

20th IFIP World Computer Congress

Milano, Italy 7-10 September 2008

WG5.4 Topical Session on Computer-Aided Innovation - CAI

Integration of CAI systems in the Product Development cycle



Programme

Tuesday, September 9 th 2008	
14.00-16.00	<p>CAI Opening session: G. Cascini, U. Cugini, C. Rizzi</p> <p>Chair: U. Cugini</p> <p>Open Discussion: The role of computers in Innovation-related activities</p> <ul style="list-style-type: none">- establishing the differences between innovation, invention and optimization- identifying the requirements for CAI systems- how to integrate CAI systems in the Product Cycle- how to link CAI tools with existing PLM systems- how to identify and create collaboration opportunities with other IFIP WGs
16.00-16.30	Coffee Break
16.30-18.00	<p>Chair: N. Leon</p> <p>Representing and selecting problems through contradictions clouds <i>D. Cavallucci, F. Rousselot, C. Zanni</i></p> <p>How an ontology can infer knowledge to be used in product conceptual design <i>D. Cebrian-Tarrason, R. Vildal</i></p> <p>Virtual Product Development Models: Characterization of Global Geographic Issues <i>A.J. Walker, J.J. Cox</i></p> <p>Methodology development of human task simulation as PLM solution related to OCRA ergonomic analysis <i>M. Annarumma, M. Pappalardo, A. Naddeo</i></p>
Wednesday, September 10 th 2008	
09.00-10.30	<p>Chair: R. Vidal</p> <p>Innovation in Information Systems applied to the Shoes Retail Business V. F. Teles, F.J. Restivo</p> <p>Measuring patent similarity by comparing inventions functional trees G. Cascini, M. Zini</p> <p>Comparison of non solvable problem solving principles issued from CSP and TRIZ S. Dubois, I. Rasovska, R. De Guio</p>



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10.30-11.00	Coffee break
11.00-13.30	<p>Chair: R. De Guio</p> <p>Invited Speech:</p> <p>The future of Computer Aided Innovation <i>N. Leon-Rovira</i></p> <p>Poster Session</p>
13.30-14.30	Lunch
14.30-15.30	<p>Chair: C. Rizzi</p> <p>Optimization with Genetic Algorithms and Splines as a way for Computer Aided Innovation: follow up of an example with crankshaft <i>A. Albers, N. Leon-Rovira, H. Aguayo, T. Maier</i></p> <p>Developing DA Applications in SMEs Industrial Context <i>G. Colombo, D. Pugliese, C. Rizzi</i></p> <p>Engineering Optimisation by Means of Knowledge Sharing and Reuse <i>O. Kuhn, H. Liese, J. Stjepandic</i></p> <p>Posters:</p> <p>DEPUIS project: Design of Environmentally-friendly Products Using Information Standards <i>A. Amato, A. Moreno, N. Swindells</i></p> <p>PML, an Object Oriented Process Modeling Language <i>R. Anderl, J. Rassler</i></p> <p>Innovative PLM-based approach for collaborative design between OEM and suppliers: Case study of aeronautic industry <i>F. Belkadi, N. Troussier, F. Huet, T. Gidel, E. Bonjour, B. Eynard</i></p> <p>Development of the ALIS IP Ontology: Merging Legal and Technical Perspective <i>C. Cevenini, G. COnTissa, M. Laukyte, R. Riveret, R. Rubino</i></p> <p>Communication and Creative Thinking in Agile Software Development <i>B. Crawford, C. Leon de la Barra, P. Letelier</i></p> <p>Web-based Platform for Computer Aided Innovation <i>N. Doer, E. Behnken, T. Mueller-Prothmann</i></p> <p>Towards a Framework for Collaborative Innovation <i>H. Duin, J. Jaskow, A. Hesmer, K. D. Thoben</i></p> <p>A systematic innovation case study: new concepts of domestic appliance drying cycle <i>S. Graziosi, D. Polverini, P. Faraldi, F. Mandorli</i></p> <p>Product Lifestyle Design: Innovation for Sustainability <i>R. C. Michelini, R.P. Razzoli</i></p> <p>A Conceptual Framework of the Cooperative Analyses in Computer-Aided Engineering <i>Min-Hwan Ok, Tae-Soo Kwon</i></p> <p>TRIZ-Based Patent Investigation by Evaluating Inventiveness <i>D. Regazzoni, R. Nani</i></p>