

Software and Systems Safety: Specification and Verification - Volume 30 NATO Science for Peace and Security Series - D: Information and Communication ... D: Information and Communication Security)



Information security depends upon an understanding of the functionality of software systems. Customers and information can only be protected from attack if this functionality is guaranteed to be correct and safe. A scientific foundation of software engineering not only provides models enabling the capture of application domains and requirements, but also ensures an understanding of the structure and working of software systems, architectures and programs. This book presents contributions based on the lectures delivered at the 31st International Summer School: Software and Systems Safety: Specification and Verification held at Marktobendorf, Germany, in August 2010, and provides an excellent overview of current research results with special emphasis on software information security. Leading international researchers and experts present their experience in the specification and verification of software systems, accompanied by corresponding tools and methods. Subjects addressed include: model-based testing, schemes and patterns of assumption/promise-based system specification, requirements models for critical systems, engineering evolving and self-adaptive systems, unifying models of data flow, model-based verification and analysis of real-time systems and model checking. The book will be of interest to all those dealing with information systems for whom security is of paramount importance. IOS Press is an international science, technical and medical publisher of high-quality books for academics, scientists, and professionals in all fields. Some of the areas we publish in: -Biomedicine -Oncology -Artificial intelligence -Databases and information systems -Maritime engineering -Nanotechnology -Geoengineering -All aspects of physics -E-governance -E-commerce -The knowledge economy -Urban studies -Arms control

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Department of Computer Science, University of Oxford: Tony Hoare More information on the research behind SAGE can be found in the papers below. 20 Years of Research on Software Model Checking, 2008 Medaille dor du Software Systems Engineering, NATO Science for Peace and Security Molnar) Communications of the ACM, Volume 55, Number 3, pages 40-44, March 2012. **NATO Science for Peace and Security Series - D: Information and** NATO Science for Peace and Security Series D: Information and Communication Security. Volumes in the Information and Communication Security Sub-Series deal . Until quite recently, the correctness and security of software systems was a Pub. date: April 2011 Editors: Broy, M., Leuxner, C., Hoare, T. Volume: 30 **Academic Resume - Ylies Falcone - Univ. Grenoble Alpes - Inria** NATO Emerging Security Challenges Division M. Broy, D. Peled, G. Kalus Science for Peace and Security Series - D: Information and Communication Security. Software and Systems Safety - Specification and Verification, volume 30 of **Software and Systems Safety - Specification and Verification** We describe the specification and verification in an Interactive Theorem Prover of a . Proving, ITP 2014}, series = {Lecture Notes in Computer Science}, volume = 8558, . These are key C++ language features for high-level system programming, . Science for Peace and Security Series D: Information and Communication **Engineering Evolving and Self-Adaptive Systems: An Overview** NATO Science for Peace and Security Series - D: Information and Communication Security. Ebook. Volume 30: Software and Systems Safety a general reference framework to systematically reason about evolution and self-adaptation, the paper focuses on three key aspects: architecture, specification, and verification. **Software and Systems Safety - IOS Press** Ph.D. in Computer Science from University of Grenoble Verimag (Nov 2009) - French and enforcement of specifications on a system using runtime information. ment for safety and co-safety timed properties in [47, 46] by defining approaches in security by defining monitors that verify and enforce the

Runtime enforcement of regular timed properties by suppressing @book{DBLP:series/natosec/30, title = Software and Systems Safety - Specification and Verification, year = 2011, booktitle = Software and publisher = IOS Press, series = NATO Science for Peace and Security Series - D: Information and Communication Security, volume = 30, doi = 10.3233/978-1-60750-711-6, } **IOS Press Ebooks - Formal Logical Methods for System Security and** Software and Systems Safety. Specification and Verification. Share Volume: 30 of NATO Science for Peace and Security Series - D: Information and Communication Security ISBN print: 978-1-60750-710-9 ISBN online: 978-1-60750-711-6 **Software and Systems Safety? Specification and Verification** Leino, K.R.M.: Specification and verification of object-oriented software. 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Volume. 30. **NATO Science for Peace and Security Series C: Environmental** NATO Science for Peace and Security Series - D: Information and GILLES BARTHE lectured on Verification Methods for Software Security and Correctness. security protocols for distributed systems on communication networks. Abstraction in STE is derived from the specification by initializing all inputs not appearing **Run-time requirements verification for reconfigurable systems** The ironies of automation.. still going strong at 30?. K. Johnson, J.V. Tucker (2012) Algebraic Specifications of Computing as a Service with In Software Safety and Security - Tools for Analysis and Verification, volume 33 of NATO Science for Peace and Security Series- D: Information and Communication Security, **Perspectives on the Future of Software Engineering: Essays in - Google Books Result** In: Software and Systems Safety: Specification and Verification. 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Modelling and Analysing Systems of Agents by Agent-aware Transition Systems Data Sets for Security, NATO Science for Peace and Security Series, Sub-Series D: Information and Communication Security, Vol. 17th International Workshop, WADT 2004, Barcelona, Spain, March 27-30, 2004, Revised Selected Papers. - **Gallium - Inria** NATO Science for Peace and Security Series Sub-Series C. Environmental Security Volumes in the Environmental Security Sub-Series deal with scientific and sensing and detection, and decision support systems/risk assessment. Additional information Company Media Compliance Careers Affiliate Program **Software and Systems Safety: Specification and Verification** and Systems Safety Specification and Verification. NATO Science for Peace and Security. Series D: Information and Communication Security, vol. 30, pp. **Papers and reports - Institute of Computer Science, Gdansk** 8th International Computer Science Symposium in Russia, CSR 2013, Ekaterinburg, Russia, June 25-29, 2013, Proceedings Andrei A. Bulatov, Arseny M. In: Software and Systems Safety - Specification and Verification, NATO Science for Peace and Security Series - D: Information and Communication Security, vol. 30, pp. **Computer Science - Theory and Applications: 8th International - Google Books Result** Last updated: May 30, 2017 Ph.D. in Computer Science from University of Grenoble Verimag (Nov 2009) - French Ministry of specifications on a system using runtime information. enforcement for safety and co-safety timed properties in [31, 7] by defining .. Vol. 34. NATO Science for Peace and Security Series, D: **Department of Computer Science, University of Oxford: Tony Hoare** Software and Systems Safety - Specification and Verification. 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