15 YEARS OF SOFTWARE ENGINEERING

The term "Software Engineering" was first used 15 years ago. It was invented when it had become evident that the cost-effective development of reliable software would ultimately depend on the successful creation of a new engineering discipline. In the last 15 years new methods have been invented and evaluated, and our understanding of the problems to be solved in the future has deepened. The Seventh International Conference on Software Engineering will focus on the results of the last 15 years, on the state of this new engineering discipline, and what to expect of it in the future.

RESEARCH, DEVELOPMENT, AND PRACTICE

The Conference will include papers on practice and experience with different software engineering tools and methods as well as advanced development and research papers. Different criteria will be used for evaluating these different classes of papers and, in keeping with the conference theme, the practice and experience aspect of the conference will be expanded.

PANEL DEBATES

Proposals for panel debates are also solicited. The proposals should describe a hypothesis or resolution and include the names of the participants who will take the pro and con positions on the topic. Examples of debate topics include "Resolved: ADA is a good programming language."

TOOLS FAIR

Concurrent with the Conference, a Tools Fair will be held. Software tools, both experimental and commercial, will be demonstrated. Authors of papers describing practice and experience with particular tools should write to the Tools Fair Chairman if they are also interested in demonstrating the tool. For information contact the Tools Fair Chairman: Dr. Leon G. Stucki, Tools Fair Chairman, P.O. Box 639, Silver Spring, Maryland, 20901, U.S.A.

SUBMISSION OF PAPERS

Five copies (in English) should be submitted by July 1, 1983. Papers should be no longer than 6000 words. Full page figures should be counted as 300 words and included in this limit. A list of appropriate key words should be included to facilitate proper subject identification and classification. The paper should also have a short abstract. Notification of acceptance will be sent by November 15, 1983. Camera ready copy of the final version is due January 16, 1984.

FURTHER INFORMATION

For further information and/or a copy of the advance program when available, write to: SIGSOFT, c/o IEEE Computer Society, P.O. Box 639, Silver Spring, MD 20901. (301) 589-8142; TWX: 7108250437 ieeeecomp.
CALL FOR PAPERS

Symposium on Application and Assessment of Automated Tools for Software Development

November 1, 2, and 3, 1983
Greater San Francisco Bay Area

Sponsored by: IEEE COMPUTER SOCIETY

In Cooperation with: SIGSOFT

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The Symposium will focus on assessments of tools supporting the software development process, with the aim of contributing to the understanding of tool roles and alternatives. The goal of the symposium is to establish and benchmark the state of the art in automation of software development.

Papers most appropriate to the symposium are studies of existing tools automating some task in software design, analysis, implementation, testing, or maintenance. A tool study might include a description of the task automated, a presentation of the basic concepts and techniques of the tool, and an in-depth case study of tool usage and effectiveness. The latter should connect, when feasible, specific results to specific characteristics of the tool.

Topics for papers may include, but are not limited to: 1. Specification and design tools; 2. Prototyping tools; 3. Program generators; 4. Program analysis tools; 5. Test case generators; 6. Verification and validation tools (applicable to real programs and real programming languages).

Software vendors, computer systems vendors, research laboratories, and university researchers are encouraged to submit papers. Papers authored jointly by tool developers and users are especially welcome.

The deadline for submission of papers is June 30, 1983. Authors will be notified of acceptance not later than September 9, 1983. Papers selected for presentation will be published in a proceedings to be distributed by ACM SIGSOFT and IEEE Computer Society.

Five copies of the full paper should be transmitted, to arrive not later than June 30, 1983, to:

J. C. Browne
Department of Computer Sciences
The University of Texas at Austin
Austin, TX 78712