

Preface

IFM 2000, the second in a series of international conferences on Integrated Formal Methods, was held at the 18th-century château of Schloss Dagstuhl, Saarland, Germany, from the 1st to the 3rd of November 2000.

The conference programme consisted of invited talks from Sir Tony Hoare FRS and Wolfram Schulte, along with 22 papers selected from 58 submissions.

Applying formal methods may involve the modelling of different aspects of a system that are expressed through different paradigms. This motivates us to research the combination of different viewpoints of a system, either by the creation of hybrid notations, by extending existing notations, by translating between notations, or by incorporating a wider perspective with the innovative use of an existing notation.

The integration of formal methods promises great benefits to systems modelling and software development. Regardless of the approach taken, however, significant issues can arise in areas such as semantic integration, the tractability of our notations, the integration of tool support, the integration of proof systems, consistency, and completeness. Issues arise equally in our conceptualisation of systems at different levels of abstraction and the development of these conceptualisations through the process of refinement.

The stated theme of IFM'99 was the integration of state-based and behavioural formalisms. For IFM 2000 this was widened, and the submitted papers have been grouped in five technical sessions, covering the linking and extending of notations, methodology, the foundation of one formalism in another, semantics, and aspects of verification and validation.

We hope that these proceedings will be of benefit both to the conference participants and to the wider community of workers in the field. The production of these proceedings would not have been possible without the invaluable help of the programme committee and external referees, and of all the contributors who submitted papers to the conference.

November 2000

Wolfgang Grieskamp
Thomas Santen
Bill Stoddart

Organization

Wolfgang Grieskamp, Technical University of Berlin, Germany
Thomas Santen, Technical University of Berlin, Germany
Bill Stoddart, University of Teesside, UK

Program Committee

Keijiro Araki (Kyushu, Japan)	Mike Hinchey (Omaha, USA)
Didier Bert (Grenoble, France)	Bernd Krieg-Brückner (Bremen, Germany)
Egon Börger (Pisa, Italy)	Michel Lemoine (Toulouse, France)
Jonathan Bowen (London, UK)	Shaoying Liu (Hiroshima, Japan)
Micheal Butler (Southampton, UK)	John McDermid (York, UK)
Jim Davies (Oxford, UK)	Dominique Méry (Nancy, France)
John Derrick (Kent, UK)	Thomas Santen (Berlin, Germany)
Jin Song Dong (Singapore)	Steve Schneider (London, UK)
Heiko Dörr (Berlin, Germany)	Wolfram Schulte (Redmond, USA)
John Fitzgerald (Newcastle, UK)	Jane Sinclair (Warwick, UK)
Andy Galloway (York, UK)	Graeme Smith (Brisbane, Australia)
Chris George (Macao)	Bill Stoddart (Teesside, UK)
Wolfgang Grieskamp (Berlin, Germany)	Kenji Taguchi (Uppsala, Sweden)
Henri Habrias (Nantes, France)	W J (Hans) Toetenel (Delft, Holland)
Susumu Hayashi (Kobe, Japan)	Heike Wehrheim (Oldenburg, Germany)
Maritta Heisel (Magdeburg, Germany)	

Additional Reviewers

Richard Banach	Dang van Hung	Mark Saaltink
Christie Bolton	Tomasz Janowski	Holger Schlingloff
Dominique Cansell	Markus Lepper	Carron Shankland
David Carrington	Liu Jing	Kim Soon-Kyeong
Marc Cavazza	Brendan Mahony	Carsten Sühl
Michael Cebulla	Stephan Merz	Ulrich Ultes-Nitsche
Steve Dunne	Michael Meyer zu Hoerste	Jacob Wieland
Carla Ferreira	Tim Mossakowski	Qiwen Xu
Dennis Furey	Steve Paynter	Hirokazu Yatsu
He Jifeng	Jean-Claude Reynaud	Shoji Yuen
Monika Heiner	Dean Rosenzweig	
Steffen Helke		