Message from the EDOC Program Co-Chairs

This volume features the proceedings of the 18th International EDOC Conference that took place in Ulm, Germany, September 1-5, 2014.

The main topic of EDOC 2014 was *Utilizing Big Data for the Enterprise of the Future* and addresses the *four V's of Big Data*: (1) new ways to utilize and manage the large *volume* of data in enterprises, (2) efficient techniques for handling the *velocity* of data where large amount of data are captured in a short time frame, (3) bringing together a large *variety* of different forms of data within and across enterprises, and (4) dealing with *veracity* or uncertainty of data leading to quality and trust in collected data. The EDOC conference has developed as an international platform for leading computer science researchers, IT decision makers, enterprise architects, solution designers, and practitioners. The IEEE EDOC conference particularly features the integration and collaboration between different aspects relevant to enterprise computing, i.e., people, processes, applications, and technology.

EDOC 2014 received 83 submissions which were reviewed by at least three reviewers. After finishing the reviewing phase, the PC’s feedback was made available to the authors who were invited to take the opportunity of addressing reviewers’ comments through a short rebuttal. Following the rebuttal phase, the PC members were invited for discussing the papers and the authors’ replies. Out of all submissions, 18 were accepted as full research papers (with an acceptance rate of 22%), and 8 as short papers (with an overall acceptance rate of 31%).

Good quality papers that could not be accepted for publication in the main conference had been rolled over to EDOC 2014 workshops based on the final selection by the Workshop Chairs. A novelty of this year’s EDOC conference was the introduction of a demo track which includes the demonstration of prototypes for the next generation software products in enterprise computing. Accepted demonstrations are included in the IEEE EDOC 2014 Workshop Proceedings.

The conference program featured distinguished keynotes in the area of Big Data and Business Process Management: Wil van der Aalst (Profesor at the Technische Universiteit Eindhoven, The Netherlands), Heiko Ludwig (Manager with IBM’s Almaden Research Center in San Jose, CA, USA), and Barbara Weber (Associate Professor at the University of Innsbruck, Austria).

Thanks to many committed persons, it was possible to assemble the excellent program of presentations at EDOC 2014. First of all, we would like to thank the members of the PC board for their great work in reviewing the papers, and selecting the best scholarly submissions. We would also like to thank Manfred Reichert (University of Ulm, Germany) – the organizer and general chair of EDOC 2014 – and Nicolas Mundbrod and Rüdiger Pryss (University of Ulm, Germany) for helping out with the local organization. In addition, we are grateful to Sylvain Hallé (Université du Québec à Chicoutimi, Canada) and Dimka Karastoyanova (University of Stuttgart, Germany), the EDOC 2014 workshop chairs, as well as Walid Fdhila (University of Vienna, Austria) and Matt Selway (University of South Australia), the publicity chairs. Finally, we thank Patricia Dockhorn Costa (Federal University of Espírito Santo, Brasil) and Jens Kolb (Ulm University, Germany), the demo chairs, for their cooperation during the various stages of the call for paper, publicity and paper reviewing process.

Enjoy reading the collection of EDOC 2014 full and short papers provided in these proceedings.

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