

C. Sledge (Ed.)

# Software Engineering Education

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## Preface

The Sixth SEI Conference on Software Engineering Education was held in San Diego, California, on October 5 to 7, 1992. This annual conference is sponsored by the Products Program of the Software Engineering Institute, a federally funded research and development center of the U.S. Department of Defense. For the last two years, it has also been held in conjunction with the Association for Computing Machinery and the IEEE Computer Society. The conference is a forum for discussion of software engineering education and training among members of the academic, industry, and government communities. This year's conference theme was "putting the 'engineering' into software engineering." You will find papers in this proceedings that reflect this theme, addressing various aspects of applying the principles and methods of traditional engineering disciplines to software engineering.

The 24 papers, 5 panels, and 1 tutorial were selected for the conference by a program committee consisting of the following:

Maribeth B. Carpenter, *Software Engineering Institute*

Neal S. Coulter, *Florida Atlantic University*

Gary Ford, *Software Engineering Institute*

Chris Gustafson, *Lockheed*

Norman E. Gibbs, *Software Engineering Institute*

Nancy R. Mead, *Software Engineering Institute*

Keith R. Pierce, *University of Minnesota, Duluth*

Anneliese von Mayrhauser, *Colorado State University*

In addition to the above people, the following were referees:

Mark A. Ardis, Jim Babcock, F. Terry Baker, Marilyn Bates, Daniel L. Berry, James Bieman, A. Winsor Brown, Frank Calliss, Bradley D. Carter, Lynn Carter, Charles Collins, Jed Coxon, Joseph F. Delgado, Jorge Diaz-Herrera, Erin Dixon, Robert Doherty, Merlin Dorfman, Frank A. Etlinger, Eduardo Fernandez, Frank Friedman, David Garlan, Harvey K. Hallman, Robert L. Hedges, Daniel Hocking, Theresa Homisak, James Hooper, Nick Kamenoff, Elliot Koffman, Robert Korfhage, Herb Krasner, Patricia K. Lawlis, David Lefkovitz, Michael J. Lutz, Barbara Meyers, John Miklos, Loretta Moore, J. Fernando Naveda, Kurt Olender, Mike Overstreet, Cherri Pancake, Bernard Rackmales, Dennis Ray, Jerry Sandvos,

Raj Tewari, Richard Thayer, Frances L. Van Scoy, Judy Vernick, Bryant York, John Werth, Laurie Werth.

This year marks the establishment of an Industry-University Initiative for Software Engineering Education. The program committee has formed this initiative as a catalyst for bringing together university educators and nearby industry and government organizations. We encourage industry and government to sponsor a faculty member's participation in the CSEE, with the hope of stimulating further collaboration and interest in understanding one another's needs. At the time these proceedings went to press, we had early commitments from Bell Northern Research and from Motorola, Inc., Radio Products Group. We gratefully acknowledge the support of these organizations and look forward to the expansion of this initiative in the next few months and its continuation at CSEE '93 and beyond.

As is usual with an undertaking of this size and scope, nothing would have been accomplished without an excellent support staff. The level of success is due to the efforts of Mary Ellen Rizzo, more than anyone else, for her tireless work in handling administrative matters, including tracking papers, referees, and final manuscripts. Mary Rose Serafini and Bernadette Chorle kept the budget and provided continuity. The expert advice and support of Helen Joyce, Wendy Rossi, and others in the Events group made it possible for this conference to run so smoothly. My sincere thanks to them, the program committee, the reviewers, and all who have contributed to the conference.

Pittsburgh, Pennsylvania  
June 1992

Carol A. Sledge  
Conference Chair, CSEE '92

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