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ABSTRACTION AND ASSUME-GUARANTEE REASONING FOR AUTOMATED SOFTWARE VERIFICATION



Abstraction and Assume-Guarantee Reasoning for Automated Software Verification

NASA Technical Reports Server (NTRS), et al., S. Chaki

BiblioGov. Paperback Book Condition: New. This item is printed on demand. Paperback 22 pages. Dimensions: 9.7in x 7.4in x 0.1in. Compositional verification and abstraction are the key techniques to address the state explosion problem associated with model checking of concurrent software. A promising compositional approach is to prove properties of a system by checking properties of its components in an assume-guarantee style. This article proposes a framework for performing abstraction and assume-guarantee reasoning of concurrent C code in an incremental and...

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