

# Lecture Notes in Computer Science

Edited by G. Goos and J. Hartmanis

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Lionel E. Deimel (Ed.)



## Software Engineering Education

SEI Conference 1990  
Pittsburgh, Pennsylvania, USA, April 2–3, 1990  
Proceedings

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Springer-Verlag

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CR Subject Classification (1987): D.2, K.3.2

ISBN 0-387-97274-9 Springer-Verlag New York Berlin Heidelberg

ISBN 3-540-97274-9 Springer-Verlag Berlin Heidelberg New York

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Printed in Germany

Printing and binding: Druckhaus Beltz, Hemsbach/Bergstr.  
2145/3140-543210 – Printed on acid-free paper

## Preface

This volume is the proceedings of *CSEE '90*, the 4th *SEI Conference on Software Engineering Education*, held in Pittsburgh, Pennsylvania April 2 and 3, 1990. This annual conference is sponsored by the Education Program of the Software Engineering Institute (SEI), a federally funded research and development center sponsored by the U.S. Department of Defense and operated by Carnegie Mellon University. The conference provides a forum for discussion of software engineering education and training among members of the academic, industry, and government communities.

The 12 papers chosen for presentation at *CSEE '90* were selected from 28 submitted for consideration. The authors of several papers describing particular graduate programs were asked to participate in a panel on graduate programs in software engineering. Brief descriptions of their programs are also included here, as are position papers by members of a panel on industry-university cooperation and an abstract of the keynote address by Professor David Gries.

Selection of papers was done by a Program Committee from the SEI:

Mark Ardis  
Maribeth Carpenter  
Gary Ford  
Harvey Hallman  
James Tomayko

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

Len Bass, *SEI*  
Judy Bamberger, *SEI*  
Daniel Berry, *Technion*  
Richard Fairley, *George Mason University*  
Robert Firth, *SEI*  
Gretchen Forbes, *Digital Equipment Corp.*  
William Frakes, *Software Productivity Consortium*  
Norman Gibbs, *SEI*  
John Gilligan, *U.S. Air Force*  
Robert Goldberg, *IBM Corp.*  
John Knight, *University of Virginia*  
Jeffrey Lasky, *Rochester Institute of Technology*  
Everald Mills, *Seattle University*  
John Musa, *AT&T Bell Laboratories*  
George Smith, *Motorola Inc.*  
Scott Stevens, *SEI*

Steven Wartik, *Software Productivity Consortium*  
Nelson Weiderman, *SEI*  
Richard Weis, *University of Hawaii, Hilo*  
Robert Winner, *Institute for Defense Analyses*

I would like to express my thanks to the Program Committee and referees, and to Angela Wilkerson and especially Mary Rose Serafini, who helped with administrative details and who kept this whole project on schedule.

Lionel E. Deimel  
*CSEE '90* Program Chairman

*Pittsburgh, Pennsylvania*  
*December 1989*

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George Sanders, Motorola Inc.*