

Preface

Welcome to Rotterdam and to the International Conference Safecom 2000, on the reliability, safety and security of critical computer applications. This already marks the 19th year of the conference, showing the undiminished interest the topic elicits from both academia and industry. Safecom has proven to be an excellent place to meet and have discussions, and we hope this trend continues this year.

People and organisations depend more and more on the functioning of computers. Whether in household equipment, telecommunication systems, office applications, banking, people movers, process control or medical systems, the often-embedded computer subsystems are meant to let the hosting system realise its intended functions. The assurance of proper functioning of computers in dependable applications is far from obvious. The millennium started with the bug and the full endorsement of the framework standard IEC 61508. The variety of dependable computer applications increases daily, and so does the variety of risks related to these applications. The assessment of these risks therefore needs reflection and possibly new approaches. This year's Safecom provides a broad mix of papers on these issues, on progress made in different application domains and on emerging challenges.

One of the special topics this year is *transport and infrastructure*. One would be hard pressed to find a better place to discuss this than in Rotterdam. The reliability, safety and security of computers is of prominent importance to Rotterdam, as a few examples illustrate. Its harbour depends on the reliable functioning of container handling systems, on the safe functioning of its radar systems, and, as of recently, on the safe and reliable functioning of the enormous storm surge barrier at Hoek van Holland.

A new topic for Safecom is *medical systems*. These progressively depend on – embedded – programmable electronic systems. Experience shows that the medical world lacks the methods for applying these systems safely and reliably. We welcome a group of people ready to discuss this topic, and hope, by doing so, to contribute to this field of applications of safe, reliable and secure systems.

Software process improvement also represents a special topic of Safecom 2000. It proved to be the most fruitful of the three in terms of submitted papers. There were many contributions from a host of countries, which had to be spread amongst different session topics.

We wish to thank the International Program Committee's members, 41 in total, for their efforts in reviewing the papers and for their valuable advice in organising this conference. We are also grateful for their contribution to distributing calls for papers and announcements. Without their help the burden of organising this conference would have been much greater.

Finally, let us once again welcome you to Rotterdam, a truly international city and home to people of many nationalities. We hope you take the time not only to enjoy this conference, but also to find your way around the city, since it surely has much to offer.

Floor Koornneef
Meine van der Meulen

<http://www.springer.com/978-3-540-41186-4>

Computer Safety, Reliability, and Security
19th International Conference, SAFECOMP 2000,
Rotterdam, The Netherlands, October 24-27, 2000
Proceedings
Koornneef, F.; Meulen, M. van der (Eds.)
2000, X, 438 p., Softcover
ISBN: 978-3-540-41186-4