

1. Record Nr.	UNISA996418293103316
Titolo	Frontiers in Software Engineering Education [[electronic resource]] : First International Workshop, FISEE 2019, Villebrumier, France, November 11–13, 2019, Invited Papers // edited by Jean-Michel Bruel, Alfredo Capozucca, Manuel Mazzara, Bertrand Meyer, Alexandr Naumchev, Andrey Sadovykh
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-57663-9
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XI, 401 p. 96 illus., 65 illus. in color.)
Collana	Programming and Software Engineering ; ; 12271
Disciplina	005.1071
Soggetti	Software engineering Computer programming Education—Data processing Computer logic Database management Software Engineering/Programming and Operating Systems Programming Techniques Computers and Education Logics and Meanings of Programs Database Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	COURSE EXPERIENCE -- Teaching Formal Methods: An Experience Report -- A review of the structure of a course on Advanced Statistics for Data Scientists -- Reflection on Teaching Formal Approaches for Software Development in Higher Education -- Experience of mixed learning strategies in teaching Lean Software Development to third year undergraduate students -- Teaching Theoretical Computer Science at Innopolis University -- LESSONS LEARNT -- Teaching Software Testing to Industrial Practitioners using Distance and Web-Based Learning -- Towards code review guideline in a Classroom -- IT education in St. Petersburg State University -- Ten Unsafe Assumptions When Teaching

Topics in Software Engineering -- CURRICULUM AND COURSE DESIGN.-
Analysing the SWECOM standard for designing a DevOps education
programme -- Teaching Logic, from a Conceptual Viewpoint -- On the
Design of a New Software Engineering Curriculum in Computer
Engineering -- Collaborative Modelling and Co-simulation in
Engineering and Computing Curricula -- COMPETITIONS AND
WORKSHOPS -- Designing Interactive Workshops for Software
Engineering Educators -- Hackathons as a Part of Software Engineering
Education: CASE in Tools Example -- Teaching Efficient Recursive
Programming and Recursion Elimination using Olympiads and Contests
Problems -- EMPIRICAL STUDIES -- Experience in monitoring EEG
signals during summer student internships -- A Study of Cooperative
Thinking -- TOOLS AND AUTOMATION -- Analysis of Development
Tool Usage in Software Engineering Classes -- Applying test-driven
development for improved feedback and automation of grading in
academic courses on software development -- GLOBALIZATION OF
EDUCATION -- Internationalization Strategy of Innopolis University --
Finding the Right Understanding: Twenty-First Century University,
Globalization and Internationalization -- TOOLS Workshop: ARTIFICIAL
AND NATURAL TOOLS (ANT) -- Automated Cross-Language Integration
Based on Formal Model of Components -- Scalable Thread-Modular
Approach for Data Race Detection -- On the development of the
compiler from C to the processor with FPGA accelerator.

Sommario/riassunto

This book constitutes invited papers from the First International Workshop on Frontiers in Software Engineering Education, FISEE 2019, which took place during November 11-13, 2019, at the Château de Villebrumier, France. The 25 papers included in this volume were considerably enhanced after the conference and during two different peer-review phases. The contributions cover a wide range of problems in teaching software engineering and are organized in the following sections: Course experience; lessons learnt; curriculum and course design; competitions and workshops; empirical studies, tools and automation; globalization of education; and learning by doing. 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. FISEE 2019 is part of a series of scientific events held at the new LASER center in Villebrumier near Montauban and Toulouse, France.
