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| **Partner n** | **Organisation name / Department**  **Formal Methods & Tools**  **University of Twente** | fbeeldingsresultaat voor logo utwente |
| **Expertise:**  The University of Twente is one of the technical universities in the Netherlands. Its research focus is High Tech, Human Touch; that is to connect innovative technical solutions work in a personal of societal context.  **Mariëlle Stoelinga,** is associate professor in the Formal Methods and Tools group at the University of Twente. She is an active and well-established researcher (60+ publications, H-index 24, 2100 citations) and leads a successful research line in the area of risk management for computer systems.  Together with her team, she develops quantitative risk assessment methods to model, predict, and improve the risks of complex systems. These methods include fault tree analysis, attack tree analysis, architectural reliability and security modeling, and quantitative model checking. Stoelinga has developed compositional methods to simplify and improve attack fault tree analysis, which led to the tool sets DFTCalc and ATCalc.  Stoelinga coordinated several national and international projects, and a WP in the EU FP7 project Quasimodo, on extra-functional system aspects. She is a key participant in the EU IP TREsPASS on quantitative security analysis for socio-technical  systems. She (co-)supervised a number of PhD students and postdocs, and has been invited as a keynote speaker at several venues.   1. Rajesh Kumar, Enno Ruijters, Mariëlle Stoelinga: Quantitative Attack Tree Analysis via Priced Timed Automata. FORMATS 2015: 156-171 2. Florian Arnold, Holger Hermanns, Reza Pulungan, Mariëlle Stoelinga: Time-Dependent Analysis of Attacks. POST 2014: 285-305 3. Enno Ruijters, Mariëlle Stoelinga: Fault tree analysis: A survey of the state-of-the-art in modeling, analysis and tools. Computer Science Review 15: 29-62 (2015) 4. Anne Remke, Mariëlle Stoelinga: Stochastic Model Checking. Advanced Lectures. Lecture Notes in Computer Science 8453, Springer 2014 5. Tri Minh Ngo, Mariëlle Stoelinga, Marieke Huisman: Effective verification of confidentiality for multi-threaded programs. J. Computer Security 22(2): 269-300 (2014) | | |
| **Role in project:** | | |