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
Egon Börger (Pisa, Italy)      (Bremen, Germany)
Jonathan Bowen (London, UK)  Michel Lemoine (Toulouse, France)
Micheal Butler (Southampton, UK) Shaoying Liu (Hiroshima, Japan)
Jim Davies (Oxford, UK)       John McDermid (York, UK)
John Derrick (Kent, UK)       Dominique Méry (Nancy, France)
Jin Song Dong (Singapore)     Thomas Santen (Berlin, Germany)
Heiko Dör (Berlin, Germany)   Steve Schneider (London, UK)
John Fitzgerald (Newcastle, UK) Wolfram Schulte (Redmond, USA)
Andy Galloway (York, UK)      Jane Sinclair (Warwick, UK)
Chris George (Macao)          Graeme Smith (Brisbane, Australia)
Wolfgang Grieskamp            Bill Stoddart (Teesside, UK)
(Berlin, Germany)             Kenji Taguchi (Uppsala, Sweden)
Henri Habrias (Nantes, France) W J (Hans) Toetenel (Delft, Holland)
Susumu Hayashi (Kobe, Japan)  Heike Wehrheim
Maritta Heisel (Magdeburg, Germany)  (Oldenburg, 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    Jacob Wieland
Carla Ferreira   zu Hoerste      Qiwen Xu
Dennis Furey     Tim Mossakowski  Hirokazu Yatsu
He Jifeng        Steve Paynter    Shoji Yuen
Monika Heiner    Jean-Claude Reynaud
Steffen Helke    Dean Rosenzweig
Integrated Formal Methods
Second International Conference, IFM 2000, Dagstuhl Castle, Germany, November 1-3, 2000 Proceedings
Grieskamp, W.; Santen, Th.; Stoddart, B. (Eds.)
2000, X, 446 p., Softcover
ISBN: 978-3-540-41196-3