
Message from the Co-Chairs

Workshop on Trusted Computer Paradigms (WTCP)

Welcome to WTCP'02! This is the first time a one-day workshop on trusted computing paradigms is being held in conjunction with ICPP. The workshop is intended as an international forum for exploring the fundamental issues and challenges underlying the research and practice of trusted computing paradigms. Principles and solutions for modeling, design, and development of interoperable trustworthiness capabilities, crosscutting application domains, platforms, and system layers constitute the focus of this workshop.

The information technology revolution has changed the way business is transacted, government operates, and national defense is conducted. Those three functions now depend on an interdependent network of critical information infrastructures. To build the secure and reliable systems required for our increasingly mobile, interconnected information-technology enabled society, research is needed to develop the large-scale information systems of the future such that they not only behave as expected, but, more importantly, continue to produce expected behavior against security breaches and hostile attacks. Moreover, we must ensure that any service disruptions that occur are infrequent, of minimal duration, manageable, and cause the least damage possible. We consider qualities, such as security, privacy, safety, reliability, and recovery as aspects of the desideratum of trustworthiness of information systems.

Trustworthiness is holistic and multidimensional. For example, the means for achieving security interact with those for performance, reliability, and safety. The challenges in building trustworthy systems are much broader and deeper than those in enforcing security alone. While extensive research has been undertaken on various aspects of trusted computing, much remains to be done covering the scientific foundation and technological basis for the development of new paradigms for an integrated and comprehensive solution to the multifaceted problem of trustworthiness.

In this inaugural year of WTCP, we are pleased to have three paper sessions, a tutorial on Trusted Computing in Telecommunications, and a panel discussion on Digital Libraries and Trusted Computing. The paper sessions focus on (1) technologies for building trusted systems, (2) secure and safe access to services and applications, and (3) cyber attack prediction and detection.

The program for this workshop is the result of the hard work of many. We would like to acknowledge our authors for their valuable contributions, our reviewers for their timely and insightful reviews, and all our committee members for their cooperation in completing the workshop program under a very tight schedule. The Workshop on Trusted Computing Paradigms is very grateful for the constant cooperation and assistance that we received from the ICPP organizers. Our thanks also go to the ICPP Workshops Organizing Committee for giving us the opportunity to organize WTCP, especially to the ICPP Workshop Chair, Prof. Stephan Olariu for his advice and encouragement.

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