X., Gao L.

Flowshop Scheduling Problem With Batching Machines And Task Compatibilities

(FR) Kamgaing Kuiteing A., Oulamara A., Finke G.

[THU-1] - Job Shop Scheduling

Sequence-Dependent Setup And Clean-Up Times In A Two-Machine Job-Shop With Minimizing Makespan

(DE) Sotskov Y. N., Werner F.

A Tabu Search Algorithm For Solving A Bicriteria Flexible Job Shop Scheduling Problem

(FR) Vilcot G., Billaut J.-C., Esswein C.

A Mathematical Model For Cyclic Scheduling With Work-In-Progress Minimization

(FR) Bourdeaud'huy T., Korbaa O.

Optimizing Cyclic Scheduling In A Job-Shop Using Event Graphs: Still An Open Problem

(FR) Duron C., Proth J.-M.

[THU-2] - Cyclic Scheduling

Flow-Shop Cyclic Scheduling For Cyclic Deliveries

(TN) Bahroun Z., Campagne J.-P., Moalla M.

Application Of Improved Hopfield Network To Cyclic Task Scheduling

(IE) Low K.S., Kechadi M.-T.

Two Approaches Of The Cyclic Scheduling With Assembly

(FR) Trouillet B., Dupas R., Goncalvez G., Tsu T.

Scheduling In A Three-Machine Flexible Robotic Cell

(TR) Gultekin H., Akturk M.S., Karasan O.E.

[FRI-1] - Scheduling Heuristics

Shortest Non-Delay Schedule Algorithm For A Resource-Constrained Project

(IL) Cohen Y., Sadeh A., Zwikael O.

Thermal Test Scheduling Using Constraint Programming

(IE) Little J., Goyal S., Creed P., Berry S., Cokely D.

A Comparison Of Heuristics For Open Shop Scheduling With Sum Objective Functions

(DE) Braesel H., Herms A., Moerig M., Tautenhahn T., Tusch J., Werner F., Willenius P.

Predictive And Proactive Approaches For RcpSP With Labour Constraints

(FR) Drezet L-E., Billaut J-C.

[FRI-2] - Theoretical Aspects Of Scheduling

Cyclic Properties Of Triangular Grid Graphs

(BY) Orlovich Y., Gordon V., Werner F.

On-Line Algorithms For Single Machine Scheduling With Family Setup Times

(GB) Potts C.N., Strusevich V.A., Whitehead J.D.

Scheduling Of Coupled Tasks And One-Machine No-Wait Robotic Cells

(FR) Brauner N., Finke G., Lebacque V., Potts C., Whitehead J.

A Fully Polynomial Time Approximation Scheme For Two Project Scheduling Problems

(RU) Servakh V., Shcherbinina T.

Supply Networks Design And Management

[WED-1] - Flexible And Collaborative Production

Variety, Postponement And Reconfiguration: Insights From Automotive Order Fulfilment Systems

(GB) MacCarthy B., Brabazon P.G

Modeling Cooperation Links Within Networks Of Firms A Case Study

(FR) Benali M., Burlat P.

Analysis Of Collaborative Networks Using The Extremal Graph Theory

(IT) Antonelli D., Caroleo B.

Modelling Information Sharing In A Vmi Environment With Inventory Hub

(IE) Lanning I., Heavey C.

[WED-2] - Extended Enterprise

Digital Traceability From Design To Manufacturing In Extended Enterprises

(ES) Garrido Campos J., Rodriguez Miguez L.

Model Checking In Planning Resource-Sharing Based Manufacturing

(EE) Otto T., Vain J.

Some Aspects Of Ambient Intelligence

(HU) Kovács G.L., Kopácsi S.

Including Kitting Decisions In The Design Of Supply Chains For The Aeronautic Industry

(CA) Ramudhin A., Pronovost J.

[THU-1] - Supply Chain Performance Measurement

Value Stream Oriented Planning Of Supply Networks

(IT) Matt D.T.

Management By Performance Of Supply Chain Processes With The Reed Method

(FR) Lauras M., Pingaud H., Lamothe J.

Performance Measurement In Supply Chain Supported By System Dynamics

(IT) Rafele C., Cagliano A.C.

Overall Performance Measurement In A Supply Chain

(FR) Cliville V., Berrah L.

[THU-2] - Virtual Organizations

A Modeling Framework For Organization Networks

(FR) Zaidat A., Vincent L., Boucher X.

Process Improvement In A Virtual Organization Focused On Product Development Using Collaborative Environment

(MX) Penaranda N., Galeano N., Romero D., Mejía R., Molina A.

A Methodology For Performance Analysis Of Smes Networks

(IT) Villa A., Antonelli D., Cassarino I.

Creation Of Virtual Organizations In A Breeding Environment

(PT) Camarinha-Matos L.M., Afsarmanesh H.

[FRI-1] - Supply Networks

Rebate System For Quality Improvement Under Supply Chain Environment

(JP) Kusakawa E., Kudo K., Ohta H.

A Preliminary Study On Safety Stock Placement In Capacitated Supply Chains

(BE) Sitompul C., Aghezzaf E.-H., Chen H., Dullaert W.

Dynamical Synthesis And Reconfiguration Of Competence-Cell-Based Production Networks

(DE) Ivanov D.A., Zschorn L., Kaeschel J., Sokolov B.V., Archipov A.V.

An Optimization Model For Tailings Distribution In An Oilsand Industry

(CA) Hammami A.

[FRI-2] - OR Methods For Supply Chain Design And Management

A Petri Net Based Decision Support System For Purchasing Management In Supply Chains

(IT) Costantino N., Dotoli M., Falagario M., Fanti M.P., Iacobellis G.

A Lagrangean Heuristic For An Inbound Supply Chain

(MA) Kebe S., Penz B., Sbihi N.

On The Selection Of Effective And Robust Supply Chain Network Designs

(CA) Klibi W., Martel A.

Co-Investment In Supply Chain Infrastructure

(FR) Kogan K., Tapiero C.S.

Production And Logistics

[WED-1] - Forecasting In Logistics Of Production And Inventory

Factors Influencing Forecasting Practices: Empirical Evidence And Guidelines For Research

(IT) Kalchschmidt M.

Demand Forecasting For Multiple Slow-Moving Items With Low Consumption And Short Requests History

(FR) Dolgui A., Pashkevich M.

Why Do Companies Not Produce Better Forecasts Overtime? An Organisational Learning Approach

(GB) Nikolopoulos K., Stafylarakis M., Goodwin P., Fildes R.

Smoothing And Adjustments Of Demand Forecasts For Inventory Control

(GB) Syntetos A.A., Boylan J.E.

[WED-2] - Dynamic Lot Sizing

Lot Streaming And Pegging To Integrate Production Planning And Scheduling

(FR) Robert A., Le Pape C.

Dynamic Programming Approach For A Capacitated Lot Sizing Problem Coupled With Transportation Activities

(FR) Akbalik A., Larbi R., Penz B.

The Multi-Item Capacitated Lot-Sizing Problem With Setup Times, Stock And Demand Shortages

(FR) Absi N., Kedad-Sidhoum S.

A New Approach For Solving Integrated Planning And Scheduling Problem

(FR) Wolosewicz C., Dazere-Peres S., Aggoune R.

[THU-1] - Reverse Logistics

Combining Reverse Logistics Transport Of Hazardous Material Returns With Distribution

(CA) Lambert S., Riopel D.

A Make-To-Stock Queue With Product Returns

(FR) Gayon J.-P.

Operational Vehicle Routing Within Hydro-Quebec'S Reverse Logistics Network

(CA) *Ayas J., Riopel D., Langevin A.*

Intelligent Agent Technology For Reverse Logistics

(IN) *Wadhwa S., Madaan J.*

Production Planning And Inventory Control

[THU-2] - Production Planning Under Uncertainties

A Sub-Optimal Control Policy Applied To Production Planning Problem Under Exogenous Fluctuation Of Demand

(BR) *Salviano O., Filho S., Cezarino W.*

Decision Support For Supply Chain Planning Under Uncertainty

(FR) *Galasso F., Merce C., Grabot B.*

A Model For An Assembly System Under Lead Time Uncertainty

(CA) *Chauhan S.S., Dolgui A., Louly M.-A., Proth J.-M.*

Evaluating The Impact Of Misplacement Errors On Decentralized Retail Supply Chain

(FR) *Rekik Y., Jemai Z., Sahin E., Dallery Y.*

[FRI-1] - Advances In Inventory Policies

An Analysis Of Forecast Based Reorder Point Policies: The Benefit Of Using Forecasts

(FR) *Babai M.Z., Dallery Y.*

A Discrete Eoq Problem With Maximum Order Size Costs

(BY) *Kovalyov M.Y., Cheng T.C.E., Kotov V., Ng C.T.*

Evolution Of Kanban Systems Thanks To A Maxplus Algebra Analysis

(FR) *Cottenceau B., Hardouin L., Ouerghi I.*

Efficient Heuristics To Design Semi Finished Products Stock

(FR) *Yahiaoui A., Frein Y.*

[FRI-2] - Information Sharing And Coordination

Supply Chain Modelling And Control Under Proportional Inventory-Replenishment Policies

(GB) *Papanagnou C., Halikias G.D.*

Inventory Control In A Decentralized Two-Stage Make-To-Stock Queuing System

(FR) *Arda Y., Hennet J.-C.*

A Framework To Elaborate A Strategy Of Information Sharing And Cooperation In A Depot Problem

(FR) *Mehrabi A., Campagne J.-P., Baboli A.*

Analysis Of Rhf Contracts Under Highly Variable Externalised Demand

(IE) *Walsh P.M., Williams P.A., Heavey. C.*

Transportation And Logistics

[WED-1] - Routing Problems

A Multi Objective Model For The Robust Aircraft Routing

(IN) *Nitika, Pal M.N., Pal A.K.*

A Location-Districting Heuristic For Arc Routing Problems

(GB) *Muyldermans L.*

Hybrid Genetic Algorithm To Approach The Darp In A Demand Responsive Passenger Service

(IT) *Carotenuto P., Cis C., Storchi G.*

Evolutionary Algorithms For The Capacitated Arc Routing Problems With Time Windows

(FR) *Ramdane-Cherif W.*

[WED-2] - Traffic Control

An Urban Traffic Control System Using Timed Coloured Petri Nets

(TW) *Huang Y.-S., Chung T.-H.*

Analysis Of Optimal Trajectory For Re-Entry Vehicle

(KR) *Lee D., Cho K.*

Multi-Agent Model Predictive Control For Transportation Networks: Serial Versus Parallel Schemes

(NL) *Negenborn R.R., De Schutter B., Hellendoorn H.*

Bond-Graphs Traffic Flow Modelling And Feedback Control

(FR) *Iordanova V., Abouaissa H., Jolly D.*

[THU-1] - Timetabling In Public Transportation

Spectral Theory In (Max, Plus) Algebra For Performance Evaluation In A Transport Network

(FR) *Nait-Sidi-Moh A., Manier M.-A., El Moudni A.*

Designing A Multi-Agent System For Cooperative Train Dispatching

(NL) *D'Ariano A., Hemelrijk R.*

Timetable Synthesis Using (Max,Plus) Algebra

(FR) *Houssin L., Lahaye S., Boimond J.L.*

Stability Evaluation Of A Railway Timetable At The Station Level

(FR) *Delorme X., Gandibleux X., Rodriguez J.*

[THU-2] - OR-Case Studies And Data Mining

Destination Estimation From Public Transport Smartcard Data

(CA) *Trepanier M., Chapleau R.*

Usage Of OR-Tools For Logistics Support In Forest Operations At Sveaskog After The Storm Gudrun

(NO) *Broman H., Frisk M., Ronnqvist M.*

Mining Public Transport User Behaviour From Smart Card Data

(CA) *Agard B., Morency C., Trepanier M.*

Scheduling Moves Within Railcar Maintenance Centers

(FR) *Ramond F., Dauzere-Peres S., De Almeida D.*

Location And Dynamic Pricing

[FRI-1] - Locational Analysis

Solving Minimax Location Problems On Networks With Maximal Distances

(RU) *Zabudsky G.G., Filimonov D.V.*

The Ant Colony Optimization Algorithm For The Capacitated Plant Location Problem

(RU) *Levanova T.V., Loresh M.A.*

A Bicriteria Problem Of Optimal Service Centers Location

(RU) *Kolokolov A.A., Zaozerskaya L.A.*

New Formulations And Valid Inequalities For The Toll Setting Problem

(BE) *Heilporn G., Labbe M., Marcotte P., Savard G.*

[FRI-2] - Revenue Management And Dynamic Pricing

A Bilevel Approach To Pricing Problems

(FR) *Brotcorne L., Cote J.-P., Marcotte P., Savard G.*

Revenue Management Of Auto Train At Amtrak

(US) *Sibdari S., Lin K., Chellappan S.*

Optimal Product Segmentation With Strategic Customers

(CA) *Wilson J.G., Anderson C.K., Kim S.-W.*

Dynamic Pricing With Online Learning Of General Reservation Price Distribution

(CA) *Levina T., Levin Y., McGill J., Nediak M.*

Novel Models And Approaches For Semiconductor Manufacturing

[WED-1] - Round Table With Industrials And Academics On "Gap Between Theory And Practice"

Gap Between Theory And Practice

(US) *Ignizio J.*

Round Table With Industrials And Academics

[WED-2] - Automated Material Handling Systems

Zone-Based Vehicle Control In Unified Amhs For Wafer Fabs

(CO) *Montoya-Torres J.R., Dauzere-Peres S., Vermarien L., Marian H.*

Integration Of Real Factory Variability In Amhs Simulations For Wafer Fabs

(DE) *Glueer D., Sturm R.*

Approach For Artificial Load Generation For Acceptance Test Of Amhs

(DE) *Fischmann C., Muckenhirn R., Sturm R.*

[THU-1] - Industrial Session

Gantt Charts For Production Flow Framework

(IT) Genua C., Giuffrida S., Rinaudo S.

Creation Of E-Learning Content For Microelectronics Manufacturing

(DE) Oechsner R. et al.

Flying Wafer - A Standardised Methodology For Multi-Site Processing Of 300 Mm Wafers At Research And Development-Sites

(DE) Frickinger J. et al.

An Overview Of An Original Wip Management Framework At A High Volume / High Mix Facility

(FR) Vialletelle P.

[THU-2] - Production Planning And Control

Processes Clusters For Organisational Urbanism

(FR) Boucher X., Chapron J., Burlat P., Lebrun P.

The Mythical Advanced Planning Systems In Complex Manufacturing Environment

(TW) Lin C.-H., Hwang S.-L., Wang M.-Y.E.

Achieving Reduced Cycle Times In Semiconductor Manufacturing Via Effective Control Of The P-K Equation Factors

(IL) Kalir A., Bouhnik S.

Lumped Parameter Modelling Of The Litho Cell

(NL) Kock A.A.A., Etman L.F.P., Rooda J.E.

[FRI-1] - Scheduling And Dispatching

A Survey Of Dispatching Rules For Operational Control In Wafer Fabrication

(US) Varadarajan A., Sarin S.C.

Bi-Criteria Scheduling On A Batching Machine With Non-Identical Job Sizes

(IR) Kashan A.H., Karimi B., Jolai F.

A Batch Optimization Solver For Diffusion Area Scheduling In Semiconductor Manufacturing

(CA) Artigues C., Dauzere-Peres S., Derreumaux A., Sibille O., Yugma C.

Special Session

[FRI-2] - E-Learning And Innovative Pedagogies

Developing Of An Intelligent Enterprise Staff Electronic Learning Component

(LT) Bielskis A.A., Bielskis P., Povilanskas R.

Integrating Mobile Robots Development And Competitions In Engineering Curricula

(PT) Cardeira C., Sousa J.M.C., Caldas Pinto J.R., Ayala Botto M., Ramalho M., Sa Da Costa J.

Web Enabled Cnc Milling Machine Control

(PT) Dias N., Alvarinhas H., Quinta A., Santos J.

Pid Controller Tuning Remote Experiment With Learning Environment Integration

(BR) Schaf F.M., Pereira C.E.

Metaheuristics And Soft Computing In Industrial Applications

[WED-1] - Metaheuristics For Combinatorial Optimization

Simulated Annealing Applied To The Rotational Polygon Packing

(BR) De Castro T., De Sales M.M., Tsuzuki G.

Performance Of Evolutionary Mas In Multiobjective Optimization Of Production Lines

(PL) Kisiel-Dorohinicki M., Siwik L.

Multicriteria Maintenance Problem Resolved By Tabu Search

(BE) Lust T., Teghem J.

A Tabu Search Method For The Non-Oriented Two-Dimensional Bin-Packing Problem

(FR) El Hayek J., Moukrim A., Negre S.

[WED-2] - Fuzzy Logic Or Metaheuristics In Industrial Applications

Fuzzy Controller Of The Air System Of A Diesel Engine

(FR) Arnold J.-F., Langlois N., Chafouk H., Tremouliere G.

A Genetic Local Search Algorithm For Minimizing The Total Weighted Tardiness In A Job-Shop

(FR) Essafi I., Mati Y.

Fuzzy Controller Tuning For Upfc Boost Rectifier By Experimental Designs

(FR) Faucher J., Tonero A., Maussion P.

A Memetic Algorithm With Population Management For A Production-Distribution Problem

(FR) Boudia M., Louly M.A., Prins C.

[THU-1] - Intelligent Systems And Intelligent Information Processing

A Novel Method To Shorten Inspection Process: A Case Study

(TW) Su C.-T., Yang T., Chen L.-S., Chiang T.-L.

Genetic Algorithms For Supply Management Problem With Lower-Bounded Demands

(RU) Borisovsky P., Dolgui A., Ereemeev A.

Neural Modelling And Control Of A Crystal Growth Process In Cane Sugar Industry

(RE) Beyou S., Grondin-Perez B., Benne M., Lorion R.

Rescheduling Of Logistic Processes Using Ga And Aco

(PT) Silva C.A., Sousa J.M., Runkler T., Sa Da Costa J.M.G.

Simulation In Industrial Engineering

[THU-2] - Simulation For Enterprise Engineering

The Applications Of Dynamic Simulation In The Intelligent Plant System

(CN) Fang H., Rong G.

Plant System Based On Material Flow Model In Pechemical Industry

(CN) Huang R., Rong G.

A Simulation Testbed For Decision System Evaluation In A Furniture Manufacturing Group

(FR) Klein T., Thomas A.

Virtual Factory Simulation Platform And Its Application

(CN) Wu Y., Zhang J., Feng Y., Rong G.

[FRI-1] - Simulation In Logistics

Handling Uncertainty In Production Activity Control Using Proactive Simulation

(FR) Cardin O., Castagna P.

Risk Analysis For Cooperation Policies Benefits In Reducing The Bullwhip Effect

(FR) Mahmoudi J., Lamothe J., Thierry S.

Feasibility Evaluation Of Multi-Site Scheduling By Distributed Simulation Of Virtual Workshops

(FX) Enjalbert S., Archimede B., Charbonnaud P.

Xml-Nets For Simulation Of The Supply Chain Processes

(RO) Serbencu A., Minzu V., Cernega D.C.

[FRI-2] - Simulation And Optimization

A Simulation Based Approach For Optimization Of Multi-Stage Production-Distribution Systems With Batch Order

(FR) Li J., Sava A., Xie X.

Using Constraint Programming And Simulation For Execution Monitoring And Progressive Scheduling

(FR) Bidot J., Laborie P., C. Beck J., Vidal T.

Hybrid Approach Using Operational Research And Simulation For Finding Efficient Staff Organization

(FR) Trilling L., Albert F., Marcon E.

Modelling And Optimization Of Production Capacity In Intangible Flow Production Systems

(PL) Korytkowski P.

Special Event: Innovative Engineering Techniques In Healthcare Delivery

[WED-1] - Operation Management - I

Endoscopies Scheduling Problem: A Case Study

(BE) Fei H., Meskens N., Combes C., Chu C.

Operations Management Related Activities For Home Health Care Providers

(FR) Chahed S., Matta A., Sahin E., Dallery Y.

Dynamic Management Of Perioperative Processes: A Paradigm Through Modeling And Visualization

(US) Xiao Y., Wasei M., Hu P., Wieringa P., Dexter F.

Optimization Methods For Surgery Planning Under Uncertain Demand For Emergency Surgery

(FR) Lamiri M., Grimaud F., Xie X.

[WED-2] - Work Organization Optimization

Improving The Efficiency Of A Clinical Laboratory: A Mathematical Approach

(IT) Bruni M.E., Beraldi P., Conforti D.

Renovation Of Mercy Family Health Center

(US) Haji M., Wang L., Wong Y., Darabi H.

Nurse Scheduling Using Integer Linear Programming And Constraint Programming

(FR) Trilling L., Guinet A., Le Magny D.

From A Mono-Disciplinary Surgical Suite Organization To A Multi-Disciplinary Surgical Suite Organization: What Is The Best Multi-Skilled Level For The Cleaning Staff?

(FR) Albert F., Marcon E.

[THU-1] - Process Engineering And Performance Evaluation

Monitoring Waiting Times (Mean Tardiness) On The Day Of Elective Surgery

(US) Dexter F., Marcon E., Epstein R.H.

Process Reengineering And Information System Design For Physical Examination Center

(CN) Qiang S., Xiaoyun Y., Zhibin J., Guotong Z.

Activity Simulation Within A Radiology Department With Limited Nurse Resources

(IT) Celano G., Fichera S., Guglielmino M.G., Trefiletti M.

Optimization Of Hospital Sterilization Costs Acting On Grouping Choices Of Medical Devices Into Packages, Using The Simulated Annealing Method

(FR) Reymondon F., Marcon E.

[THU-2] - Operation Management - II

Using Constraint Programming For Solving Dynamic Scheduling In The Endoscopy Unit

(FR) Elkhyari A., Combes C.

Supplying The Theatre Blocks: Cyclic And Supply Chain Approaches

(FR) Hammami S., Ruiz A., Ladet P., Hadj-Alouane A.B.

A Real-Time Scheduling System For Surgical Management

(CN) Chu B., Jiang Z., Zhang G., Su Q., Miao R., Wang Q.

Re-organizing The Pharmaceutical Supply Chain Dowsntream: Implementation A New Pharmacy

(FR) Hassan T., Baboli A., Guinet A., Leboucher G., Brandon M.-T.

[FRI-1] - Workflow In Health Care

Developing A Surgical Management Information System Driven By Workflow

(CN) Jianhua Q., Zhibin J., Guotong Z., Qiang S., Rui M.

Organization Of The Production Of Sterile Medical Devices

(FR) Di Mascolo M., Gouin A., Ngo Cong K.

Sizing An Emergency Department: A Case Study

(FR) Ben Abbes I., Colin J., Kharraja S., Marcon E.

Industrial Case Studies And Discussion Papers

[FRI-2] - Modelling And Simulation

A Neural Network Architecture For Process Time Estimation - An Application In Petroleum Well Operations

(BR) Roisenberg M., Coelho D.K., De Freitas Filho P.J., Jacinto C.M.C.

Evaluation Of Online Optimization Using Dynamic Simulation Environment

(JP) Takatsu H., Nozaki T., Okada K.

Distributed Simulation Environment To Evaluate Manufacturing Systems Along Engineering Processes

(JP) Inukai T., Hibino H., Fukuda Y.

Application Of Virtual Manufacturing In Developing Manufacturing System For The Lens Module Of Phone-Camera

(KR) Moon D.H., Baek S.G., Zhang B.L., Jung J.Y., Kim Y.K., Song J.Y.

Poster Presentations

[THU-1] - Posters

Johnson's Algorithm: Applications And New Results For Some New Scheduling Problems

(FR) Allaoui H., Lamouri S., Artiba A.

Processing of Formalized Messages and Requests To Remote Databases Of Vertically Integrated Companies

(RU) Lebedev V.N., Asratyan R.E., Orlov V.L.

A Two-Period Stochastic Programming Model For Distribution Network Design

(FR) Tanonkou G.A., Benyoucef L., Xie X.

Em Algorithm For Solving The Stochastic Assembly Line Balancing Problem

(FR) Gu L., Hennequin S., Sava A., Xie X.

Special Case Of The Single Machine Total Tardiness Problem Is Np-Hard

(RU) Lazarev A.A., Gafarov E.R.

About Configuration Under Uncertainty Of A Power Distribution Network

(FX) Aubry A., Espinouse M.-L., Jacomino M., Raison B.

Outsourcing Through Bpr And Scor At Rhodia

(FR) Wattky Crestan A., Neubert G., Bouras A.

Production Scheduling For An Auto-Component Manufacturing Plant Using Model Predictive Control

(IN) Karandikar D., Sardar G.

Minimizing Lmax And Cmax In A Job Shop Problem With Sequence Dependent Setup Times

(TN) Ben Chihaoui F., Dridi N., Hadj-Alouane A.B.

Sensitivity Analysis On A Dynamic Pricing Problem Of An M-M-C Queuing System

(TR) Cil E.B., Karaesmen F., Ormeci E.L.

Learning Of Multilayer Neural Networks With Threshold Activation Functions For Pattern Classification

(BY) Batura M.P., Ptitchkin V.A.

A Hybrid Ant Colony Optimization Algorithm For The Layout Problem

(FR) Hani Y., Amodeo L., Yalaoui F., Chen H.

The Multi-Item Capacitated Lot-Sizing Problem With Setup Times And Additional Industrial Constraints

(FR) Briton J., Hutt C.

Macro-Micro Simulation Of Traffic Flow

(FR) El Hmam M.S., Abouaissa H., Jolly D., Benasser A.

Metaheuristics Versus Spectral And Multilevel Methods Applied On An Air Traffic Control Problem

(FR) Bichot C.-E.

Preventive Maintenance Of Manufacturing Systems Under Subcontractor Constraints

(FR) Dellagi S., Rezg N., Xie X.

New Neural Networks Approach For Optimal Machines Tools Selection

(TN) Ben Khalifa R., Ben Yahia N., Zghal A.

Multicriteria Decision Analysis For Investment Choice Of Helium Extraction Installation

(DZ) Belmokhtar O., Aib M., Aboun N.

A Simulation Study Of The Crankshaft Line In An Automotive Factory

(KR) Moon D.H., Xu T., Shin W.Y.

Dealing With Uncertainty In Supply Chain Management

(LV) Soshko O., Merkurjev Y., Van Landeghem H.

Scheduling Challenges And Approaches In Semiconductor Manufacturing

(FR) Bureau M., Dazere-Peres S., Mati Y.

Operators Assignment Problem In Workshop Scheduling

(FR) Cheurfa M., Baptiste P., Campagne J.-P., Grimaud F.

Optimization In Design Of Unit-Head Machines With A Mobile Table

(FR) Dolgui A., Guschinskaya O., Guschinsky N., Levin G.

Epoch Time Synchronization Method With Continuous Update For Distributed Supply Chain Simulation

(US) Lee S., Zhao X., Shendarkar A., Vasudevan K., Son Y.

Quadratic Assignment Problem: Easily solvable cases

(BY) Demidenko V., Dolgui A.

[FRI-1] - Posters

Evaluating The Holistic Decision Architecture Using An Organizational Metrics System

(CY) Menicou M.

A Generic, Distant And Collaborative Executive System In Extended Enterprises

(FR) Gravier C., Fayolle J.

A Quality Awareness Approach For The Industry

(FR) Hussain K., Leleu-Merviel S.

Case Study: Integration Approaches For Information Management In Virtual Organization

(EE) Kangilaski T.

Transformation Of Product Field Data Into Knowledge

(CH) Bufardi A., Folan P., Kiritsis D., Xirouchakis P.

Remote Monitoring And Control Of A Robotized Fault Tolerant Workcell

(RO) Anton F.D., Borangiu T., Tunaru S., Dogar A., Gheorghiu S.

Identifying And Analysing Data For Cost-Effective Maintenance Decision-Making

(SE) Al-Najjar B., Kans M.

Computerized Simulator For Training The Operators Of Facilities For Destruction Of Chemical Weapons

(RU) Lebedev V.G., Legovich Y.S., Kulida E.L., Rozhdestvenskii D.B.

A Distributed Management System: Towards Pro-Active Information System Management In Virtual Enterprises

(FR) Mathieu H., Ali L., Biennier F.

Formalising An Agent-Based Container Stacking Model Via Petri Nets

(TN) Kefi M., Korbaa O., Ghedira K., Yim P.

Robot Path Planning Using Simulated Annealing

(BR) De Sales Guerra Tsuzuki M., De Castro Martins T., Kawaoka Takase F.

Telematic Based Transport Device Tracking And Supervision System

(PL) Szpytko J., Kocerba A., Tekielak M.

Evaluation Management In Ethically-Social Approach To Security

(PL) Cetnarowicz K., Cieciewa R., Rojek G.

Agent-Based Control For Thermoforming Processes

(CA) Albadawi Z., Thomson V.

Creating Organizational Reality: The Pivotal Role Of Leadership

(FR) Vaudelin J.-P., Devise O.

Safety System For Railway Operation Relating To Access Charge On Infrastructure

(IT) Impastato S., Ricci S.

Decisional Modelling For Engineering To Order (Eto)

(FR) Lattanzio T., Cauvin A.

Common Database Approach For Cost-Effective Maintenance Management

(SE) Kans M., Ingwald A.

Verification, Validation And Accreditation Of Enterprise Models

(FR) Chapurlat V., Braesch C.

Application Of Expert Systems In Intelligent Transportation Systems

(PL) Michalski R., Rychlik A., Szczyglak P., Szuszkiewicz J.

A New Approach For Hybrid Technology Based Workflow Management Systems Design

(RO) Stanescu A.M., Culita J.

A Process Model Based Methodology To Support Conflict Management

(FR) Ouertani M.-Z., Gzara-Yesilbas L., Lombard M.

An Appearance Fuzzy Sensor Integrating A Knowledge Model

(FR) Schmitt E., Bombardier V., Charpentier P., Vogrig R.

Iso9000 Meta-Modelling-Based Advanced Quality Approach For Continuous Improvement Of Manufacturing Processes

(FR) Deeb S., Lung B.

Physical Resource Coordination Problem In Manufacturing System: An Example

(GB) Covanich W., Mcfarlane D., Brusey J.

Using Transponder Technology For Waste Minimization In The Automotive Industry

(DE) Nunes K.R.A., Schnatmeyer M., Thoben K.-D., Valle R.A.B.

Quantitative Risk Analysis In Erp Projects, Based On The Change Measurement

(FR) Camara M.S., Kermad L., El Mhamedi A.

A Time-Triggered Controller Area Network Platform With Essentially Distributed Clock Synchronization

(BR) Carvalho F.C., Pereira C.E., Freitas E.P., Da Silva E.T.

Supply Chain Modeling: The Agent Based Approach

(IN) Wadhwa S., Bibhushan

Models Of Knowledge On Manufacturing Systems For Control Law Synthesis

(FR) Deschamps E., Henry S., Zamaï E.

Mixed Reality Experiment For Distributed Learning Environment In Pneumatics Systems

(BR) Schaf F.M., Pereira C.E.

A Human Machine Interface System To Support Agile Manufacturing In The Context Of Automated Production Machines

(UK) Mellor E.W., Harrison R., West A.A.

NOTES

REVIEWERS

About 2000 reviewing scientific reports, 731 reviewers from all over the world ! These simple figures show the importance of the reviewing process to ensure the excellence of our symposium. Many thanks to all reviewers for their contributions:

J. A. Ghani, L. Abdel-Malek, R. Aboolian, A. Abraham, K. Adjallah, E. Aertbelien, B. Agard, R. Aggoune, E.-H. Aghezzaf, A. Agnetis, Y. Aihua, E. Aimeur, A. Akbalik, B. Al-Najjar, P. Albertos, M. Aldanondo, A. Aleri, K. Ali Chatha, H. Alla, A. Allahverdi, B. Almada-Lobo, L. Almeida, M. A. Aloulou, V. Amarger, M. Amen, Y. Amirat, G. A. Amoussou, H. Andersin, C. Anderson, S.-A. Andreasson, C. Andres, D. Andrews, K. H. Ang, B. Anselmetti, D. Antonelli, A. Aoussat, T. D. Aphamis, A. Artiba, C. Artigues, R. Askin, J. C. Augusto, A. Awasthi, A. Azevedo, M. Z. Babai, C. Baier, E. Bajic, P. Ball, Z. Banaszak, T. Bangemann, R. Banos Navarro, D. Baptiste, P. Baptiste, M. Barad, A. Bargelis, J. J. Bartholdi, M. Batton-Hubert, M. Bayart, P. Beaune, P. Becvar, M. Beigbeder, G. Bel, L. Bellatreche, G. Bellei, S. Belmokhtar, V. Belvedere, K. Benali, G. Benitez, L. Benyoucef, C. Berenguer, U. Berger, A. Bernard, L.-A. Berrah, B. Berthomieu, P. Bertok, G. Bertoluci, M. Beuthe, C.-E. Bichot, J. Bidot, M. Bielli, F. Biennier, M. Bigand, S. Bigot, J.-C. Billaut, U. S. Bititci, J.-C. Blaise, T. Blecker, C. Blum, S. Bock, R. K. Boel, C. R. Boer, J.-L. Boimond, O. Boissier, V. Bombardier, P. Bon, E. Bonjour, T. Borangiu, P. Borisovsky, P. Borne, X. Boucher, J. F. Boujut, A. Bouras, J. Bourey, J.-P. Bourrieres, J. Boylan, N. Boysen, N. Brahimi, D. Brandt, A. I. Bratcu, O. Braun, N. Brauner, R. Brennan, G. Bright, D. Brissaud, L. Brotcorne, J. Browne, P. Brucker, F. W. Bruns, J. Brusey, H. Bruyninckx, Z. Bubnicki, A. Bufardi, Y. Bukchin, P. Burlat, A. Bushuev, L. Buss Becker, J. Buzacott, L. Cai, E. Caillaud, P. Calamain, L. Camarinha-Matos, R. Campa, J. P. Campagne, C. Campos, M. Cantamessa, C. Cardeira, J. Carlier, V. Carre-Menetrier, J. Cassina, P. Castagna, C. Caux, S. Cavalieri, M. Ceccarelli, J. A. Ceroni, J. J. Cervantes-Sanchez, M. Chabrol, N. Chaillet, R. Chalmeta, V. Chapurlat, F. Charoy, P. Charpentier, F. Charpillat, A. Chebira, D. Chen, H. Chen, W.-C. Chiang, A. Chohra, P. Chretienne, J. Chrobot, G. Chryssoulouris, Y. Cohen, M. Colnaric, A. Colombo, C. Commault, C. Conte, A. Corbel, L. Corbett, Y. Crama, E. Craye, A. Crespo, A. Crespo Marquez, D. Crestani, S. F. Crone, S. D Amours, H. Darabi, M. Dassisti, G. Dauphin-Tanguy, S. Dauzere-Peres, J. Dayan, R. De Guio, B. De Schutter, J. D. Decotignie, P. Dehombreux, A. Delchambre, X. Delorme, I. Demongodin, B. Denis, J.-D. Dessimoz, P. Dessureault, M. Devyaterikova, F. Dexter, M. Di Mascolo, C. Diedrich, D. Diep, T. Dinibutun, T. Divoux, K. Djouani, D. Djurdjanovic, G. Dobrowolski, A. Dolgui, C. E. T. Dorea, P. Drake, M. Dufaut, W. Dullaert, M. Dulmet, R. Dupas, L. Dupont, C. Dutheillet, S. Dwivedi, Y. Edan, M. O. Efe, M. Ehgott, A. El Kamel, E.-M. El-Koursi, A. El Mhamedi, E. Eldukhri, A. Elmoudni, C. Emmanouilidis, S. Engell, H.-H. Erbe, E. Erel, A. Eremeev, Y. C. Erensal, B. Espinasse, M.-L. Espinouse, C. Esswein, O. Etzion, B. Eynard, M. Fabian, G. Fadel, J.-M. Faure, M.-C. Fauvet, L. Ferreira, A. Ferreira-Porto-Rosa, R. Fildes, F. G. Filip, B. Finel, G. Finke, X. Fischer, P. Fleming, M. Fliedner, A. M. Florea, J. Fonseca, F. Fontanili, R. Fornasiero, J. Forsberg, J. Fowler, P. Fraisse, F. Franceschini, Y. Frein, G. Frey, M. G. Fugini, S. Fujii, J. A. Garcia-Munoz, L. J. Garcia Villalba, M. Garetta, J.-P. Gayon, L. Geneste, P. Genin, J.-P. Georges, S. B. Gershwin, A. Gharbi, I. Giannikos, R. Gilleron, P. Girard, J. J. Girardot, A. Giua, R. Glardon, K. Goldberg, L. Gomes, G. Goncalves, E. Gonzalez-Galvan, T. Goranson, V. Gordon, M. Gourgand, D. Gouyon, R. M. Goverde, J. Grabis, B. Grabot, J. Grabowski, J.-P. Grandhay, A. Grando, A. Graves, M. Grediac, F. Grimaud, C. Grosan, I. E. Grossmann, R. W. Grubbstrom, M. Grundstein, C. Gueret, C. Guglielmina, D. Guide, F. Guillet, A. Guinet, J. N. Gupta, N. Guschinsky, G. Gutin, L. Gzara, G. Habchi, Y. Haddab, K. Hadj-Hamou, A. Hahn, W. Halang, F. Hamelin, S. Hammadi, E. Hans, Z. Hanzalek, J.-K. Hao, R. Harrison, M. Harzallah, J.-Y. Hascoet, G. Heilporn, J.-C. Hennet, J.-M. Henrioud, J. Hermosillo Worley, M. Hillier, K. Holmberg, M. Howard, C.-Y. Huang, A. Hubert, S.-L. Hwang, S. Iassinovski, R. Isermann, M. Itmi, B. Iung, M. Jacomino, F.-W. Jaekel, A. Janiak, K. Janschek, E. Jantunen, A. K. Jardine, A. Jaszkievicz, L. Javorcik, T. Jeron, M. Jeusfeld, Z. Jiang, P. Johannesson, J. John, T. Johnson, C. Jou, B. Jourquin, J. Jozefowska, G. Juanole, H. Jula, H.-B. Jun, S. Junco, I. Kacem, B. Kadar, T. Kaihara, J. Kaiser, F. Karaesmen, A. Kasinski, H. Kellerer, T. Kesavadas, Y. K. Kim, D. Kirtsis, A. Kleimenov, P. Klemm, A. Koehler, S. L. Koh, A. Kolokolov, J.-L. Koning, P. Kopacek, O. Korbaa, P. Korytkowski, K. Kosanke, A. Koukam, S. Kowalewski, S. Kravchenko, J. Krogstie, U. Kruger, H. Kuehn, M. Kwiatkowska, A. L'Anton, P. Lacomme, P. Ladet, J. Lamothe, S. Lamouri, T. Lamvik, C. Largeton, C. Lartigue, J. M. Lastra, A. Lazarev, D.-H. Lee, M. Lefebvre, P. Leitao, F. Lepage, R. Lepratti, T. Levanova, Y. Levin, E. Levrat, P. Lhoste, C.-L. Li, D. Li, J. Li, G. Liberopoulos, K. Lin, Y. Liu, M. Llana, J.-J. Loiseau, M. Lombard, F. Lombardi, P. Lopez, O. Lopez Orozco, J. Lottin, I. Lushchakova, P. Lutz, A. Macario, M. Macchi, K. Madani, C. Mahulea, V. Majstorovi, H. Man-Wook, H. Marchand, E. Marcon, P. Marcotte, V. Marik, A. Marin, P. Maropoulos, W. Marquis-Favre, J. Marsot, A. Martel, P. Martin, P. Martineau, C. Martinez, M. Mathirajan, Y. Mati, F. Mayer, D. Mcfarlane, J. McGill, N. Mebarki, D. Meizel, A. Mellouk, T. Melo, S. H. Melouk, J. C. Mendez Barreiro, C. Merce, Y. Merkuryev, C. Merlo, D. Mery, J. A. Mesa, N. Meskens, M. Miatselski, J. Miemczyk, P.-A. Millet, M. Minoux, N. Mladenovic, S. Mocanu, L. Moench, A. Moik, A. Molina, J. R. Montoya-Torres, P. Moreaux, L. Morel, B. Morello, A. Moukrim, E. Mueller, J. Mueller, P. Mueller, A. Muller, G. Mummolo, R. Nagi, N. Najid, N. Navet, E. Nawarecki, K. Nayabi, M. Nediak, A. Y. Nee, L. Nemes, E. Neron, G. Neubert, R. Neubert, S. Nickel, J. Y. Nie, E. Niel, M. Nitulescu, D. Noe, S. Y. Nof, T. Nolte, O. Noran, S. Norre, D. Noyes, U. Nunes, C. O Brien, A. Oberweis, C. Oguz, E. Oliveira, A. Ollero, A. Ortiz, P. H. Osanna, M. Ostojic, B. O'Sullivan, A. Oulamara, Y. Ouzrout, A. Pamanes, H. Panetto, Y. Papadopoulos, F. Paradis, P. M. Pardalos, M. Parent, A. Parida, J. L. Paris, A. K. Parlikar, A. Pashkevich, M. Pashkevich, A. Patchong, W. Pearn, B. Penz, C. E. Pereira, C. Perrard, N. Perry, E. Pesch, J.-F. Petin, D. Pham, H. Pierreval, H. Pingaud, E. Pinson, L. Pintelon, J. J. Pinto Ferreira, L. Plassart, F. Plastria, A. Plyasunov, J.-C. Ponsart, V. Popkov, M.-C. Portmann, C. Prins, J.-M. Proth, V. Ptitchkin, S. T. Puente Mendez, P. Pujot, D. Quadt, B. Raa, H. Rabah, C. Rapine, M. Rauner, G. Razvan, X. Rebeuf, T. Redarce, B. Rekiek, J. Renaud, N. Rezg, F. Riane, A. Richard, M. Riedl, G. Ris, C. Rizzi, C. Robert, M. Robert, D. Rodriguez, J. Rodriguez, E. Rondeau, H. Roth, L. Roucoules, C. Roussey, O. Roux, A. E. B. Ruano, J. Rubinovitz, R. Ruiz Garcia, D. W. Russell, G. Rybina, C. Sabourin, E. Sahin, B. Saint Germain, Y. Sallez, M. Sambasivan, N. Sanders, K. Sandkuhl, E. Sanlaville, V. Santibanez, M. A. Sanz-Bobi, S. C. Sarin, D. Sarramia, J. Sasiadek, N. Sauer, D. Sauter, A. Sava, G. Savard, S. Savin, M. Scannapieco, H. Schleich, M. Schneider, A. Schobel, A. Scholl, M. Schroeder, S. Schwarze, C. Seatzu, E. Selensky, M. Sevaux, J. Shah, N. Shakhlevich, V. Shpakov, P. Siarry, S. Sibdari, S. Sigaev, O. S. Silva Filho, M. Silva-Suarez, J. M. Simao, F. Simonot-Lion, T. W. Sloan, A. Smirnov, C. Smutnicki, R. Snyder, M. Sonntag, Y. Sotskov, F. Sourd, M. Sousa, V. Srovnal, P. C. Stadzisz, J. Stahre, M. Staroswiecki, K. E. Stecke, D. Stefanoiu, M. Sterna, T. Stoilov, G. Stone, F. Strozzi, V. Strusevich, R. Sturm, Q. Su, R. Susta, S. V. Suzdal, A. Syntetos, K. Szafnicki, C. Tacquard, E. Taillard, M. Taisch, S. Takata, E.-G. Talbi, A. Tanguy, C. Tapiero, J. Tar, N. Tchernev, J. Teghem, I. Temiz, A. Teplitskiy, F. Tercinet, S. Terzi, D. Theilliol, F. Thiesse, J.-M. Thiriet, J. Thistle, K.-D. Thoben, A. Thomas, J.-P. Thomesse, V. Thomson, S. Tichkiewitch, D. Tilbury, V. T'Kindt, A. Toguyeni, M. Tomizuka, J. Tornquist, F. Torres Medina, M. Trepanier, F. Tricas, S. Tripakis, B. Trouillet, A. Urbaniak, P. Urso, R. Uzsoy, S. Vajna, P. Valckenaers, E. C. Valentin, A. Valentini, R. Valette, H. Van Brussel, H. Van Landeghem, F. Vanderhaegen, J. Vareille, F. Vasques, P. Velardi, L. Vercouter, A. K. Verma, F. Vernadat, Z. J. Viharos, A. Villa, A. Villeminot, F. Villeneuve, L. Vincent, J. Vokrinek, P. Vrba, V. Vyatkin, A. Wagelmans, C. Wang, J. Wang, Y. Wardi, T. Watanabe, A. Weckenmann, G. Weichhart, P. Wenger, F. Werner, R. Weston, P. White, L. Whitman, M. Widmer, A. Wilinski, T. Willemain, M. Witthaut, R. Wolfler, M. Wollschlaeger, D. Worthington, H. Wortmann, Y. Xiao, X. Xie, X. Xu, A. Yalaoui, F. Yalaoui, B. Yannou, L. Ye, J. Yi, P. Yim, J. You, R. Young, E. Yucesan, C. Yugma, K. Yura, O. Zaikin, S. Zaki, E. Zamai, C.-B. Zamrescu, R. Zapata, M. Zarembo, J. Zaytoon, N. Zerhouni, J. B. Zhang, M. T. Zhang, Q. Zhang, X. Zhao, C. Zhou, M. C. Zhou, Y. Zhu, K. Zografos, D. Zuehlke, G. Zuelch.



Three industrial meetings and a showcase for exhibitors

May 18th - 19th 2006 - Congress Center, St Etienne (42-France)
Three events, dedicated to promote science and industrial exchanges !

INCOM'06 wants to innovate, by making a real bridge between research and industry. Our goal is to provide industry and academics leaders with a exciting opportunity to compare their concepts, vision and needs as well as to initiate possible fruitful relationships and ambitious projects of innovation. In this spirit, we have the good fortune to have associated with us three well known industrial meetings: EMM'2006, BPM'2006 and JT'2006.

At least 350 industrial leaders are expected on site, with two main aims: (i) the development of integrated engineering and product life-cycle management in mechanics and mechatronics and (ii) IT systems and their impact on firm's performances or process management.

EMM'2006

The European Mechatronics Meeting (EMM'2006) on Integrated design and Mechatronics takes place the 18th and 19th of May. This congress is organised by THESAME industrial network with the help of the ENISE, ENSM.SE and with a support from the CETIM.

BPM'2006

The 3rd Business Process Management 2006 forum takes place on May 18th: "Management of business processes: connecting strategic and operational management". This forum is coordinated by THESAME industrial network together with the ENSM.SE.

JT'2006

The workshop on architecture and management of information systems takes place on May 19th: "Effective and adaptable information system: architecture and management". This forum is organised by the French "Pole Productique" (PPRA) together with itSMF France and the Industrial Club of Information System Planners.

An exciting exposition!

During these 2 days (May 18th and 19th) devoted to industrial meetings, there is a cutting-edge showcase. This exhibition is a great opportunity for you to evaluate the latest innovations in Information Technology applied to manufacturing systems: Product Life-cycle Management, Integrated Design and Mechatronics, Business Process Modelling and Management, Business Intelligence, Simulation Software, Operation Research Tools, Information Systems Technologies (Integration, EAI, ITIL,...). Come and browse.

BPM'2006 - Business Process Management: From Strategy To Operation

The information system at the heart of the business process management: real value added! While 80% of the enterprises seriously consider a process oriented organization, their main challenge continues to be integrating the three management level: strategic, tactical, operational.

MAY 18th

08h30 -	Welcome	
09h00 -	Introduction	Introduction , <i>L. Guizzi, THESAME, BPM Forum Animator</i>
	Session #1	The Implementation Of Balanced Scorecard (BSC) Within An Approach Of Business Process Management , <i>H. Kuehn, BOC, Development Manager</i>
	Roundtable	Discussion On Process Management Issues <i>Hosted by: L. Guizzi, THESAME, J. Chaillet, CSP</i> <i>Speakers: M. Diop, ORANGE FRANCE, Process Deployment</i> <i>M. Descamps, BSN GLASS PACK, former Director Quality Control for customers</i> <i>M. Schoumacher, GDF, Deputy Director Région Centre Est</i>
10h00 -	Coffee Break	
	Session #2	BPM/BAM Software (Business Process Management – Business Activity Monitoring): Its Place, Advantages And Limits Within The Information System <i>Hosted by: R. Dindeleux, THESAME, Associated Director</i> <i>Speakers: C. Cador, STTS-TOULOUSE, President</i> <i>P. Bayle, AGILIUM, President</i>
11h00 -		To Enhance The Relationship Between Business Players And IT Specialists : How To Utilize Shared Enterprise Models (Methodology And Case Studies) <i>J.-F Pirus, BPMS, Director and BPMS.info editor</i>
12h00 -	Lunch	Lunch and Exposition Visit (BPM, BAM, Process Analysis, ...)
12h30 -	Expo Visit	
	Session #3	The Benefit of BPM/BAM To Manage Shopfloor Activities: The MES Process On Demand (M.E.S: Manufacturing Execution System) <i>J.-M. Bornand, ERA Club (Rhône-Alpes Region Software Editors), President</i>
14h00 -	PAUSE CAFE	
	Session #4	Process oriented organization: deployment methodology, expert advice and industrial best practices. <i>Hosted by: L. Guizzi, THESAME, BPM Forum Animator</i> <i>assisted by diverse experts and industrial speakers</i>
15h00 -		
16h00 -	Expo Visit	Exposition visit (BPM, BAM, Process analysis, ...)
17h00 -		

JT'2006 - An Efficient And Scalable Information System: Architecture And Governance

Information Management is becoming ever more essential to company strategy: a critical performance factor. Nevertheless, Information Management can seem as a drawback often limiting flexibility. Therefore, the principle challenge is to ensure a coherent fit of the IT to the business.

MAY 19th

« Improving IT Management Role And Efficiency »

*Morning Session Kicked Off By OSIATIS (C. Durand)
And Members Of The itSMF France Association*

08h30 -	Welcome
09h00 -	Session #1
10h00 -	Coffee Break
11h00 -	Session #2
12h00 -	Roundtable
12h45 -	Lunch
14h15 -	Expo Visit
15h00 -	Session #3
16h00 -	Session #4
17h00 -	

Strategy For IT Management ?

C.Durand, OSIATIS, Development Director and CTO

New Standard For IT Services Management (ITSM)

T. Chamfrault, BOUYGUES TELECOM, Internet operational master builder

IT Services Management Within A Manufacturing Firm. Actual Case.

O. Maupaté, ESSILOR, Production manager

How To Present, Insure And Manage IT Services As An Integral Support Of All A Compagny's Functions ?

hosted by: C.Durand, OSIATIS, Development Director and CTO

Speakers: Lecturers and members of a work team of the Pôle Productique Rhône-Alpes

Lunch and Exposition visit

Information System Architecture

A. Turba, M. Dardet, ORESYS, Senior Consultants,

Members of the industrial club URBA-EA

Architecture of IS: state of the art

M. Dardet, Club Urba-EA

S. Sadones, RENAULT, IS architect

Case studies

Hosted by: A. Turba, M. Dardet, ORESYS, Senior Consultants

- Scenarios of changing management projects for SME
CEREP, Industrial experiences
- IS architecture in a context of strong business changes
G. Roussel, Network of gas distribution, internal consultant

EMM'2006 – From Mechanic To Mechatronics, Risk Or Opportunity For Industry ? (1/2)

MAY 18th

08h00 -	Welcome	« Improve the efficiency of your product designs with integrated engineering »
	Introduction	Introduction <i>French industrial leaders and research competitive clusters representatives</i>
09h00 -	Session #1	Integrated Engineering In Practice <ul style="list-style-type: none">- Advantages And Concepts <i>J.-C Bocquet, ECOLE CENTRALE DE PARIS</i>- Reliability All Through The Process Design <i>P. Lyonnet, R. Toscano, ECOLE NATIONALE D'INGENIEURS DE SAINT-ETIENNE</i>- Risk Management In The Design Of Safety Devices <i>B. Lanternier, D. Charpentier, INERIS</i>
10h00 -	Coffee Break	
11h00 -	Session #2	Reliability And Maintenance In Design - Examples Of Applications <ul style="list-style-type: none">- Experimental Dependability: Definition Of A Test Bed <i>A. Poncet, RENAULT TRUCKS</i>- Building Up Of Experiment Plans Based On A Forced Resistance Approach Combined With Degradation Measurements <i>P. Schimmerling, RENAULT, Manager Statistics and Reliability Dept</i>- Optimisation Of Helicopter Maintenance Costs, Using "Design To Cost" <i>M. Glade, EUROCOPTER</i>
12h30 -	Lunch	Lunch And Break
14h00 -	Exhib. Visit	Visit of the Exhibition
15h00 -	Session #3	Rapid Prototyping – Examples Of Applications <ul style="list-style-type: none">- Design And Performance Of PHENIX Equipment <i>P. Teulet, PHENIX SYSTEMS</i>- Direct Laser Metal Powder Production: Application To Tools And Manufactured Parts <i>B. Le Razer, EUROPEAN CENTER FOR PLASTURGY</i>- Rapid Prototyping And Direct Fabrication Via Laser Of Multi Composite Objects With Multifunctional Uses <i>Philippe Bertrand, ECOLE NATIONALE D'INGENIEURS DE SAINT-ETIENNE</i>
16h00 -	Coffee Break	
17h00 -	Roundtable	The Transition From Integrated Mechanical Engineering Towards Mechatronics <i>Hosted by: Ph. Bertrand, ECOLE NATIONALE D'INGENIEURS DE SAINT-ETIENNE J.-C. Bocquet, ECOLE CENTRALE DE PARIS D. Charpentier, INERIS</i>

"Welcoming soirée" offered by the business leaders in the Loire region, at the reception rooms of the well known football stadium Geoffroy Guichard (Saint-Etienne)

08h00 -	Session #1	<p>Economic Impact of Mechatronics</p> <ul style="list-style-type: none"> - Mechatronics At The Heart Of Competitiveness <i>Representatives of the Competitive Clusters ARVE INDUSTRIES and VIAMECA.</i> - Economic Impact In The Automotive Industry: Results Of The First European Study <i>T. Dujardin, DECISION</i>
09h00 -	Session #2	<p>How to Start With Mechatronics ?</p> <ul style="list-style-type: none"> - Design Outsourcing: A Key To Success ? <i>J.- D. Sauzade, TELEMAQ</i> - Integrating Reliability And Functional Safety At The Design Stage. <i>P. Lyonnet, R. Toscano, ENISE</i> - Marketing Of Mechatronic Products: New Skills And New Commercial Approaches. <i>P. Laurin, BOSCH REXROTH, Marketing Manager technical support</i>
10h00 -	Coffee Break	
11h00 -	Session #3	<p>Implementation Of Mechatronics In Industry</p> <p>Mechatronics And SMEs:</p> <ul style="list-style-type: none"> - Ten Years Of Mechatronic Design: Success And Failure Factors <i>E. Bruyat, ALPES DEIS, Director electronic laboratory</i> - Mechatronics: Advantages For Design And Fabrication Of Intelligent Tools <i>S. Grygorowicz, RB3D, Director</i> <p>Mechatronics And Transport:</p> <ul style="list-style-type: none"> - The Vehicle Sector Organizes Around Mechatronics <i>G. Galand, STARTEC, project manager mechatronics CETIM</i>
12h00 -	Lunch	
12h30 -	Lunch	
14h00 -	Exhib. Visit	<p>Visit of the Exhibition</p>
15h00 -	Session #4	<p>Mechatronics and production:</p> <ul style="list-style-type: none"> - Trends In The Evolution Of Production Systems Architecture And Their Economic Impact <i>D. Thomas, BERGER LAHR, SCHNEIDER ELECTRIC GROUP</i> - When Pneumatics Meets Mechatronics <i>L. Marais, BOSCH REXROTH, Manager Pneumatic Development</i> - A Integration Platform For Maintenance Tools: The Proteus System <i>D. Reboul, CEGELEC, J.-P. Thomesse, LORIA</i>
16h00 -	Roundtable	<p>New Forms Of Organisation And Engineering Products</p>

Contact

INCOM'2006 secretariat

Ecole nationale supérieure des mines de Saint-Etienne

158, cours Fauriel - 42023 Saint-Etienne Cedex 2 - France

Phone: +33 (0)4 77 42 01 65 / Fax: +33 (0)4 77 42 66 66

E-mail: incom06@emse.fr - <http://www.emse.fr/incom06>

Associated institutions



Partners for organization



Industrial sponsors



Practical information



By road

- _ Motorway A72 Clermont-Ferrand / Saint-Etienne
- _ Motorway A47 Lyon / Saint-Etienne
- _ Route 82 Roanne / Saint-Etienne
- _ Route 88 Firminy - Le Puy / Saint-Etienne

By train

- _ Direct links with Paris, Lyon, Marseille by T.G.V. (high speed rail)
- _ Direct links with Paris-CDG Airport by T.G.V.

By plane

- _ PARIS-CDG & PARIS-ORLY AIRPORTS - Information: +33 (0)1 48 62 12 12
- _ LYON-SAINT EXUPERY AIRPORT - Information: +33 (0)826 800 826

Hotel reservations

Please note that you should book your hotel as soon as possible, to be sure to find the type of accommodation your are looking for. For your convenience, please download the accommodation registration form at:

http://www.emse.fr/incom06/pdf/hotels_en.pdf

Then forward the completed form by post, fax or email.

For more information, see:

http://www.tourisme-stetienne.com/site_ang/index.htm