

Curriculum Vitae

Personal information

Name: Enno Ruijters
Address: Reutumbrink 32-2
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the Netherlands
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Date of birth: 2 February 1990
Nationality: Dutch

Employment

2014–Present: PhD Student at the University of Twente, ArRangeer project (smARt Railroad maintenance eNGinEERING with stochastic model checking). Developed Fault Maintenance Trees integrating maintenance into Fault Tree Analysis.
2017 (In progress): Research visit at Fondazione Bruno Kessler, Embedded Systems Group. Trento, Italy.
2012: Internship at IDEE (part of the Maastricht University Medical Centre) Project: Design and implementation of a computer model for climate control of a Respiration Chamber.

Education (during PhD study)

2015: Marktoberdorf summer school on Verification and Synthesis of Correct and Secure Systems, *Marktoberdorf, Germany*.
2014: EATCS Young Researchers school on Automata, Logic and Games. *Telč, Czech Republic*.

Education

2011–2013: Maastricht University: Master Operations Research (Graduated Summa cum laude¹)
Title of master thesis: Model-Checking Markov Chains using Interval Arithmetic
2008–2011: Maastricht University: Bachelor Knowledge Engineering (Graduated cum laude²)

Awards

2009: Winner of the Top 3% grant for the top 3% of students at Maastricht University.

1 Summa cum laude: All grades at least 8/10, average grade at least 9/10.

2 Cum laude: All grades at least 7/10, average grade at least 8/10.

Research interests

My primary research interests are in the areas of fault tree analysis, studying methods and modeling techniques to analyze the dependability of primarily physical systems, by analyzing the failure behaviour of individual components of the system as well as the interactions between components that can lead to system-level failures. In particular, I am interested in applying model checking techniques to validate the correctness of such systems and to obtain quantitative results on their dependability.

Selected publications

1. Enno Ruijters, Dennis Guck, Martijn van Noort, and Mariëlle Stoelinga: [Reliability-centered maintenance of the Electrically Insulated Railway Joint via Fault Tree Analysis: A practical experience report](#) (July 2016). In: *Proceedings of the 46th annual International Conference on Dependable Systems and Networks (DSN 2016)*.
2. Enno Ruijters, Dennis Guck, Peter Drolenga, and Mariëlle Stoelinga: [Fault maintenance trees: reliability centered maintenance via statistical model checking](#) (January 2016). In: *Proceedings of the 62nd annual Reliability and Maintainability Symposium (RAMS 2016)*.
3. Rajesh Kumar, Enno Ruijters, and Mariëlle Stoelinga: [Quantitative Attack Tree Analysis via Priced Timed Automata](#) (September 2015). In: *Proceedings of the 13th International Conference on Formal Modeling and Analysis of Timed Systems (FORMATS 2015)*.
4. Enno Ruijters and Mariëlle Stoelinga: [Fault tree analysis: A survey of the state-of-the-art in modeling, analysis and tools](#) (May 2015). In: *Computer Science Review vol. 15–16*.
5. Dennis Guck, Mark Timmer, Hassan Hatefi, Enno Ruijters, and Mariëlle Stoelinga: [Modelling and analysis of Markov reward automata](#) (November 2014). In: *Proceedings of the 12th International Symposium on Automated Technology for Verification and Analysis (ATVA 2014)*.