

**Second IEEE International Workshop on
Software Engineering Challenges in the Automotive Domain
SECAD 2008**

**In conjunction with COMPSAC 2008
Turku (Finland), July 28 – August 1, 2008**



CALL FOR CONTRIBUTIONS

Increasing competition among car makers demands for more and more basic and sophisticated functions, ranging from car control and passenger comfort to continuous information exchange between vehicles and their environment. This enormously increases the relevance of the on-board software, which is more and more entrusted with mediating the interaction between the driver and the automobile. Although Software Engineering as a body of knowledge is now probably mature enough to meet these needs, much work is still to be done to have car makers adopting the best acquisition and development processes to integrate state-of-the-art technical solutions. While manufacturers get into competition with each other for better and better final products, technology suppliers also compete to gain as many good customers as they can. This creates an evolving scenario where technology and strategy quickly alternate their leading role in determining the best solutions. On the technological side, interest initially focused on product aspects evolved into a situation where lifecycle processes have gained much more attention, which is reverting back again to products, as more car-control and car-information system functions are proposed not only to satisfy market requests, but also to introduce surprising innovations. Software and software technology is always at the basis of this evolution, in such a way that progress in automotive, yet driven by economical forces, is providing the most interesting case studies for researchers.

Selected experts worldwide, representing all the involved actors (car makers, technology suppliers, researchers, end-users) are invited to present their position papers and discuss, in interactive panels, the impact of software engineering in automotive technology, processes & business.

The following list is intended as an open-ended set of workshop topics:

- Automotive Software and Software Architectures
- Safety and Security Impact on Automotive Software
- Model-based Automotive Software Engineering
- Automotive Software Certification
- Software Process Establishment, Assessment and Improvement in Automotive
- Automotive Infotainment Applications
- Modelling Process-Product Relationships in Automotive Software
- Different Roles of OEMs and Suppliers in Managing Software Projects in Automotive
- Tools for Process Support
- Software Product Lines in Automotive
- Mechatronic Systems for Human Safety and Comfort
- Role of Software Engineering Standards in Automotive

Papers must be submitted electronically via the SECAD 2008 Submission Page (<http://rs.cs.iastate.edu/COMPSAC2008Workshops/SECAD2008>). Please follow the instructions posted on the web site. The format of submitted papers should follow the guidelines for IEEE conference proceedings. Original papers will be considered. All submitted papers will be reviewed by the program committee according to their originality, relevance, correctness and presentation. Authors are encouraged to present position papers on practical studies and experiments, critiques of existing work, emerging issues, and novel ideas under development. Contribution may include:

- Full research papers (max 6 pages, IEEE format)
- Short papers – research-in-progress, industrial experience, problem description (max 4 pages)
- Position papers – (max 2 pages)

Accepted papers will be published in the Workshop Proceedings of COMPSAC 2008 Conference Proceedings.

Program Committee

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Workshop Organization

- A. Coco, CNR, Italy
- G. Trentanni, CNR, Italy

Important Dates

24Feb08: *Abstract due*

01Mar08: *Paper due*

30Mar08: *Acceptance notification*

30Apr08: *Camera ready*

COMPSAC 2008 website:

<http://conferences.computer.org/compsac/2008/>

SECAD Workshop website:

<http://conferences.computer.org/compsac/2008/workshops/SECAD2008.html>