Preface

This volume contains the papers presented at SEMS'15: Second Workshop on Software Engineering Methods in Spreadsheets held on May 18, 2015 in Florence, Italy, as part of the 37th International Conference on Software Engineering (ICSE). The workshop was organised by Felienne Hermans (TU Delft), Richard Paige (University of York) and Peter Sestoft (IT University of Copenhagen) as a result of their observations that significant research was taking place on spreadsheets in software engineering, and that the time was ripe for a collective meeting bringing together people from different communities - e.g., the end-user programming community, modelling community, testing and verification community, etc. A first workshop had been organised in 2014, co-located with Eusprig, in Delft, the Netherlands.

The program committee reviewed and selected 11 papers (including short papers, long papers and tools papers) for presentation during the workshop. Each paper received 3 reviews, and there was further discussion amongst the reviewers and organisers to select these papers from amongst 16 submissions.

The organisers would like to thank the ICSE'15 local organising team for their support for organising the workshop as part of ICSE; the workshop chairs were particularly helpful in coordination. As well, they would like to acknowledge use of Easychair in organising the program committee activities.

Normally, ICSE workshop proceedings are published behind a paywall, in the ACM or IEEE Digital Library. The organisers of SEMS support full open access publication of all publically funded research, and are pleased that it was possible and feasible to publish the proceedings in CEUR.

18 May 2015 Delft, York and Copenhagen Felienne Hermans Richard F. Paige Peter Sestoft

Table of Contents

Using Calculation Fragments for Spreadsheet Testing and Debugging Dietmar Jannach and Thomas Schmitz	1
Spreadsheets in an ERP environment - not what the doctor ordered	3
Business Rule Mining from Spreadsheets	5
Towards the Design and Implementation of Aspect-Oriented Programming for Spreadsheets	7
Assessment for Spreadsheets	14
Context in Spreadsheet Comprehension	21
Live-Inspection of Spreadsheets	28
Toward Reverse Engineering of VBA Based Excel Spreadsheet Applications Domenico Amalfitano, Nicola Amatucci, Vincenzo De Simone, Anna Rita Fasolino and Porfirio Tramontana	30
Structured Spreadsheet Modeling and Implementation	32
Spreadsheets for Stream Partitions and Windows	39
Enron versus EUSES: A Comparison of Two Spreadsheet Corpora	41

1 Program Committee and External Reviewers

The Program Committee was composed of a diverse group of members from seven different countries. There were 48 reviews provided for the 16 submissions that were received. We thank the following members of the SEMS 2015 Program Committee for their assistance in reviewing and discussing the papers.

- Rui Abreu, University of Porto, Portugal
- S.C. Cheung, The Hong Kong University of Science and Technology, Hong Kong
- $-\,$ Jácome Cunha, Universidade Nova de Lisboa & HASLab/INESC TEC, Portugal
- Felienne Hermans, Delft University of Technology, The Netherlands
- Birgit Hofer, Technische Universitaet Graz, Austria
- Richard Paige, University of York, UK
- Martin Pinzger, University of Klagenfurt, Austria
- Peter Sestoft, IT University of Copenhagen, Denmark
- Leif Singer, University of Victoria, Canada

Additional Reviewers

- Joao Fernandes
- Alexandre Perez