

CALL FOR PAPERS

Session on

"Work in Progress"

IN CONNECTION WITH

33rd EUROMICRO Conference on Software Engineering and Advanced Applications 2007/
10th EUROMICRO Conference on Digital Systems Design 2007
combined conference event, Luebeck (Germany), August 27 – 31, 2007.

SESSION CO-CHAIRS: E. Grosspietsch, K. Kloeckner

The 33rd EUROMICRO Conference on Software Engineering and Advanced Applications and the 10th EUROMICRO Conference on Digital Systems Design are organizing a common Special Session to present WORK in PROGRESS aimed to authors that have not yet attained final and complete results in their research.

Topics of interest include (but are not limited to)

Digital Systems Design:

- Processor and memory architectures: arithmetic and logic units; co-processors; pipelining; superscalar processors; cache memories; memory management units; low-power issues
- Special architectures: DSP; graphics and image processors; custom computing machines; processing arrays; FPGAs; reconfigurable computing structures
- Specification and modelling: (hardware/software) specification and modelling; system and hardware design languages; component modelling; power and timing issues
- Validation: simulation; emulation; prototyping and testing at the system, register-transfer and logic levels; multilevel simulation; hardware/software co-simulation; hardware/software co-verification
- Synthesis: system, hardware/software, behavioural, register/transfer, and logic synthesis; design for low power, speed, and testability; system, hardware/software, and logic partitioning; design of asynchronous systems
- System-on-chip: platform-based design; megacell compilation; deep sub-micron design issues; signal integrity; technology aware high-level design tools; intellectual property; design reuse

Multimedia and Telecommunications:

- Multimedia systems: Operating systems, protocols, QoS support, real-time systems, databases, servers, personal appliances

- Multimedia processing and coding: Hardware for coding and processing, compression, content analysis, content-based retrieval, audio/image/video processing, animation, virtual reality, presentation control
- Telecommunications: Issues with special emphasis on multimedia support such as: mobility, security, network management, capacity planning, architectures, middleware, web computing services guarantees, charging and pricing, legal aspects
- Web computing: Cooperative information systems, specification and implementation of groupware systems, groupware and workflow, designing and implementing collaborative applications, building collaborative applications with JAVA, virtual communities, community networks
- Tools and applications: applications in consumer electronics, internet services provision, entertainment, education, health care, biomedicine, telemedicine, manufacturing, command and control, etc.

Software Process and Product Improvement:

- Software process assessment and improvement
- Organisational and business views to process improvement
- Quantitative models for development processes and products
- Distributed software development and virtual organisations
- Process and product improvement for e-business application engineering
- Use and usefulness of quality standards for software products and processes
- Approaches for modelling and enacting software processes
- Lightweight and flexible approaches
- Processes for component-based software development
- Verification and validation of software products
- Approaches improving dependability of software systems
- Industry best practice experiences and case studies in above areas

Component-based Software Engineering:

- Component Models
- Marketing Issues
- Component Specification
- Component Certification
- Components and Frameworks
- COTS (Commercial off the shelf)
- Components and Reuse
- Component Development Processes
- Component-based Architecture
- Deployment and Adaptation
- Software Product-line Approach
- Design, Implementation, Testing
- Components for Real-time Systems
- Component Configuration Management
- Metrics
- Case Studies

Submission of papers: authors intending to participate in the session should submit an extended abstract (maximum 2 pages, MS Word or PDF file) about their work to both Session Co-Chairs,

Erwin Grosspietsch (Email: karl-erwin.grosspietsch@online.de) and
Konrad Kloeckner (Email: konrad.kloeckner@fit.fraunhofer.de)
no later than June 4, 2007.

Accepted submissions will be published in a separate "Work in Progress" proceedings with own ISBN number, and are to be presented in the session by short presentations of 10 minutes.

General information about the SEAA/DSD 2007 conference event is available under www.euromicro.org/Events.php

IMPORTANT DATES

Closing date for submission: June 4, 2007

Acceptance notification: June 12, 2007

Camera-ready version: June 25, 2007

(paper layout according to standard IEEE layout rules; details about that will be supplied together with the acceptance notification)