



Second International Conference on  
**Business Sustainability, 2011**  
Management, Technology and Learning for Individuals,  
Organisations and Society in Turbulent Markets

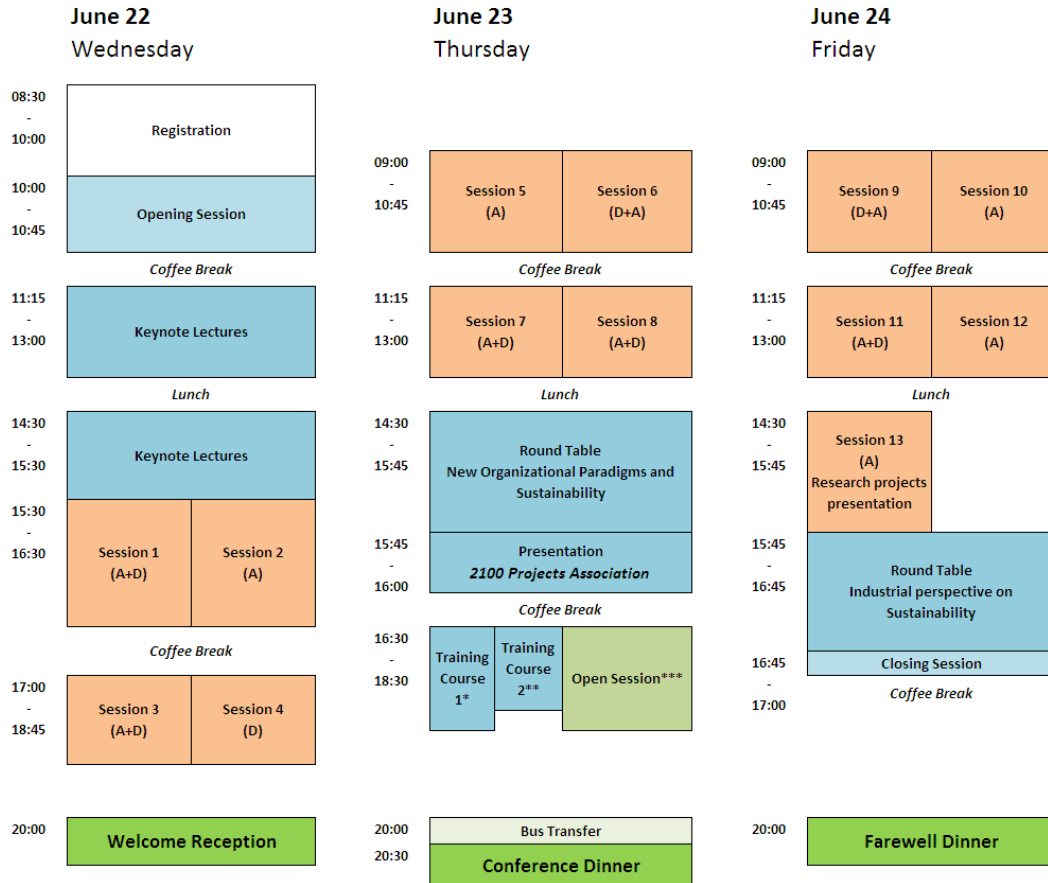
# CONFERENCE PROGRAM



**isep** Instituto Superior de  
Engenharia do Porto

June 22-24, 2011  
Póvoa de Varzim - Portugal

# PROGRAM



**LEGEND:**

- Plenary sessions
- Parallel sessions
- Open session
- Social programme

(D) - Dialogue session

(A) - Author's presentation session

\* - Training course 1 on "How enterprises networks dynamics helps competitiveness of your company: The impact on time-to-market reduction"

\*\* - Training course 2 on "How to use and implement web services for supporting manufacturing systems management"

\*\*\* - Open session / Sightseeing tour

**Wednesday**  
**22<sup>nd</sup> June**

**Opening (10:00-10:45)**

Room "Eça de Queirós"

*Coffee Break*

**Keynote Lectures (11:15-13:00)**

Room "Eça de Queirós"

**INNOVATION AND THE SUSTAINABILITY JOURNEY**

Peter Smith, *The Leadership Alliance Inc. (Canada)*

**VIRTUAL AND VIRTUALITY: IMPLICATIONS FOR KNOWLEDGE MANAGEMENT**

Prof. Jovan Filipovic, *University of Belgrade (Serbia)*

**SOCIALIZING FOR SUSTAINABILITY: TOWARDS PERFORMATIVE KNOWLEDGE ARCHITECTURES FOR NEO-MILLENNIAL ORGANIZATIONS**

Dr. Henk Eijkman, *University of New South Wales, ADFA Campus, Canberra (Australia)*

*Lunch*

**Keynote Lectures (14:30-15:30)**

Room "Eça de Queirós"

**A SEMIOTIC FRAMEWORK PERSPECTIVE ON COMPLEXITY AND SUSTAINABILITY MANAGEMENT IN ORGANIZATIONS**

Putnik, Goran, *Department of Production and Systems Engineering, School of Engineering, University of Minho (Portugal)*

Putnik, Zlata, *CITEPE, University of Minho (Portugal)*

**ETHICS, GOVERNANCE AND ECONOMIC DEVELOPMENT**

Valdir de Jesus Lameira, *INESC, Coimbra (Portugal)*

Jean E. Harris, *School of Business Administration - Capital College - The Pennsylvania State University (USA)*

Oswaldo L. G. Quelhas, *Federal Fluminense University, MSG/LATEC (Brazil)*

Roberto G. Pereira, *Federal Fluminense University, TEM/PGMEC/MSG (Brazil)*

**ON THE LIMITATIONS OF GOVERNMENT SPENDING**

Sónia R. Bentes, *ISCAL, Lisbon (Portugal)*

Kedarnath Banerjee, *ISCTE, Lisbon (Portugal)*

## Session 1 (15:30-16:30)

Room "Eça de Queirós"

**Session Type: AUTHOR'S PRESENTATION AND DIALOGUE**

**Chair:** Cláudio Alves

### **HEURISTIC METHODS FOR PROCESS OPTIMIZATION IN THE AUTOMOTIVE INDUSTRY**

Telmo Pinto, *Centro de Investigação Algoritmi, Escola de Engenharia, Universidade do Minho, Braga (Portugal)*

Cláudio Alves, *Centro de Investigação Algoritmi, Escola de Engenharia, Universidade do Minho, Braga (Portugal)*

J. M. Valério de Carvalho, *Centro de Investigação Algoritmi, Escola de Engenharia, Universidade do Minho, Braga (Portugal)*

Pedro Brás, *Centro de Investigação Algoritmi, Escola de Engenharia, Universidade do Minho, Braga (Portugal)*

Reviewer: Paulo Ávila

Dialogue Facilitator: Cláudio Alves

### **SWARM INTELLIGENCE FOR SCHEDULING: A REVIEW**

Ana Madureira, *GECAD, ISEP/ IPP, Porto (Portugal)*

Nelson Sousa, *GECAD, ISEP/ IPP, Porto (Portugal)*

Ivo Pereira, *GECAD, ISEP/ IPP, Porto (Portugal)*

(Author's presentation)

## Session 2 (15:30-16:30)

Room "Gomes de Amorim"

**Session Type: AUTHOR'S PRESENTATION**

**Chair:** Leonilde Varela

### **ASSEMBLY LINE BALANCING USING GENETIC ALGORITHMS**

Ricardo Pimenta, *ISEP (Portugal)*

Manuel Silva, *ISEP (Portugal)*

Cecília Reis, *ISEP (Portugal)*

### **AN ONTOLOGY FOR PRODUCTION SYSTEMS ENVIRONMENTS OF SCHEDULING PROBLEMS**

S. Carmo-Silva, *Dept. Production & Systems, University of Minho (Portugal)*

Maria Leonilde Rocha Varela\*, *Dept. Production & Systems, University of Minho (Portugal)*

## Coffee Break

## Session 3 (17:00-18:45)

Room "Eça de Queirós"

**Session Type: AUTHOR'S PRESENTATION AND DIALOGUE**

**Chair:** Goran Putnik

### **TOWARDS A SITUATION ADAPTIVE SHOP FLOOR PRODUCTION**

Scholz-Reiter, Bernd, *BIBA – Bremer Inst. Für Produktion und Logistik, Univ. of Bremen (Germany)*

Harjes, Florian, *BIBA – Bremer Inst. Für Produktion und Logistik at the Univ. of Bremen (Germany)*

Mansfeld, Jeanette, *BIBA – Bremer Inst. Für Produktion und Logistik at the Univ. of Bremen (Germany)*

Kieselhorst, Timo, *University of Bremen (Germany)*

Becker, Jessica, *University of Bremen (Germany)*

(Author's presentation)

**A REDUCTION METHOD FOR NONLINEAR SEMI-INFINITE PROGRAMMING BASED ON AN EXACT PENALTY TECHNIQUE**

Alzira Maria T. da Mota, *School of Engineering, Polytechnic of Porto (Portugal)*  
Ismael F.Vaz, *School of Engineering, University of Minho (Portugal)*  
(Author's presentation)

**A RECONFIGURATION TIME STRUCTURE MODEL FOR AGILE AND VIRTUAL ENTERPRISES**

Putnik, Goran, *University of Minho (Portugal)*  
Alves, Cátia, *University of Minho (Portugal)*  
Castro, Hélio, *University of Minho (Portugal)*  
Cruz-Cunha, Maria Manuela, *Polytechnic Institute of Cávado and Ave (Portugal)*  
(Author's presentation)

**RELAXATION INDUCED METHODS BASED ON COLUMN GENERATION FOR VEHICLE ROUTING PROBLEMS**

Rita Macedo, *Centro de Investigação Algoritmi, Escola de Engenharia, Universidade do Minho, Braga (Portugal)*  
Cláudio Alves, *Centro de Investigação Algoritmi, Escola de Engenharia, Universidade do Minho, Braga (Portugal)*  
J. M. Valério de Carvalho, *Centro de Investigação Algoritmi, Escola de Engenharia, Universidade do Minho, Braga (Portugal)*  
Saïd Hanafi, *LAMIH-SIADE, Université de Valenciennes et du Hainaut-Cambrésis, Le Mont Houy (France)*  
Reviewer: Manuel Pereira Lopes  
Dialogue Facilitator: Goran Putnik

**Session 4 (17:00-18:45)**

Room "Gomes de Amorim"

**Session Type: DIALOGUE**

**Chair: Sérgio Sousa**

**ON THE CHARACTERISATION OF UNCERTAINTY IN PERFORMANCE MEASUREMENT SYSTEMS**

Sérgio Sousa, *University of Minho (Portugal)*  
Eusébio Nunes, *University of Minho (Portugal)*  
Isabel Lopes, *University of Minho (Portugal)*  
Reviewer: João Bastos  
Dialogue Facilitator: Paulo Ávila

**A LOCATION PROBLEM IN THE FIELD OF WIND ENERGY**

Elsa Sousa, *Institute of Mechanical Engineering and Industrial Management – INEGI, Porto (Portugal)*  
Miguel Marques, *Institute of Mechanical Engineering and Industrial Management – INEGI, Porto (Portugal)*  
José Matos, *Institute of Mechanical Engineering and Industrial Management – INEGI, Porto (Portugal)*  
Cláudio Alves, *Centro de Investigação Algoritmi, Escola de Engenharia, Universidade do Minho, Braga (Portugal)*  
Reviewer: Alexandre Sottomayor  
Dialogue Facilitator: Paulo Ávila

**AN EXACT SOLUTION APPROACH FOR AMULTI-FOLLOWER BILEVEL OPTIMIZATION PROBLEM**

Raid Mansi, *Centro de Investigação Algoritmi, Universidade do Minho, Braga (Portugal)*  
Cláudio Alves, *Centro de Investigação Algoritmi, Universidade do Minho, Braga (Portugal)*  
J. M. Valério de Carvalho, *Centro de Investigação Algoritmi, Universidade do Minho, Braga (Portugal)*  
Saïd Hanafi, *LAMIH-SIADE, Université de Valenciennes et du Hainaut-Cambrésis, Le Mont Houy (France)*  
Reviewer: Alzira Mota  
Dialogue Facilitator: Paulo Ávila

**ON THE ADEQUACY OF ENTROPY IN ASSESSING STOCK MARKET VOLATILITY**

Sónia R. Bentes, *ISCAL, Lisbon (Portugal)*  
Reviewer: Sérgio Sousa

Dialogue Facilitator: Cláudio Alves

**20:00**

Hotel Bar

*Welcome Reception*

**Thursday**  
**23<sup>rd</sup> June**

## **Session 5 (9:00-10:45)**

Room "Eça de Queirós"

**Session Type: AUTHOR'S PRESENTATION**

**Chair:** Paulo Garrido

### **LEAN VS. AGILE IN THE CONTEXT OF COMPLEXITY AND SUSTAINABILITY MANAGEMENT IN ORGANIZATIONS: A CONTRIBUTION TO THE R&D PROGRAMS FORMULATION**

Putnik, Goran, *University of Minho (Portugal)*

Putnik, Zlata, CITEPE, *University of Minho (Portugal)*

### **FIRMS AS TEAMS**

Garrido, Paulo, *University of Minho (Portugal)*

### **LEAN PRODUCTION PROMOTES THINKERS, NOT "ANDROIDS"**

Anabela C. Alves, *University of Minho (Portugal)*

José Dinis Carvalho, *University of Minho (Portugal)*

Rui M. Sousa, *University of Minho (Portugal)*

### **A REVIEW OF AGILE AND LEAN MANUFACTURING AS ISSUES IN SELECTED INTERNATIONAL AND NATIONAL RESEARCH AND DEVELOPMENT PROGRAMS**

Putnik, Goran, *University of Minho (Portugal)*

Castro, Hélio, *University of Minho (Portugal)*

Shah, Vaibhav, *University of Minho (Portugal)*

## **Session 6 (9:00-10:45)**

Room "Gomes de Amorim"

**Session Type: DIALOGUE AND AUTHOR'S PRESENTATION**

**Chair:** Paulo Ávila

### **FROM MANAGEMENT SYSTEMS (9K, 14K, 18K) TO RS (26K): ITS INFLUENCE IN RISK MANAGEMENT AND CONSEQUENT COMPETITIVENESS FACTORS OF THE ORGANIZATIONS THAT ADOPTS THEM**

Lopes Ricardo, Bureau Veritas and UAL (Portugal)

Reviewer: Luís Fonseca

Dialogue Facilitator: Sérgio Sousa

### **STAKEHOLDER SATISFACTION AND SUSTAINABLE SUCCESS**

Luís Fonseca, ISEP/APCER (Portugal)

Ramos Amílcar, ISCTE – IUL (Portugal)

Rosa Álvaro, ISCTE – IUL (Portugal)

Braga Ana Cristina, DPS - U. Minho (Portugal)

Sampaio Paulo, DPS - U. Minho (Portugal)

Reviewer: Ricardo Lopes

Dialogue Facilitator: Sérgio Sousa

### **AN USER-DRIVEN APPROACH FOR SERVICE PROCESS INNOVATION**

José Monteiro, Faculty of Engineering of University of Porto, FEUP (Portugal)

Fernando Almeida, Innovation and Development Centre, ISP Gaya and FEUP (Portugal)

Reviewer: António Almeida

Dialogue Facilitator: Ricardo Lopes

**CUSTOMER-ORIENTED AND ECO-FRIENDLY NETWORKS FOR HEALTH FASHIONABLE GOODS – THE CORENET SUSTAINABLE APPROACH**

João Bastos, *INESC Porto (Portugal)*  
 Américo Azevedo, *INESC Porto (Portugal)*  
 António Almeida, *INESC Porto (Portugal)*  
 Nicola Magaletti, *TXT e-Solutions SPA (Italy)*  
 Dieter Stellmach, *DITF Denkendorf – Centre for Management Research (Germany)*  
 Rosanna Fornasiero, *ITIA-CNR -Institute of Industrial Technologies and Automation -National Council of Research (Italy)*  
 Andrea Zangiacomì, *ITIA-CNR -Institute of Industrial Technologies and Automation -National Council of Research (Italy)*  
 (Author's presentation)

*Coffee Break*

**Session 7 (11:15-13:00)**

Room “Eça de Queirós”

**Session Type: AUTHOR’S PRESENTATION AND DIALOGUE**

**Chair:** Raymond Saner

**CAPACITY BUILDING FOR SOCIAL DEVELOPMENT: A COMPETENCY BASED MODEL FOR EDUCATION IN SOCIAL DEVELOPMENT**

Prof. Dr. Raymond Saner, *University of Basle/ Sciences Po, Paris (France)*  
 Prof. Dr. Lichia Yiu, *Centre for Socio-Eco-Nomic Development, Geneva (Switzerland)*  
 (Author presentation)

**SME’S E-LEARNING TO E-WORK EFFICIENTLY**

Gerhard Doppler, *Bit media e-Learning solution GmbH & Co KG (Germany)*  
 Ingrida Borisenko, *Vakaru Lietuvos Verslo Kolegija (Lithuania)*  
 Joana Soares, *Inovafor, Lda. (Portugal)*  
 Kinga Dancshazy, *Inno-Motive Nonprofit Ltd (Hungary)*  
 Marta Pinto, *Inovafor Lda. (Portugal)*  
 Reviewer: Alexandra Costa Dialogue Facilitator: Lichia Yiu

**PROMOTION OF SCHOOL SUCCESS THROUGH PBL – PROJECT BASED LEARNING – AND PROJECT MANAGEMENT GOOD PRACTICES BASED ON PROJECT MANAGEMENT BODY OF KNOWLEDGE (PMBOK®)**

Rodrigues, J., *Instituto Politécnico do Porto, Instituto Superior de Engenharia do Porto, Departamento de Organização e Gestão (Portugal)*  
 Costa, M. A., *Instituto Politécnico do Porto, Instituto Superior de Engenharia do Porto, Departamento de Organização e Gestão (Portugal)*  
 Reviewer: Marta Pinto Dialogue Facilitator: Lichia Yiu

**Session 8 (11:15-13:00)**

Room “Gomes de Amorim”

**Session Type: AUTHOR’S PRESENTATION AND DIALOGUE**

**Chair:** Vesna Spasojević Brkić

**EFFECTIVENESS OF QUALITY MANAGEMENT FACTORS AND DIFFERENCE IN TOTAL FACTOR PRODUCTIVITY**

Vesna Spasojević Brkić\*, *University of Belgrade (Serbia)*  
 Nikola Dondur, *University of Belgrade (Serbia)*  
 Aleksandar Žunjić, *University of Belgrade (Serbia)*  
 Milivoj Klarin, *University of Novi Sad, (Serbia)*  
 Tamara Sedmak, *University of Belgrade (Serbia)*  
 (Author's presentation)



**FOOD SAFETY CERTIFICATION AND SUSTAINABILITY**

Pedro Pereira, *ISEP (Portugal)*  
Luís Fonseca, *ISEP/APCER (Portugal)*  
(Author's presentation)

**INTEGRATED MAINTENANCE MANAGEMENT OF SHOPPING CENTERS: A CASE STUDY**

Joaquim Moreira, *ISEP (Portugal)*  
Manuel Pereira Lopes, *ISEP (Portugal)*  
(Author's presentation)

**BENCHMARKING ON BEHALF OF MANAGEMENT SYSTEMS INTEGRATION**

Domingues, J.P.T., *Systems and Production Department, School of Engineering, University of Minho, Braga (Portugal), Laboratório Químico Marques Ferreira, Complexo Delphi-Bosch, Ferreiros, Braga (Portugal)*  
Sampaio, P., *Systems and Production Department, School of Engineering, University of Minho, Braga (Portugal)*  
Arezes, P.M., *Systems and Production Department, School of Engineering, University of Minho, Braga (Portugal)*  
Reviewer: Manuel Lopes

Dialogue Facilitator: Vesna Spasojević Brkić

*Lunch*

**Round Table “New Organizational Paradigms and Sustainability”  
(14:30-15:45)**

Room “Eça de Queirós”

**Chair:** Goran Putnik

**Presentation: 2100 Projects Association – Scientific Association  
for Promotion of Technology and Management for Organizational  
and Social Transformative Change**

**(15:45-16:00)**

Room “Eça de Queirós”

**Chair:** Goran Putnik

*Coffee Break*

## Training course 1 “How enterprises networks dynamics helps competitiveness of your company: The impact on time-to-market reduction”

**(16:30-18:30)**

Room “Eça de Queirós”

**Instructors:** Goran Putnik and Hélio Castro

## Training course 2 “How to use and implement web services for supporting manufacturing systems management”

**(16:30-18:00)**

Room “Gomes de Amorim”

**Instructor:** Leonilde Varela

## Open Session (16:30-18:30)

Further enhancement of the participants’ interactions.

Two types of interactions are encouraged: **Informal Group Dialogues** and **Formal Groups Formation and Deliberations**:

**1. Informal Group Dialogues:** informal dialogues in informal sub-groups during walks on the beach, surrounding of the conference hotel or in the conference rooms.

**2. Formal Groups Formation and Deliberations:** forming of formal groups and proposals for deliberations on selected themes (proposed by the participants).

These sessions include too the opportunity to present informally your ideas through non-standard presentations including videos, software, simulations, artwork, as well as their experimental and prototype versions.

**NOTE 1:** For any necessary logistic please contact the organization in advance.

### Alternative

Sightseeing tour: Town, eco-museum, “*água e pão*” (water and bread) itinerary  
Offered by: Câmara Municipal de Póvoa de Varzim – Póvoa de Varzim City Council~

**Starting point:** Hotel entrance

**Please contact the Conference organizers for reservation.**



**20:00 (meeting time at the Hotel entrance)**

**Bus transfer**

**20:30**

*"Casa de Lavrador" (Ecomuseum)*

*Conference dinner*

*Offered by: Câmara Municipal de Póvoa de Varzim – Póvoa de Varzim City Council*



**Friday**  
**24<sup>th</sup> June**

## **Session 9 (9:00-10:45)**

Room “Eça de Queirós”

**Session Type: DIALOGUE AND AUTHOR’S PRESENTATION**

**Chair:** António Pires

### **PERFORMANCE AND RISK ASSESSMENT FRAMEWORK FOR SUSTAINABLE NETWORKS**

António Almeida, *INESC Porto (Portugal)*

Roberto da Piedade, *INESC Porto (Portugal)*

João Bastos, *INESC Porto (Portugal)*

Américo Azevedo, *INESC Porto (Portugal)*

Paulo Ávila, *ISEP (Portugal)*

(Author presentation)

### **RESOURCES SELECTION FOR AGILE/VIRTUAL ENTERPRISES: PART II – PROTOTYPE/DEMONSTRATOR TOOL**

A. Castro, *Polytechnic Institute of Porto (Portugal)*

A. Pires, *Polytechnic Institute of Porto (Portugal)*

L. Costa, *University of Minho, School of Engineering (Portugal)*

G. Putnik, *University of Minho, School of Engineering (Portugal)*

P. Ávila, *Polytechnic Institute of Porto (Portugal)*

Reviewer: António Galvão Ramos

Dialogue Facilitator: João Bastos

### **IN-HOUSE OUTSOURCING OF PACKAGING ACTIVITIES**

António Galvão Ramos, *ISEP, CIDEM (Portugal)*

João Pinho Ribeiro, *ISEP, CIDEM (Portugal)*

Manuel Pereira Lopes, *ISEP, CIDEM (Portugal)*

Reviewer: António Pires

Dialogue Facilitator: João Bastos

## **Session 10 (9:00-10:45)**

Room “Eça de Queirós”

**Session Type: AUTHOR’S PRESENTATION**

**Chair:** Valdir de Jesus Lameira

### **URBAN TRANSPORT OF THE FUTURE**

L. Miranda Torres, *Mechanical Engineer Department, ISEP, Porto (Portugal)*

J. Francisco Silva, *Mechanical Engineer Department, ISEP, Porto (Portugal)*

A. Torres Marques, *DEMEGI, INEGI, University of Porto, Porto (Portugal)*

### **THE ENERGY PERFORMANCE CERTIFICATION OF BUILDINGS AS A NEW SUSTAINABLE AND PROFITABLE BUSINESS**

J.L. Alexandre, *University of Porto-Faculty of Engineering, Porto (Portugal)*

C.T. Vila, *ENERCER Global, Leça da Palmeira (Portugal)*

A.J. Freire, *University of Porto-Faculty of Engineering, Porto (Portugal)*

### **CO 2 EMISSIONS, ENERGY AND THE GOVERNANCE OF THE COUNTRIES**

Valdir de Jesus Lameira, *INESC, Coimbra (Portugal)*

Jean E. Harris, *School of Business Administration - Capital College - The Pennsylvania State University (USA)*

Oswaldo L. G. Quelhas, *Federal Fluminense University, MSG/LATEC (Brazil)*

Roberto G. Pereira, *Federal Fluminense University, TEM/PGMEC/MSG (Brazil)*

## Coffee Break

### Session 11 (11:15-13:00)

Room "Gomes de Amorim"

**Session Type: AUTHOR'S PRESENTATION AND DIALOGUE**

**Chair:** Valdir de Jesus Lameira

#### **VALUE AND GOVERNANCE OF THE BRAZILIAN CORPORATIONS: HOW IS THE RELATIONSHIP BETWEEN THESE VARIABLES?**

Valdir de Jesus Lameira, *INESC, Coimbra (Portugal)*

Jean E. Harris, *School of Business Administration - Capital College - The Pennsylvania State University (USA)*

Oswaldo L. G. Quelhas, *Federal Fluminense University, MSG/LATEC (Brazil)*

Roberto G. Pereira, *Federal Fluminense University, TEM/PGMEC/MSG (Brazil)*  
(Author presentation)

#### **RESOURCES SELECTION FOR AGILE/VIRTUAL ENTERPRISES: PART I – MODEL FOR VALUE ANALYSIS INTEGRATION**

A. Pires, *Polytechnic Institute of Porto (Portugal)*

G. Putnik, *University of Minho, School of Engineering (Portugal)*

P. Ávila, *Polytechnic Institute of Porto (Portugal)*

Reviewer: António Ramos

Dialogue Facilitator: Hélio Castro

#### **MODEL EVALUATION FOR THE OUTSOURCING OF CORE BUSINESS PROCESS**

António Ramos, *ISEP, Porto (Portugal)*

Reviewer: António Pires

Dialogue Facilitator: Hélio Castro

#### **SUSTAINABLE DEVELOPMENT, GOVERNANCE AND CORRUPTION**

Valdir de Jesus Lameira, *INESC, Coimbra (Portugal)*

Jean E. Harris, *School of Business Administration - Capital College - The Pennsylvania State University (USA)*

Oswaldo L. G. Quelhas, *Federal Fluminense University, MSG/LATEC (Brazil)*

Roberto G. Pereira, *Federal Fluminense University, TEM/PGMEC/MSG (Brazil)*  
(Author presentation)

### Session 12 (11:15-13:00)

Room "Eça de Queirós"

**Session Type: AUTHOR'S PRESENTATION**

**Chair:** Alexandre Sottomayor

#### **HOW TO REDUCE ENERGY CONSUMPTION ON PULTRUSION**

F. J. G. Silva, *CIDEM, ISEP/ IPP, Porto (Portugal)*

F. Ferreira, *CIDEM, ISEP/ IPP, Porto (Portugal)*

C. Costa, *CIDEM, ISEP/ IPP, Porto (Portugal)*

A. C. Meira Castro, *CIGAR, ISEP/ IPP, Porto (Portugal)*

#### **OPTIMIZATION OF THE PULTRUSION PROCESS**

C. Costa, *CIDEM, ISEP/ IPP, Porto (Portugal)*

F. Ferreira, *CIDEM, ISEP/ IPP, Porto (Portugal)*

F. J. G. Silva, *CIDEM, ISEP/ IPP, Porto (Portugal)*

A. C. Meira Castro, *CIGAR, ISEP/ IPP, Porto (Portugal)*

**COMPARATIVE STUDIES ABOUT PROPERTIES OF SOME AUSTENITIC AND FERRITIC STAINLESS STEEL GRADES**

E. M. Pinho, *ISEP/ IPP, Porto (Portugal)*  
M. F. G. Andrade, *CIDEM, ISEP/ IPP, Porto (Portugal)*  
F. J. G. Silva, *CIDEM, ISEP/ IPP, Porto (Portugal)*  
J. P. Meixedo, *CIGAR, ISEP/ IPP, Porto (Portugal)*

**FIBRE-REINFORCED COMPOSITE MATERIALS: AN IMPROVEMENT IN SUSTAINABILITY**

R. D. S. G. Campilho, *Departamento de Engenharia Mecânica, Instituto Superior de Engenharia do Porto, Faculdade de Economia e Gestão, Universidade Lusófona do Porto, Porto (Portugal)*

*Lunch*

**Session 13 – Research projects presentation (14:30-15:45)**

Room “Eça de Queirós”

**Session Type: AUTHOR’S PRESENTATION**

**Chair:** Goran Putnik

**Project: UBIQUITOUS ORIENTED EMBEDDED SYSTEMS FOR GLOBALLY DISTRIBUTED FACTORIES OF MANUFACTURING ENTERPRISES**

Putnik, Goran, *University of Minho (Portugal)*  
Castro, Hélio, *University of Minho (Portugal)*  
Shah, Vaibhav, *University of Minho (Portugal)*  
Varela, Leonilde, *School of Engineering, University of Minho (Portugal)*  
Cruz-Cunha, Maria Manuela, *Polytechnic Institute of Cávado e Ave (Portugal)*  
Ferreira, Luís, *Polytechnic Institute of Cávado e Ave (Portugal)*

**MULTI-SITE PRODUCTION NETWORK INTEGRATION MODEL**

António Arrais-Castro, *Dept. Production & Systems, University of Minho (Portugal)*  
Leonilde R. Varela, *Dept. Production & Systems, University of Minho (Portugal)*  
Goran D. Putnik, *Dept. Production & Systems, University of Minho (Portugal)*

**Project: LEAN LEARNING ACADEMY: AN INNOVATIVE LEARNING CONCEPT IN ENGINEERING CURRICULA**

Ignace Martens, *Katholieke Hogeschool Sint-Lieven, Gent (Belgium)*  
Jan Colpaert, *Centre for Modelling and Simulation (CMS), Brussels (Belgium), Research Centre for Operations Management, Faculty of Business and Economics, Katholieke Universiteit Leuven, Leuven (Belgium)*  
Liesje De Boeck, *Centre for Modelling and Simulation (CMS), Brussels (Belgium), Research Centre for Operations Management, Faculty of Business and Economics, Katholieke Universiteit Leuven, Leuven (Belgium)*  
Carlos Vaz de Carvalho, *ISEP – School of Engineering, Polytechnic of Porto, Porto (Portugal)*  
Paulo Ávila, *ISEP – School of Engineering, Polytechnic of Porto, Porto (Portugal)*  
Manuel Lopes, *ISEP – School of Engineering, Polytechnic of Porto, Porto (Portugal)*  
João Bastos, *ISEP – School of Engineering, Polytechnic of Porto, Porto (Portugal)*  
Luís Fonseca, *ISEP – School of Engineering, Polytechnic of Porto, Porto (Portugal)*

**Project: DESIGN AND EVALUATION OF USER INTERFACES FOR REMOTE COLLABORATIVE CONTROL OF MANUFACTURING SYSTEMS**

Putnik, Goran, *University of Minho (Portugal)*

Vesna Spasojevic-Brkic, *University of Belgrade (Serbia)*

**RESEARCH OF THE EFFECTS OF SCALE FORMS ON READABILITY OF ANALOGUE VISUAL DISPLAYS**

Aleksandar Zunjic, *University of Belgrade (Serbia)*

Vesna Spasojevic-Brkic, *University of Belgrade (Serbia)*

Snezana Omic, *Ministry of Science and Technology, (Serbia)*

**Round Table “Industrial perspective on sustainability” (15:45-16:45)**

Room “Eça de Queirós”

**Chair:** Goran Putnik

**Closing (16:45-17:00)**

Room “Eça de Queirós”

**Chair:** Goran Putnik and Paulo Ávila

*Coffee Break*

**20:00**

Room “Póvoa de Varzim”

*Farewell dinner*