

# Preface

The LASER Summer School, organized by the Chair of Software Engineering at ETH Zurich, covers the concepts and practice of software engineering. Since its inception in 2004, the LASER Summer School has focused on an important software engineering topic each year. This volume contains selected lecture notes from the 10th LASER Summer School on Software Engineering: Software for the Cloud and Big Data, held during September 8–14, 2013, in Elba, Italy, and the 11th LASER Summer School on Software Engineering: Leading-Edge Software Engineering, held during September 7–13, 2014, in Elba, Italy.

This book contains contributions by Sebastian Proksch, Veronika Bauer, and Gail C. Murphy on building a recommendation system; Michael Jackson on behaviors as design components of cyber-physical systems; Carlo Ghezzi, Giovanni Paolo Gibilisco, Claudio Menghi, and Marco Miglierina on a control-theoretic approach to self-adaptive systems; Sebastian Burckhardt on consistency in distributed systems; Sven Amann, Stefanie Beyer, Katja Kevic, and Harald Gall on software mining studies; and Bertrand Meyer on a theory of programs.

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