Lecture Notes in Computer Science

12271

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Frontiers in Software Engineering Education

First International Workshop, FISEE 2019 Villebrumier, France, November 11–13, 2019 Invited Papers



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ISSN 0302-9743 ISSN 1611-3349 (electronic) Lecture Notes in Computer Science ISBN 978-3-030-57662-2 ISBN 978-3-030-57663-9 (eBook) https://doi.org/10.1007/978-3-030-57663-9

LNCS Sublibrary: SL2 - Programming and Software Engineering

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Preface

The First International Workshop on Frontiers in Software Engineering Education (FISEE 2019) (https://www.laser-foundation.org/fisee/fisee-2019/), held during November 11–13, 2019, at the Château de Villebrumier, France, builds on top of the experience gained with previous events run at the same place, for example DEVOPS 2018 and DEVOPS 2019. It aimed at bringing the attention to a topic of great importance and actuality for academia, namely education. The event happened before the global and massive move to online teaching, therefore the emphasis is more on "classic" education, still there is mention of "remote teaching." It can be considered a compendium on best practices in the world pre 2020; a starting point to explore the ongoing changes happening right now, while we are writing.

The event was kicked off by an outstanding introduction to the field by Professor Alexander Tormasov, Founding Rector at Innopolis University, Russia, and Chief Scientist of Parallels. The participants came from diverse organizations, with a representation of both industry and academia. This volume gathers their papers, considerably enhanced thanks to the feedback received during the conference and during two different peer-review phases. We invited an excellent Program Committee as it can be seen on the website. People from different continents allows for a broad and heterogeneous vision about teaching software engineering. This enriches perspectives, experiences, and lessons learnt at the moment of assessing the submitted works. The contributions cover a wide range of problems and are organized in different parts: Course Experience, Lessons Learnt, Curriculum and Course Design, Competitions and Workshops, Empirical Studies, Tools and Automation, and Globalization of Education. The final part Tools Workshop: Artificial and Natural Tools (ANT) contains submissions presented at a different, but related, workshop run at Innopolis University, Russia, in the context of the TOOLS 2019 conference. We realized that these works also deserve adequate dissemination in the context of education since they present research results that are achieved thanks to the work of students, therefore representing a good example of "learning by doing."

FISEE 2019 is part of a series of scientific events held at the new LASER center in Villebrumier near Montauban and Toulouse, France. Inspired by the prestigious precedent of the Dagstuhl center in Germany (the model for all such ventures), but adding its own sunny touch of accent du sud-ouest (the songful tones of Southwest France), the LASER center (http://laser-foundation.org, site of the foundation which also organizes the LASER summer school in Elba, Italy) provides a venue for high-tech events of a few days to a week in a beautiful setup in the midst of a region rich with historical, cultural, and culinary attractions. The proceedings enjoy publication in a subseries of the Springer *Lecture Notes in Computer Science*.

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We hope that you will benefit from the results of FISEE 2019 as presented in the following pages and you may join one of the future events in Villebrumier.

July 2020

Jean-Michel Bruel Alfredo Capozucca Manuel Mazzara Bertrand Meyer Alexandr Naumchev Andrey Sadovykh

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