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Preface

Software development is being revolutionized. The heavy-weight processes of the 1980s and 1990s are being replaced by light-weight, so called agile processes. Agile processes move the focus of software development back to what really matters: running software. This is only made possible by accepting that software development is a creative job done by, with, and for individual human beings. For this reason, agile software development encourages interaction, communication, and fun.

This was the focus of the Fifth International Conference on Extreme Programming and Agile Processes in Software Engineering which took place between June 6 and June 10, 2004 at the conference center in Garmisch-Partenkirchen at the foot of the Bavarian Alps near Munich, Germany. In this way the conference provided a unique forum for industry and academic professionals to discuss their needs and ideas for incorporating Extreme Programming and Agile Methodologies into their professional life under consideration of the human factor. We celebrated this year’s conference by reflecting on what we had achieved in the last half decade and we also focused on the challenges we will face in the near future.

The focus of the whole conference was on learning and interaction. We brought practitioners together in different sessions to discuss their experiences in solving software problems. XP 2004 facilitated the swapping of ideas in a number of ways, including featured talks by professionals on the cutting edge of extreme programming and agile processes, technical presentations, activity sessions, panels, posters, code camps, workshops, tutorials, and other opportunities to exchange and elaborate on new findings. XP 2004 also featured a PhD symposium for PhD students and a trainer and educator track for everybody with a vested interest in training and education.

This volume is divided into several topical sections. First you will find full papers, then the abstracts of the invited talks, followed by the abstracts of the posters and demonstrations. Then you will find the papers of the trainers’ and educators’ track, right before the abstracts of the PhD symposium papers. Next, all accepted workshops are presented, followed by the panels and the activities to conclude the book.

The papers went through a rigorous reviewing process. Each paper was reviewed by at least three program committee members and was discussed carefully among the program committee members. Of 69 papers submitted, only 23 were accepted as full papers. These papers were grouped into six categories, focusing on the following themes:

- Acceptance Testing: These papers focus on different ways of dealing with the problem of creating acceptance tests. Most of them suggest a framework that supports the customer as well as the developer to ensure the functionality of the system.
Scalability Issues: This section collects all the papers dealing with agile development in a larger setting. Some of them consider the aspect of dispersed development, others the issues that arise when outsourcing parts of the development, and others discuss the problems and solutions of diverse agile practices, such as continuous integration, in a large team.

New Insights: These papers present various new ideas in the field of agile development. Some suggest the use of agile development in a different field such as open source development and others explore new techniques such as agile specification driven development.

Refactoring: This section contains papers discussing problems and solutions within the practice of refactoring. Large refactorings is one topic, whereas refactoring in a legacy system is another one.

Social Aspects: All papers focusing on social aspects are collected in this section. The characteristics of XP teams and different roles in agile teams are one focus, employee satisfaction is another.

Practitioner Reports: Several authors report on their experiences with agile development. You will find papers about the influence of user participation in agile development, the loss and gain with adapting the agile process during development, as well as agile project controlling.

Next you will find the abstracts of the invited talks, right before we present the posters and demonstrations. Posters and demonstrations are ideal for presenting preliminary research results, experience reports, late-breaking developments, or for giving an introduction to interesting, innovative work.

Then you will find the papers and posters of the trainers’ and educators’ track. This track was aimed at industry and academic professionals who are interested in teaching and learning extreme programming and agile processes. Professionals from academia and industry were invited to discuss their needs and ideas for integrating extreme programming and agile processes into training plans and courses.

The next section presents the abstracts of the PhD symposium papers. In the symposium, students presented and discussed their research objectives, methods, and (preliminary) results.

After this, all accepted workshops are presented. The XP 2004 workshop program provided a forum for groups of participants to exchange opinions and to enhance community knowledge about research topics and real-life applications of agile processes. The workshops also provided the opportunity for representatives of the technical community to coordinate efforts and to establish collective plans of action.

In the last section you will find the descriptions of the activities and the panels. Panels and activity-sessions were lively, participatory, educational, and entertaining. They offered an interactive opportunity to share perspectives, debate opinions, and communicate best-practices.

These proceedings contain conference versions of the papers, posters, demonstrations, and panel position statements as well as the papers of the trainer and educator track and the abstracts of the PhD symposium. Besides a collection
of ideas and experiences, they represent an aspect of collective learning and understanding within a community of people who came together in Garmisch-Partenkirchen for five days in June 2004.

We would like to thank everybody who contributed to XP 2004; the authors, the workshop and activity leaders, the tutorial speakers, the panelists, those who served on the various committees, our sponsors, those who offered their experience of running previous XP conferences, the staff of the conference center in Garmisch-Partenkirchen and, last but not least, the participants.

April 2004

Jutta Eckstein
Hubert Baumeister
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XP 2004 is organized by Software und Support Verlag in cooperation with the Institut für Informatik of the Ludwig-Maximilians-Universität München.

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