

## Welcome Message from Workshops Chair

The GI/ITG International Conference on Architecture of Computing Systems (ARCS) has over 30 years of tradition reporting high quality results in computer architecture and operating systems research. ARCS is an important forum for computer architecture research and has a tradition to include associated workshops and tutorials, both complementing the program of the conference with specific topics within the technical scope of the conference. ARCS 2016 was organized at Friedrich-Alexander University Erlangen-Nürnberg, Germany, from April 4 till April 7, 2016.

We were pleased to welcome, on the first day of the conference, five workshops and one tutorial:

- Workshop of Multi-Core Safe and Software-intensive Systems Improvement Community (FORMUS<sup>3</sup>IC)
- 3rd International Workshop on Multi-Objective Many-Core Design (MOMAC'16)
- 12th Workshop on Parallel Systems and Algorithms (PASA'16)
- 4th International Workshop on Self-optimisation in Autonomic and Organic Computing Systems (SAOS'16)
- 12th Workshop on Dependability and Fault Tolerance (VERFE'16)
- Tutorial on Massively Parallel Task-Based Programming with HPX.

Besides invited talks, all the workshops included presentations of papers selected as a result of a peer reviewing process applied to all the papers submitted. This proceedings volume consists of 24 papers selected by the workshop organizers with the help of the program committees of the respective workshops.

I would like to thank the General Chairs of ARCS 2016, Dietmar Fey, Wolfgang Schröder-Preikschat, and Jürgen Teich, for all the help and support regarding the organization of the workshops. A special thanks goes to Thilo Pionteck, the Publication Chair of ARCS 2016, for his help regarding the proceedings, and to VDE for publishing this volume with the workshops proceedings. Last but not least, I would like to thank all the workshop organizers, committee members, authors, reviewers and attendees. I hope you enjoy reading the papers included here and I also hope they contribute to further research ideas and results. Finally, we thank you for being part of the ARCS community, and we hope to welcome you in the future, as an author *and* as a workshop or tutorial organizer.

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**(ARCS'2016 Workshops/Tutorials Chair)**