

Integrated Formal Methods

Third International Conference, IFM 2002, Turku, Finland, May 15-18, 2002.
Proceedings.

The third in a series of international conferences on Integrated Formal Methods, IFM 2002, was held in Turku, Finland, May 15–17, 2002. Turku, situated in the south western corner of the country, is the former capital of Finland. The ? conference was organized jointly by Abo Akademi University and Turku Centre for Computer Science. The theme of IFM 1999 was the integration of state and behavioral based formalisms. For IFM 2000 this was widened to include all aspects pertaining to the integration of formal methods and formal notations. One of the goals of IFM 2002 was to further investigate these themes. Moreover, IFM 2002 explored the relations between formal methods and graphical notations, especially the industrial standard language for software design, the Unified Modeling Language (UML). The themes of IFM 2002 reflect what we believe is a growing trend in the Formal Methods and Software Engineering research communities. Over the last three decades, computer scientists have developed a range of formalisms focusing on particular aspects of behavior or analysis, such as sequential program structures, concurrent program structures, data and information structures, temporal reasoning, deductive proof, and model checking. Much effort is now being devoted to integrating these methods in order to combine their advantages and ensure they scale up to industrial needs. Graphical notations are now widely used in software engineering and there is growing recognition of the importance of providing these with the formal underpinnings and formal analysis capabilities found in formal methods.

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53,49 €
49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783540437031
Medium: Buch
ISBN: 978-3-540-43703-1
Verlag: Springer
Erscheinungstermin: 02.05.2002
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2002
Serie: Lecture Notes in Computer Science
Produktform: Kartoniert
Gewicht: 1280 g
Seiten: 401
Format (B x H): 155 x 235 mm

