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Software Testing Research

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Software Testing Research
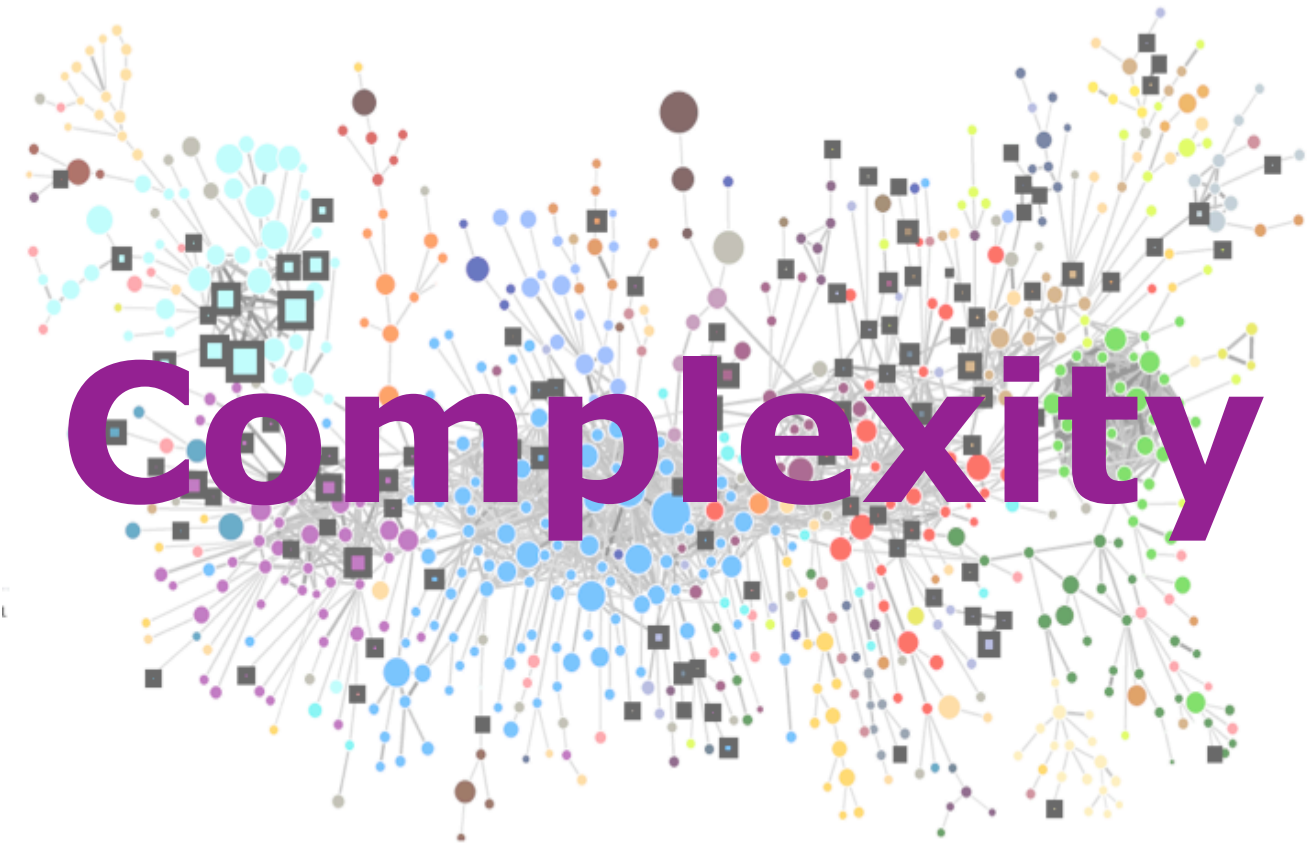
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UNIVERSITÉ DE NAMUR — FACULTÉ D'INFORMATIQUE

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precise

Software Testing Challenges

Complexity

Unpredictability

Adaptation
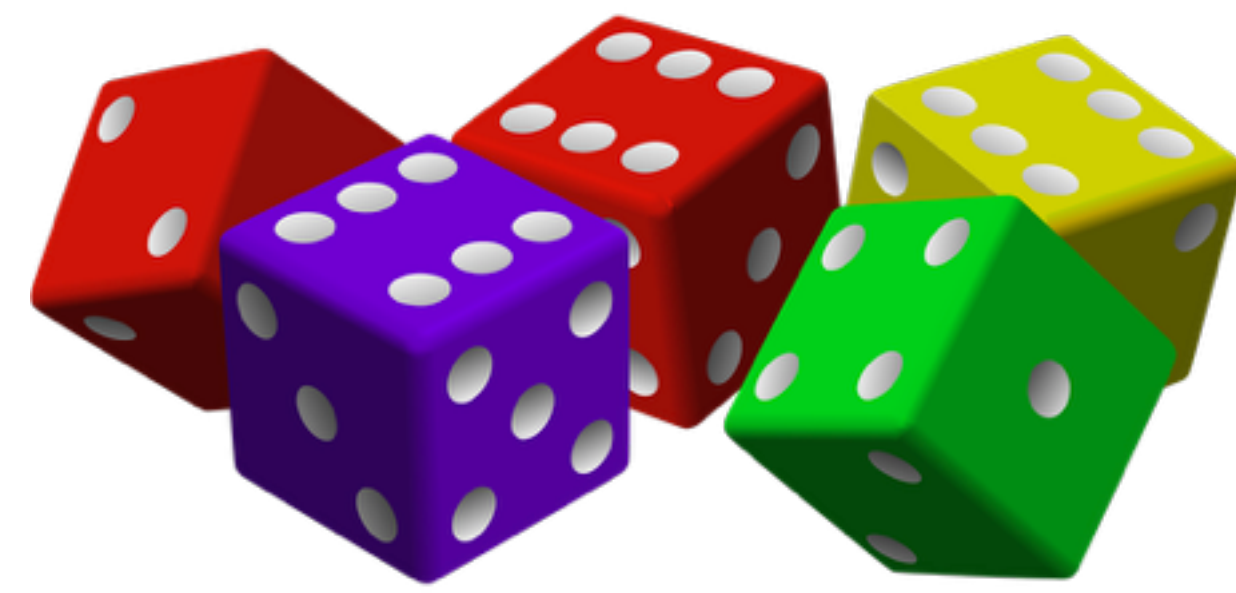
Modelling
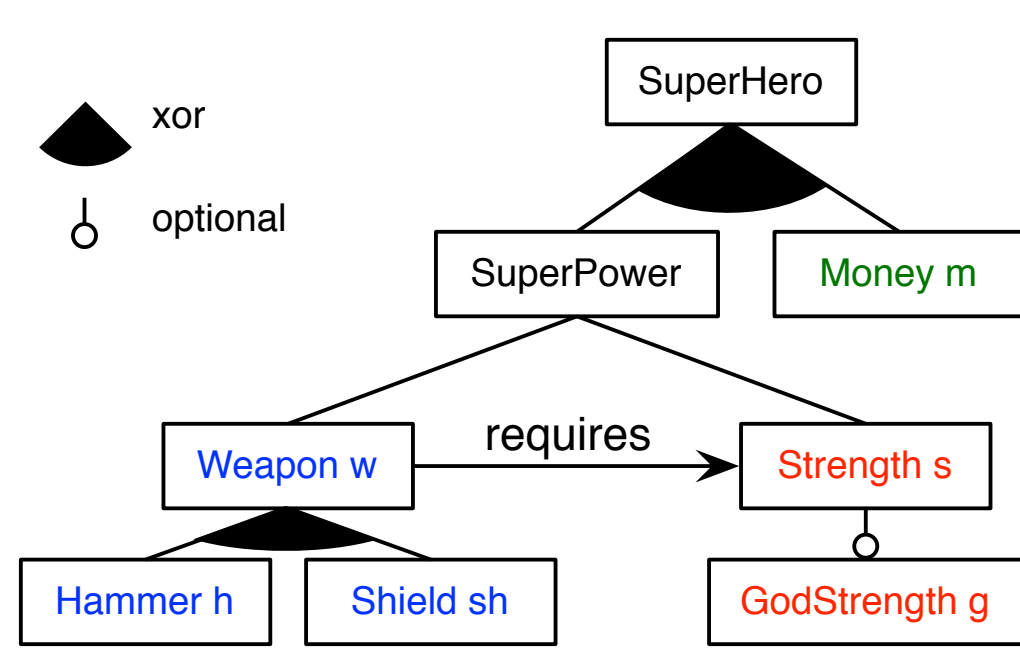
Feature Diagram
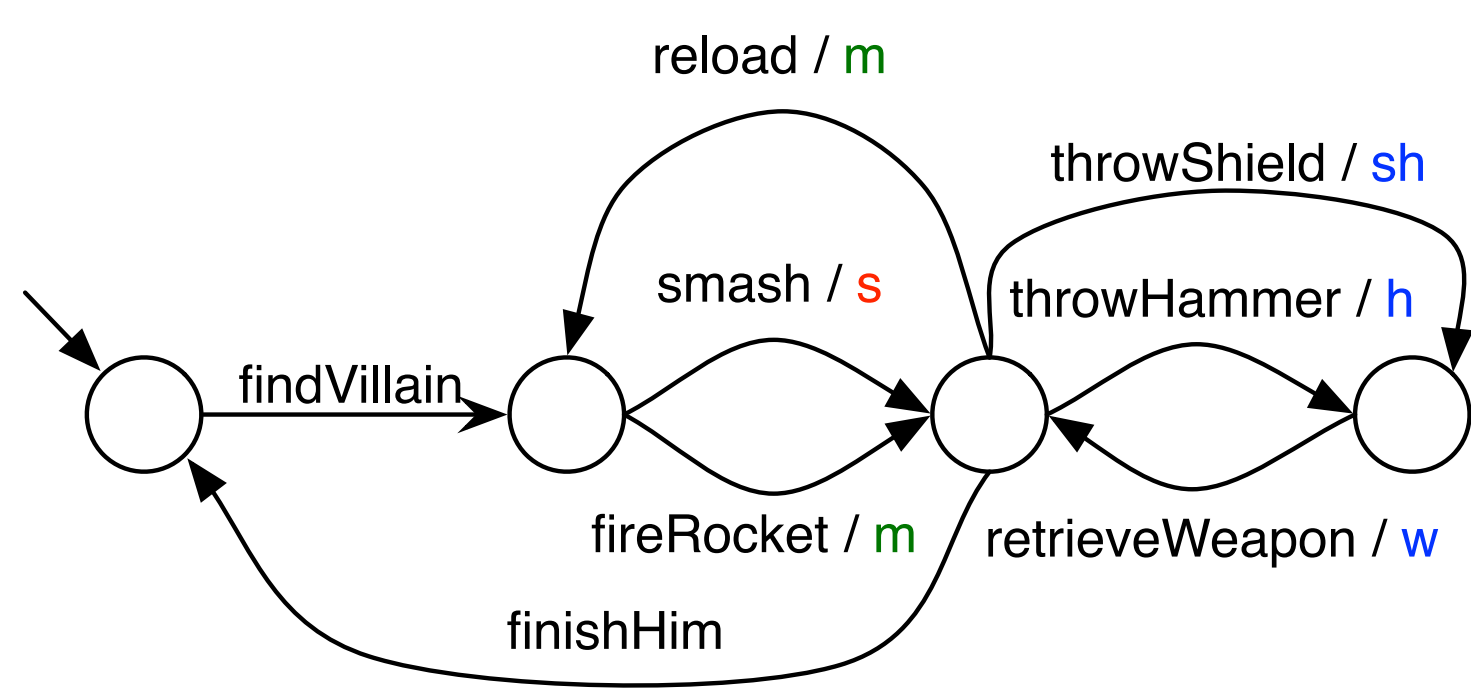
Featured Transition System

Test Generation and Analysis

Evolutionary Testing

Test cases — Mutants

Mutation Testing

Configuration Sampling

Open Source Software Research Cases

Model-based Testing Framework

Partners

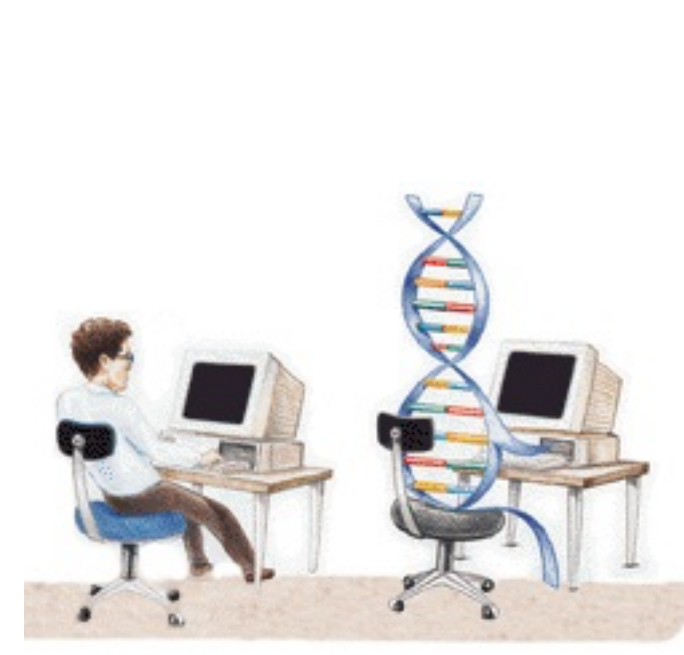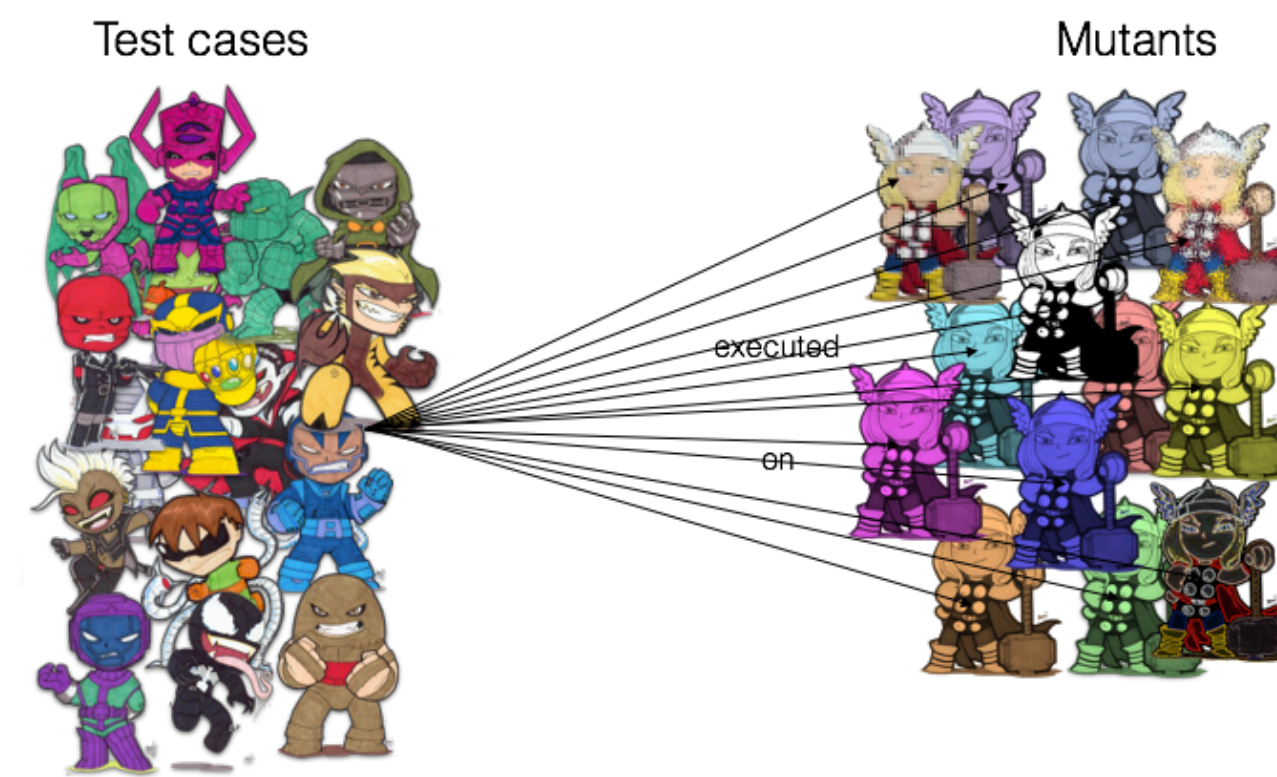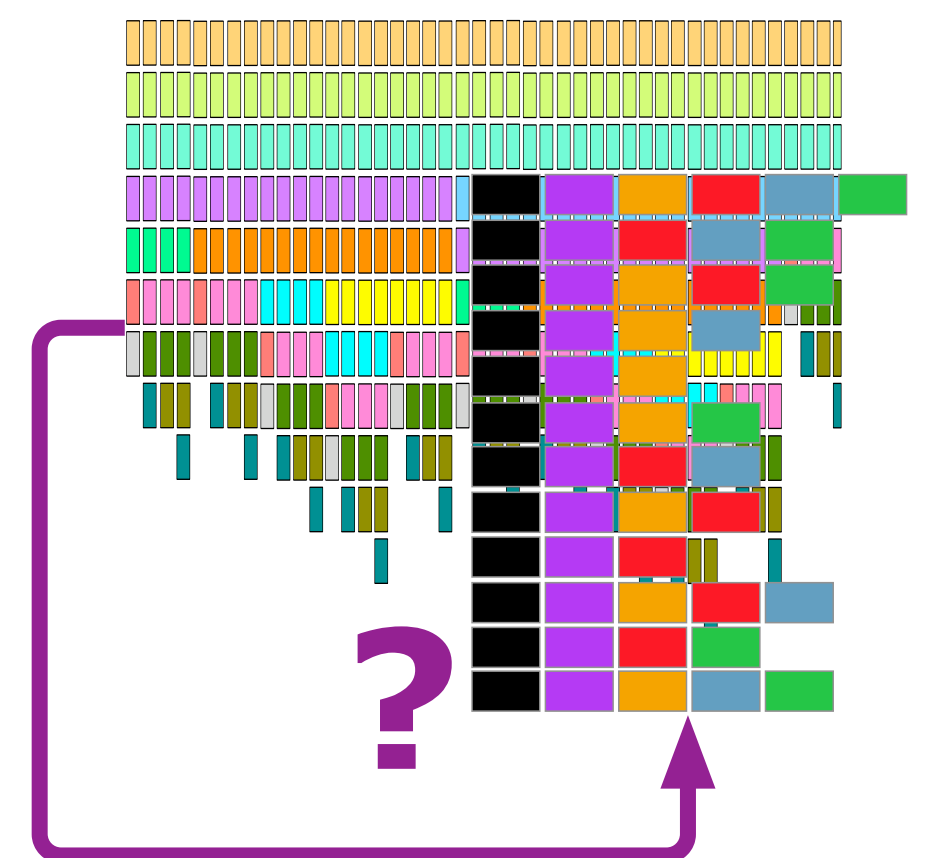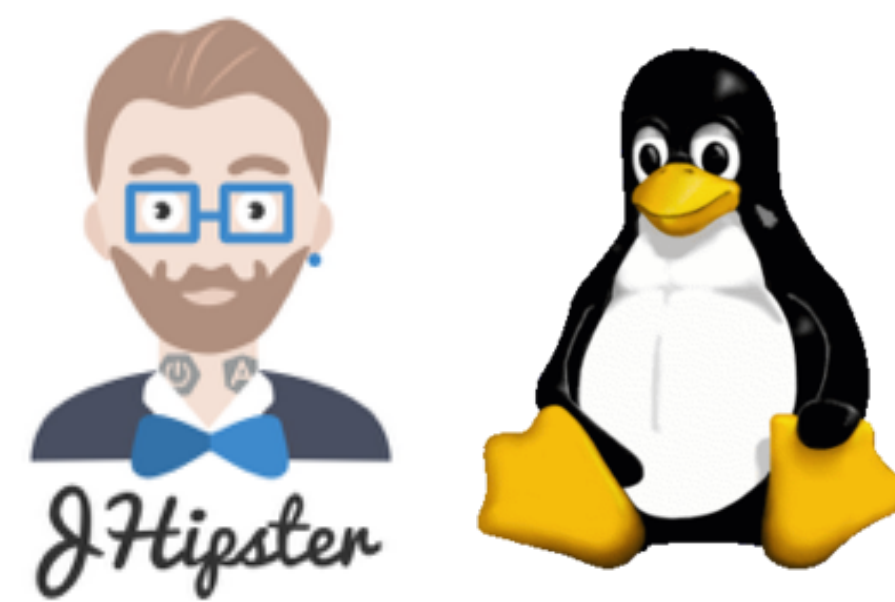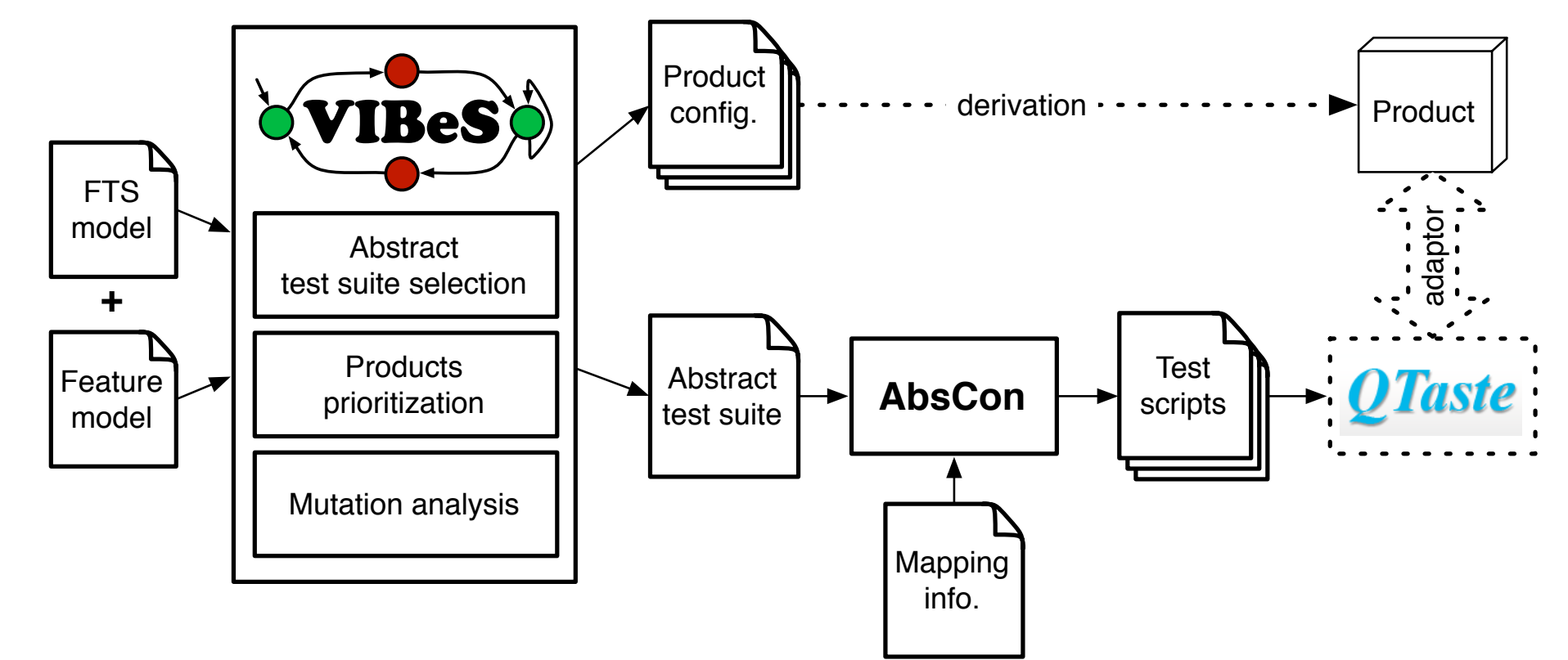UNIVERSITÉ DU LUXEMBOURG · SnT securityandtrust.lu · Inría informatics mathematics · UNIVERSITÉ DE RENNES 1 · University of Brasilia · Federal University of Bahia · TUDelft Delft University of Technology · ULB UNIVERSITÉ LIBRE DE BRUXELLES · KATHOLIEKE UNIVERSITEIT LEUVEN · cetic Your Connection to ICT Research

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Team

Dr. Perrouin

Prof. Heymans · Dr. Devroey · Prof. Schobbens

Prof. Frenay · Dr. Cordy

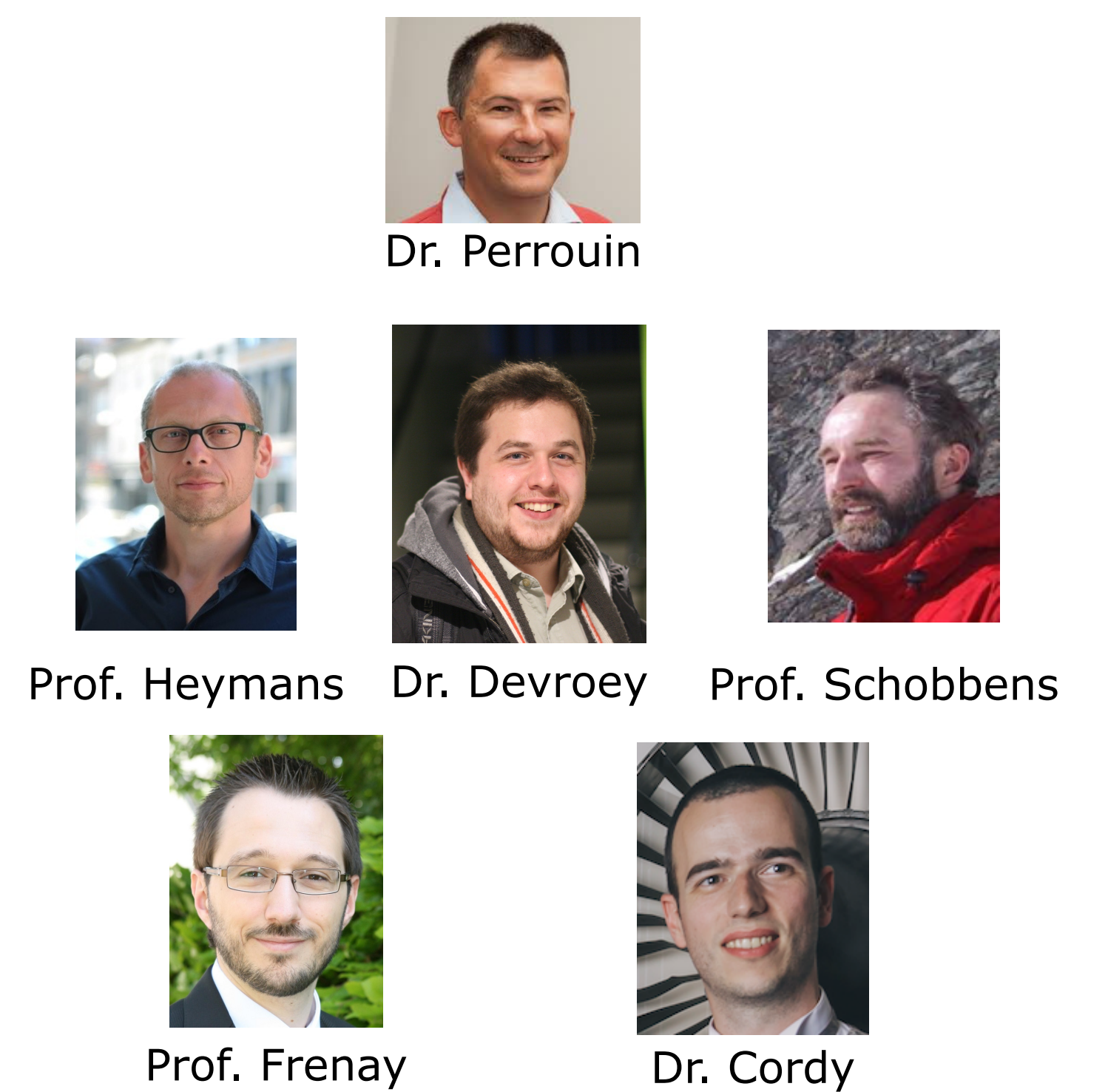## Selected Contributions

Xavier Devroey, Gilles Perrouin, Mike Papadakis, Axel Legay, Pierre-Yves Schobbens and Patrick Heymans, *Model-based mutant equivalence detection using automata language equivalence and simulations*, Journal of Systems and Software, Volume 141, pages 1-15, Elsevier, July 2018.

Xavier Devroey, Gilles Perrouin, Maxime Cordy, Hamza Samih, Axel Legay, Pierre-Yves Schobbens and Patrick Heymans, *Statistical prioritization for software product line testing: an experience report*, Software & Systems Modeling, Volume 16, Issue 1, pages 153-171, Springer, January 2017.

Xavier Devroey, Gilles Perrouin, Mike Papadakis, Axel Legay, Pierre-Yves Schobbens and Patrick Heymans, *Featured Model-based Mutation Analysis*, International Conference on Software Engineering (ICSE), pages 655-666, Austin, TX, USA, IEEE, May 2016.

Christopher Henard, Mike Papadakis, Gilles Perrouin, Jacques Klein, Patrick Heymans and Yves Le Traon, *Bypassing the combinatorial explosion: Using similarity to generate and prioritize t-wise test configurations for software product lines*, Transactions on Software Engineering, Volume 40, Issue 7, pages 650-670, IEEE, July 2014.