

Contents

WCC 2008 Congress	v
Contents	vii
Preface	xi
CAI Topical Session Organization	xiii
KEYNOTE SPEECH	1
The future of Computer Aided Innovation	3
N. LEON ROVIRA	
PODIUM PRESENTATIONS.....	5
Optimization with Genetic Algorithms and Splines as a way for Computer Aided Innovation: Follow up of an example with crankshafts	7
A. ALBERS, N. LEON ROVIRA, H. AGUAYO AND T. MAIER	
Methodology development of human task simulation as PLM solution related to OCRA ergonomic analysis	19
M. ANNARUMMA, M. PAPPALARDO AND A. NADDEO	

Measuring patent similarity by comparing inventions functional trees	31
G. CASCINI AND M. ZINI	
Representing and selecting problems through contradictions clouds	43
D. CAVALLUCCI, F. ROUSSELOT AND C. ZANNI	
How an ontology can infer knowledge to be used in product conceptual design	57
D. CEBRIAN-TARRASON AND R. VIDAL	
Developing DA Applications in SMEs Industrial Context	69
G. COLOMBO, D. PUGLIESE AND C. RIZZI	
Comparison of non solvable problem solving principles issued from CSP and TRIZ	83
S. DUBOIS, I. RASOVSKA AND R. DE GUIO	
Engineering Optimisation by Means of Knowledge Sharing and Reuse	95
O. KUHN, H. LIESE AND J. STJEPANDIC	
Innovation in Information Systems applied to the Shoes Retail Business ...	107
V. F. TELES AND F. J. RESTIVO	
Virtual Product Development Models: Characterization of Global Geographic Issues	119
A. J. WALKER AND J. J. COX	
POSTER PRESENTATIONS	133
DEPUIS project: Design of Environmentally-friendly Products Using Information Standards	135
A. AMATO, A. MORENO AND N. SWINDELLS	
PML, an Object Oriented Process Modeling Language	145
R. ANDERL AND J. RABLER	
Innovative PLM-based approach for collaborative design between OEM and suppliers: Case study of aeronautic industry	157
F. BELKADI, N. TROUSSIER, F. HUET, T. GIDEL, E. BONJOUR AND B. EYNARD	

Development of the ALIS IP Ontology: Merging Legal and Technical Perspectives	169
C. CEVENINI, G. CONTISSA, M. LAUKYTE, R. RIVERET AND R. RUBINO	
A systematic innovation case study: new concepts of domestic appliance drying cycle	181
S. GRAZIOSI, D. POLVERINI, P. FARALDI AND F. MANDORLI	
Towards a Framework for Collaborative Innovation	193
H. DUIN, J. JASKOV, A. HESMER AND K.-D. THOBEN	
Communication and Creative Thinking in Agile Software Development ...	205
B. CRAWFORD, C. LEÓN DE LA BARRA AND P. LETELIER	
Product Lifestyle Design: Innovation for Sustainability	217
R. C. MICHELINI AND R. P. RAZZOLI	
Web-based Platform for Computer Aided Innovation: Combining Innovation and Product Lifecycle Management	229
N. DÖRR, E. BEHNKEN AND T. MÜLLER-PROTHMANN	
A Conceptual Framework of the Cooperative Analyses in Computer-Aided Engineering	239
MIN-HWAN OK AND TAE-SOO KWON	
TRIZ-Based Patent Investigation by Evaluating Inventiveness	247
D. REGAZZONI AND R. NANI	