CALL FOR PAPERS

FORMALIZING AND AUTOMATING THE SOFTWARE PROCESS

MONTEREY, CALIFORNIA, USA 30 March-2 April 1987

Theme: Over the last decade, two important myths have gradually been discarded: that the waterfall model describes the software lifecycle and that code is the only product of that cycle. Significant systems arise by a evolutionary process rather than by implementing a carefully constructed specification in a single sequence of development phases. Code defines execution but provides an inadequate basis for understanding, and hence, maintaining and/or evolving, the implemented system. These insights have shifted attention toward paradigms which recognize software development as an iterative design (development) process and techniques for recording the process itself to document and understand the resulting implementation. Formalizing the intellectual activity provides the basis for a new generation of development tools which automate and/or effectively support portions of the design process.

Objectives: The main objective of the conference will be presentation and discussion of progress in formalizing and automating the software process through provision of better models, methods, and tools, and identification of critical issues to be addressed. A secondary objective is to broaden participation beyond traditional Software Engineering to include the Artificial Intelligence and Database technologies needed to model, store, manipulate, access, reason about, and automate portions of the software process. The final objective is to provide wider access to the best work in this expanded field by republicating outstanding papers, summarizing important specialized workshops, and presenting summaries of recent advances in particular areas.

Original Papers: Authors are encouraged to submit papers that directly address the formalization and automation of the software process. Theoretical papers should indicate applicability. Papers about new developments should separate achievement from plans and evaluate usage. Papers reporting practical experience should include sound empirical evidence. Authors should be advised that conference time allocated to the newly incorporated workshop summaries, "Recent Advances In", and republicated outstanding papers, will substantially reduce the number of accepted papers.

Tools Fair: A Software Tools Fair will be held in parallel with the conference to provide conference attendees with information about current software tools. Both experimental and commercial software will be demonstrated. In addition, the conference will include a special, separate track featuring presentation and demonstration of tools selected by the tools fair committee. Those interested in exhibiting in the tools fair, and especially authors interested in presenting a paper describing practice and experience with a particular tool in conjunction with a demonstration, should contact one of the Tools Fair chairmen.

Submission of Papers: Four copies (in English) should be submitted by 1 September 1986 to either Program Chair. Papers should be no longer than 6000 words. Full-page figures should be counted as 300 words. The paper should include a short abstract and a list of keywords indicating subject classification. Notification of acceptance will be sent by 1 December 1986. Camera-ready copy of the final version will be due 1 February 1987.

Further Information: For further information and/or a copy of the advance program when available, write to 9ICSE, c/o IEEE Computer Society, 1730 Massachusetts Ave., N.W., Washington, D.C. 20036 USA.

IMPORTANT DATES

Submission Deadline: September 1, 1986
Acceptance Notification: December 1, 1986
Final Versions Due: February 1, 1987

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