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Teaching Formal Methods

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Teaching Formal Methods Jeremy Gibbons, Jose Nuno Oliveira, 2009-10-26 This volume contains the proceedings of TFM2009 the Second International FME Conference on Teaching Formal Methods organized by the Subgroup of Education of the Formal Methods Europe FME association The conference took place as part of the first Formal Methods Week FMWeek held in Eindhoven The Netherlands in November 2009 TFM2009 was a one day forum in which to explore the successes and failures of formal method FM education and to promote cooperative projects to further education and training in FMs The organizers gathered lecturers teachers and industrial partners to discuss their experience present their pedagogical methodologies and explore best practices Interest in FM teaching is growing TFM2009 followed in a series of events on teaching FMs which includes two BCS FACS TFM workshops Oxford in 2003 and London in 2006 the TFM2004 conference Ghent 2004 with proceedings published as Springer LNCS Volume 3294 the FM Ed 2006 workshop Hamilton co located with FM2006 FORMED Budapest at ETAPS2008 and FMET2008 Kitakyushu co located with ICFEM2008 FMs have an important role to play in the development of complex computing systems a role acknowledged in industrial standards such as IEC61508 and ISO IEC15408 and in the increasing use of precise modelling notations semantic markup languages and model driven techniques There is a growing need for software engineers who can work effectively with simple mathematical abstractions and with practical notions of inference and proof

Teaching Formal Methods Jeremy Gibbons, Jose Nuno Oliveira, 2009-10-26 This book constitutes the refereed proceedings of the TFM 2009 held in Eindhoven The Netherlands in November 2009 The 10 revised full papers presented together with an abstracts of invited talk were carefully reviewed and selected from 19 submissions The papers presented explore the experiences of teaching FMs both successful and unsuccessful educational resources including the use of books case studies and the internet the education of weak and mathphobic students the integration or otherwise of FMs into the curriculum including contributions to the definition of a Formal Methods Body of Knowledge FMBOK the advantages of FM trained graduates in the workplace changing attitudes towards FMs in students academic staff and practitioners and the necessary mathematical background

Formal Methods Teaching João F. Ferreira, Alexandra Mendes, Claudio Menghi, 2021-11-23 This book constitutes the refereed proceedings of the 4th International Workshop and Tutorial FMTea 2021 Held as Part of the 4th World Congress on Formal Methods FM 2021 as a virtual event in November 2021 The 8 full papers presented together with 2 short papers were carefully reviewed and selected from 12 submissions The papers are organized in topical sections named experiences and proposals related with online FM learning and teaching integrating embedding FM teaching thinking within other computer science courses teaching FM for industry and innovative learning and teaching methods for FM

Teaching Formal Methods C. Neville Dean, Raymond T. Boute, 2004-11-17 This book constitutes the refereed proceedings of the CoLogNet FME Symposium on Teaching Formal Methods TFM 2004 held in Ghent Belgium in November 2004 The 15 revised full papers presented together with an invited paper and 2 abstracts of

invited talks were carefully reviewed and selected from numerous submissions The papers presented explore the failures and successes of formal methods education consider how the failures might be resolved evaluate how to learn from the successes and attempt promoting cooperative projects to further the teaching and learning and the usage and acceptance of formal methods

Formal Methods Teaching Brijesh Dongol, Luigia Petre, Graeme Smith, 2019-09-23 This book constitutes the refereed proceedings of the Third International Workshop and Tutorial FMTea 2019 Held as Part of the Third World Congress on Formal Methods FM 2019 Porto Portugal October 2019 The 14 full papers presented together with 3 abstract papers were carefully reviewed and selected from 22 submissions The papers are organized in topical sections named Tutorial lectures Teaching Program Verification Teaching Program Development and Effective Teaching Techniques

Teaching and Learning Formal Methods C. Neville Dean, Michael G. Hinchey, 1996-09-17 As computer systems continue to advance the positions they hold in human society continue to gain power Computers now control the flight of aircraft the cooling systems in chemical plants and feedback loops in nuclear reactors Because of the vital roles these systems play there has been growing concern about the reliability and safety of these advanced computers Formal methods are now widely recognized as the most successful means of assuring the reliability of complex computer systems Because formal methods are being mandated in more and more international standards it is critical that engineers managers and industrial project leaders are well trained and conversant in the application of these methods This book covers a broad range of issues relating to the pedagogy of formal methods The contributors all acknowledged experts have based their contributions on extensive experiences teaching and applying formal methods in both academia and industry The two editors both well known in this area propose various techniques that can help to dismiss myths that formal methods are difficult to use and hard to learn Teaching and Learning Formal Methods will be an indispensable text for educators in the fields of computer science mathematics software engineering and electronic engineering as well as to management and product leaders concerned with training recent graduates Offers proven methods for teaching formal methods even to students who lack a strong background in mathematics Addresses the important role that formal methods play in society and considers their growing future potential Includes contributions from several pioneers in the area Features a foreword written by Edsger W Dijkstra

Formal Methods Teaching Emil Sekerinski, Leila Ribeiro, 2024-09-04 This book constitutes the proceedings of the 6th International Workshop on Formal Methods Teaching FMTea 2024 which was held in Milan Italy on September 10 2024 The 7 full papers included in these proceedings were carefully reviewed and selected from 9 submissions The book also contains one invited talk in full paper length The papers focus on learning formal methods for the purpose of teaching and self learning

Teaching Formal Methods C. Neville Dean, Raymond T. Boute, 2014-03-12 Professional engineers can often be distinguished from other designers by the engineers ability to use mathematical models to describe and 1 analyze their products This observation by Parnas describes the de facto professional standards in all classical engineering disciplines civil

mechanical electrical etc Unfortunately it is in sharp contrast with current industrial practice in software design where mathematical models are hardly used at all even by those who in Holloway's words aspire to be engineers The rare exceptions are certain critical applications where mathematical techniques are used under the general name formal methods Yet these same characteristics that make formal methods a necessity in critical applications make them also advantageous in everyday software design at various levels from design efficiency to software quality Why then is education failing with respect to formal methods failing to convince students academics and practitioners alike that formal methods are truly pragmatic failing to overcome a phobia of formality and mathematics failing to provide students with the basic skills and understanding required to adopt more mathematical and logical approaches to software development Until education takes these failings seriously formal methods will be an obscure byway in software engineering which in turn will remain severely impoverished as a result

Formal Methods Teaching Catherine Dubois, Pierluigi San Pietro, 2023-03-08 This book constitutes the proceedings of the 5th International Workshop on Formal Methods Teaching FMTea 2023 which was held in Lebeck Germany in March 2023 The 7 full papers presented in this volume were carefully reviewed and selected from 10 submissions FMTea 2023 aim is to support a worldwide improvement in learning Formal Methods mainly by teaching but also via self learning

Formal Methods - Fun for Everybody Antonio Cerone, Markus Roggenbach, 2021-03-10 This volume constitutes the post workshop proceedings of the First International Workshop on Formal Methods Fun for Everybody FMFun 2019 held in Bergen Norway in December 2019 The 7 revised full papers and 2 revised short papers presented in this volume were carefully reviewed and selected from 15 submissions A white paper and two keynote papers are also included The papers explore ways of utilizing the pathway to transforming and spreading formal methods The vision of this workshop series is that formal methods ought to be taught in such a way that every student can have fun with it

Teaching Formal Methods Neville Dean, Symposium on Teaching Formal Methods,

Formal Methods for Concurrency Clive Fencott, 1996 This is a practical introduction to the complex subject of formal theories of concurrency Supported throughout by examples and exercises the practical applicability of the methods is demonstrated and the benefits of rigorous approach made clear

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