

3rd Workshop on Challenges in Collaborative Engineering CCE05

Accompanying IEEE Workshop DDECS'05
Sopron, Hungary, 13th-15th April, 2005

More information:

<http://www.ecolleg.org/CCE05/>

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CALL FOR PAPERS

- The Knowledge Perspective in Collaborative Engineering

CCE'05 is the 3rd event in a series of workshops dedicated to industrial practices and new technologies for collaborative engineering. Collaborative Engineering aims at providing concepts, technologies and solutions for product development in dispersed engineering teams. The increased industrial demand for this innovative approach is based on the fact that networked organization structures are common practice in numerous industry sectors, like automobile, aerospace, electronics or construction. Collaboration has become a key issue for agile and flexible engineering processes.

The next CCE workshop will focus on the knowledge perspective of collaborative engineering. Typical application areas for industrial collaborative engineering are knowledge-intensive tasks. Knowledge sharing, collaborative knowledge creation, knowledge supply or organizational learning are important elements for value creation and successful collaborations. In this area, we see a number of challenges and unsolved problems from the industrial perspective, including:

- **technical aspects:** knowledge sharing in collaborative engineering requires sophisticated infrastructures and applications, including engineering environments, knowledge management systems and groupware tools. How to integrate and orchestrate these different components?
- **social aspects:** collaboration and knowledge sharing are no inherent characteristic of human beings. But they are a precondition for joint value creation. How to prepare, qualify and motivate group workers for knowledge sharing within collaborations?
- **organizational aspects:** Not only organization structures and engineering processes should be prepared for collaborations. Even company culture and corporate learning should be developed towards knowledge sharing and collaborating. How to implement this organizational learning?
- **economic aspects:** collaborative engineering and knowledge sharing promise to create substantial benefits for businesses. How to evaluate, measure and preserve these effects?

This workshop aims at presenting concepts, technologies, and solutions for collaborative engineering in an industrial context. Researchers, software developers and end users are invited to contribute to the discussion by presenting application problems, giving experience reports, or by introducing concepts, methods, and software solutions. Priority will be given to contributions focusing on the knowledge perspective of collaborative engineering.

TOPICS

- * best practices in knowledge sharing and distributed engineering work
- * social aspects of collaboration teams
- * architectures and technologies for knowledge sharing solutions
- * organizational learning and collaborative engineering
- * integration of knowledge management, groupware and product development
- * use of enterprise models
- * knowledge supply and information logistic support
- * coordination support for distributed engineering teams
- * web-based electronic design environments
- * middleware for internet-based solutions
- * systems for the integration of geographically distributed tools and applications
- * standards for exchange formats/protocols
- * legal, security and IP aspects and concepts

INFORMATION FOR AUTHORS

Prospective authors are invited to submit extended abstracts or full papers in English language presenting original research. Papers should be submitted electronically. Please send the PostScript or PDF file of your submission to: Gianni@lii.unim.it and Kurt.sandkuhl@ing.hj.se. All accepted papers will be included in the two step publishing process: At the workshop, one-page abstracts of each paper will be made available. After the workshop, post-workshop proceedings will be prepared with the publisher of the DDECS'05 proceedings. Please check the workshops web-site for formatting instructions.

Important dates:

Extended Abstract / Full paper due: January 31, 2005
Notification of acceptance: March 8, 2005
One-page abstract due: March 28, 2005
Camera-ready final papers due: May 16, 2005