

1. Record Nr.	UNINA9910254825103321
Titolo	Present and Ulterior Software Engineering / / edited by Manuel Mazzara, Bertrand Meyer
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-67425-0
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (VIII, 225 p. 48 illus., 18 illus. in color.)
Disciplina	005.1
Soggetti	Software engineering Management information systems Programming languages (Electronic computers) Software Engineering Software Management Programming Languages, Compilers, Interpreters
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Engineering by Software: System Behaviours as Components -- What is a Procedure? -- The Evolution and Ecosystem of the Unified Modeling Language -- A Theory of Networking and its contributions to Software Engineering -- On Language Interfaces -- Moldable Tools for Object-oriented Development -- The Changing Face of Model-Driven Engineering -- Borealis Bounded Model Checker: the Coming of Age Story -- How to make visual modeling more attractive to software developers -- Intrinsic Redundancy for Reliability and Beyond -- Sound Simulation and Co-simulation of Mobile and Autonomous Robots -- Microservices: yesterday, today, and tomorrow -- Microservices: A Language-based Approach.
Sommario/riassunto	This book provides an effective overview of the state-of-the art in software engineering, with a projection of the future of the discipline. It includes 13 papers, written by leading researchers in the respective fields, on important topics like model-driven software development, programming language design, microservices, software reliability, model checking and simulation. The papers are edited and extended

versions of the presentations at the PAUSE symposium, which marked the completion of 14 years of work at the Chair of Software Engineering at ETH Zurich. In this inspiring context, some of the greatest minds in the field extensively discussed the past, present and future of software engineering. It guides readers on a voyage of discovery through the discipline of software engineering today, offering unique food for thought for researchers and professionals, and inspiring future research and development.
