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Software Process and Product Measurement

International Conferences IWSM 2009 and Mensura 2009
Amsterdam, The Netherlands, November 4-6, 2009
Proceedings



Springer

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Library of Congress Control Number: 2009937647

CR Subject Classification (1998): D.2, D.2.1, D.2.8, D.4.8, F.1.3, D.2.9

LNCS Sublibrary: SL 2 – Programming and Software Engineering
ISSN 0302-9743
ISBN-10 3-642-05414-5 Springer Berlin Heidelberg New York
ISBN-13 978-3-642-05414-3 Springer Berlin Heidelberg New York

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Printed in Germany

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India
Printed on acid-free paper SPIN: 12791026 06/3180 5 4 3 2 1 0

Preface

Since 1990 the International Workshop on Software Measurement (*IWSM*) has been held annually and is now in its 19th edition. The International Conference on Software Process and Product Measurement (*Mensura*) was initiated in 2006 and is now in its third edition. The editions of *IWSM/Mensura* have been combined since 2007 to foster research, practice and exchange of experiences and best practices in software processes and products measurement. The 2009 editions were held during November 4-6, 2009 in Amsterdam, organized jointly with The Netherlands Association for Software Measurement (NESMA)¹ and kindly hosted by Hogeschool van Amsterdam².

Today the pressure for more efficient software development processes delivering appropriate quality is constantly increasing. But who knows how efficient one's own current development process actually is and whether the quality of delivered products is really appropriate? Did we substantially improve with all the improvement effort spent? How can we answer all these questions if not by measuring both software processes and software products?

Software measurement is a key technology with which to manage and to control software development projects. Measurement is essential of any engineering activity, by increasing the scientific and technical knowledge for both the practice of software development and for empirical research in software technology. *IWSM/MENSURA* facilitates the exchange of software measurement experiences between theory and practice.

Software process evaluation and improvement require quantified methods and technologies. Issues such as the applicability of measures and metrics to software, the efficiency of measurement programs in industry and the theoretical foundations of software engineering have been researched in order to evaluate and improve modern software development approaches.

These proceedings are testimonies of many of the software measurement concepts developed and of their related use in industry. These proceedings are of particular interest to software engineering researchers, as well as to practitioners, in the areas of project management and quality improvement programs, for both software development and software maintenance.

This volume comprises the proceedings of *IWSM/Mensura* 2009 and consists of the final papers presented at these joint events. Each one of these papers has been thoroughly refereed and extended in order to be accepted for publication. The *IWSM/Mensura* Steering Committee is proud to have — once more — obtained the approval of Springer to publish this third edition of the joint conference proceedings in the prestigious *Lecture Notes in Computer Science*

¹ <http://www.nesma.nl/>

² <http://www.hva.nl/>

(LNCS) series. We hope to maintain this collaboration for the future editions of these joint events.

We wish to express our gratitude to the sponsors of the IWSM / Mensura 2009 for their essential contribution to the conference. We also wish to express our gratitude to the organizers of IWSM / Mensura 2009 for their tireless dedication.

November 2009

Alain Abran
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