

Editor's Note

I would like to take this opportunity to introduce and to welcome several new associate editors who have joined the Editorial Board over the past six months. These distinguished colleagues bring a variety of expertise to the board. Their biographical sketches below list their experiences and accomplishments, as well as their areas of expertise and interests. The new associate editors are: Don Batory, Mary Jean Harrold, Chris F. Kemerer, Tom Maibaum, Dino Mandrioli, David K. Notkin, Lorenzo Strigini, and Lawrence G. Votta—whose biography and photo appear in the Guest Editor's Special Section Introduction in this issue.

On behalf of the *Transactions on Software Engineering* Editorial Board and the IEEE Computer Society, I would also like to thank Carlo Ghezzi who is retiring from the board. Professor Ghezzi has served on the *TSE* Editorial Board for many years and, most recently, has served as my associate editor-in-chief. I have enjoyed sharing my editor-in-chief duties with him over the past year. During his tenure on the board, Carlo has given generously of his time and energy for the benefit of our authors, our readers, and our journal. He will be missed dearly.

Richard A. Kemmerer, Editor-in-Chief
IEEE Transactions on Software Engineering

Don Batory holds the David Bruton Centennial Professorship at The University of Texas at Austin. He received his BS and MSc degrees from Case Institute of Technology, (1975 and 1977, respectively) and a PhD from the University of Toronto (1980). He was a faculty member at the University of Florida (1981) before he joined the Department of Computer Sciences at the University of Texas (1983). Previously, he was an associate editor of *ACM Transactions on Database Systems* (1986-1992); a member of the ACM Software Systems Award Committee (1989-1993); committee chair (1992); program chair for the 1995 International Conference on Software Reuse, and the 1999 Workshop on Software Reuse. He has given numerous tutorials on product-line architectures, generators, and reuse, and is an industry-consultant on product-line architectures. Dr. Batory's research interests include product-line architectures (GenVoca Model), component-based software development, automated software development, design of extensible applications, object-oriented refactorings (e.g., tool-support for reorganizing OO applications using OO design patterns), metaprogramming, domain-specific languages, and domain modeling.



Mary Jean Harrold received the MS and PhD degrees in computer science from the University of Pittsburgh and the MS and MA degrees in mathematics from Marshall University. She is currently an associate professor in the Department of Computer and Information Science at The Ohio State University, where she leads the Aristotle Software Engineering Research Group. Her research interests include software engineering, with an emphasis on program analysis

techniques that facilitate testing and maintenance tasks. Dr. Harrold is a recipient of the National Science Foundation's Presidential Young Investigator Award. She served as program co-chair of the 1997 International Conference on Software Maintenance. She is currently serving as program chair for the 2000 ACM SIGSOFT International Symposium on Software Testing and Analysis and as program co-chair for the 2001 International Conference on Software Engineering. She is a member of the Computing Research Association's Committee on the Status of Women in Computing and serves as program director for the Computing Research Association's Distributed Mentor Project. She is a member of the IEEE Computer Society and the ACM.



Chris F. Kemerer received the BS degree in decision sciences and economics from the Wharton School at the University of Pennsylvania and the PhD degree from the Graduate School of Industrial Administration at Carnegie Mellon University. He is a David M. Roderick chair in information systems at the Katz Graduate School of Business, University of Pittsburgh. Previously, he was an associate professor at MIT's Sloan School of Management.

His research interests are in the measurement and modeling of software development for improved performance, and he has previously published articles on these topics in *Communications of the ACM*, *Computer*, *IEEE Software*, *IEEE Transactions on Software Engineering*, *Information and Software Technology*, *Information Systems Research*, *Management Science*, *Sloan Management Review*, and others. Prof. Kemerer serves or has served on the editorial board of the *Communications of the ACM*, *Information Systems Research*, the *Journal of Organizational Computing*, the *Journal of Software Quality*, and *MIS Quarterly*. He is currently the departmental editor for information systems at Management Science.



Tom Maibaum obtained a BSc degree in mathematics from the University of Toronto in 1970 and a PhD degree from the University of London in 1974. Dr. Maibaum was recently appointed as professor of the Foundations of Software Engineering in the Department of Computer Science at King's College London, part of the University of London. He had previously spent 18 years in the Department of Computing at Imperial College of Science

Technology and Medicine, another part of the University of London. He was dean of the department from 1989-1997. Earlier, he had spent eight years as a postdoctoral fellow and assistant professor in the Department of Computer Science at the University of Waterloo, not a part of the University of London! He is a chartered engineer and a fellow of the Institution of Electrical Engineers and of the Royal Society of Arts. He is an honorary professor of the Departamento de Informática of the Pontifícia Universidade Católica do Rio de Janeiro and has held several visiting positions there and at the Departamento de Informática de Universidade de Lisboa. He has served on the programme committees of numerous conferences in the areas of software engineering, formal methods, and theoretical computer science. He is (associate) editor of several journals and is co-editor of the *Handbook of Logic in Computer Science* published by OUP. His academic interests include the theory and metatheory of specification, formalization of object oriented concepts and methods, reactive and real-time systems, the use of nonclassical logics (including deontic logic) in software engineering, and the methodological/philosophical foundations of software engineering. His personal interests include opera, music enjoying good food and wine and conspiring with colleagues to organize meetings so as to facilitate visits to good restaurants, the opera, and good CD shops.



Dino Mandrioli graduated in electrical engineering from the Politecnico di Milano (1972) and in mathematics at the Università Statale di Milano (1976). He has been assistant and associate professor at the Politecnico di Milano (1976-1980), and professor at the Università di Udine from (1981-1983). Since then, he is professor of computer science at the Politecnico di Milano. He has also been a visiting scholar at the University of California at Los Angeles, at the

University of California at Santa Barbara, at Hewlett Packard Research Laboratories in Palo Alto, and at the Ecole Polytechnique Federal of Lausanne, France. Mandrioli's research interests include theoretical computer science and software engineering, with particular reference to specification languages and environments, formal methods, and real time systems. He is mainly motivated by applying research results in the practice of industrial projects and by promoting technology transfer. He has published over 70 scientific papers and is a co-author of several books, including *Theoretical Foundations of Computer Science*, *Fundamentals of Software Engineering*, *The Art and Craft of Computing*. Mandrioli serves as a reviewer and as an editor for international journals and has participated on program committees of several international conferences. He is a member of the IEEE Computer Society and of the ACM.



David K. Notkin is a professor in the Department of Computer Science and Engineering at the University of Washington. Before joining the faculty in 1984, he received his PhD degree from Carnegie Mellon University (1984) and his ScB degree at Brown University (1977). Dr. Notkin received the National Science Foundation Presidential Young Investigator Award (1988); served as program chair of the First ACM SIGSOFT Symposium on the Foundations of

Software Engineering; served as program co-chair of the 17th International Conference on Software Engineering; chaired the steering committee of the International Conference on Software Engineering (1994-1996); and currently serves as charter associate editor of both *ACM Transactions on Software Engineering and Methodology* and the *Journal of Programming Languages*. His research interests are in software engineering in general and in software evolution in particular. Dr. Notkin is a senior member of the IEEE.



Lorenzo Strigini holds the Laurea degree (cum laude) in electronic engineering from the University of Pisa, Italy (1980). He is professor of systems engineering in the Centre for Software Reliability at City University, London, having joined in 1995. He was a researcher for the Institute for Information Processing of the National Research Council of Italy (1985-1995), (IEI-CNR), Pisa, Italy. From 1995-1997, he spent several periods as a research visitor

with the Computer Science Department at the University of California, Los Angeles, and the Bell Communication Research Laboratories in Morristown, New Jersey. His research work has addressed fault-tolerance in multiprocessor and distributed systems, protocols for high-speed networks, software fault tolerance via design diversity, software testing and software reliability assessment. He has been a principal investigator in several national and collaborative European research projects on these topics. His main current interest is defining of practical, rigorous methods for assessing the dependability of software and other systems subject to design faults, and for supporting development decisions to achieve it.

He has published ~60 papers in international journals and conferences. He is a member of the IFIP Working Group 10.4 on Dependable Computing and Fault Tolerance, of IEEE and ACM. He has served on the program committees of many international conferences. His consultancy work has included topics of fault-tolerant hardware design and software reliability assurance for critical applications, in addition to teaching short industrial courses and tutorials on software reliability and on fault-tolerant design.

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