

2nd Workshop on Challenges in Collaborative Engineering CCE04

More information:

<http://www.ecolleg.org/CCE04/>

Accompanying IEEE Workshop DDECS'04

Tatranska Lomnica, Slovakia, 18th-21st April, 2004

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CALL FOR PAPERS

- *The Integration Challenge in Industrial Collaborative Engineering*

CCE'04 is the 2nd 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 integration challenge in industrial collaborative engineering. Although system integration and organizational integration have been subject to research in computer science and economic sciences since more than a decade, we still see a number of unsolved problems from the industrial perspective, including:

- **Application integration:** groupware tools supporting communication and cooperation within engineering teams co-exist in most distributed engineering teams without a sufficient integration. How can new technologies like web services or middleware contribute to closing this gap?

- **Knowledge integration:** to reach the same understanding of technical terms and to reach the same level of awareness for existing knowledge is a non-trivial task in distributed engineering teams. Especially in newly formed teams, this lack of integration can lead to a serious decline in productivity. How can semantic web technologies contribute to avoid these problems?

- **Process integration:** product development projects usually include various task areas, like engineering, quality assurance or controlling. Additionally, modern enterprises also strive for continuous improvement and corporate learning, which has to be integrated into the development projects. How can approaches like Enterprise Modeling contribute to this challenge?

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 integration challenges in collaborative engineering.

TOPICS

- * best practices in distributed engineering work
- * coordination support for distributed engineering teams
- * architectures and technologies for application integration
- * integration of groupware and product development environments
- * use of enterprise models or active knowledge models
- * knowledge supply and information logistic support
- * distributed workflow and process management
- * security issues and concepts
- * 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

INFORMATION FOR AUTHORS

Prospective authors are invited to submit extended abstracts or full papers in English presenting original research. Papers should be submitted electronically. Please send the PostScript or PDF file of your submission to: Kurt.sandkuhl@ing.hj.se and tjk@ecs.soton.ac.uk. Submissions in any other document format cannot be accepted. All accepted papers will be included in the proceedings. We are planning to publish the proceedings with a well-known German publishing house.

Important dates:

Extended Abstract / Full paper due: **February 2, 2004 (Extended Deadline!)**

Notification of acceptance: March 8, 2004

Camera-ready final papers due: March 29, 2004