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Biography

Adj. Prof. Dragos Truscan's research on using model-based technology and machine learning for the development and testing of software systems, including the evaluation and validation of their non-functional properties. Truscan participated in several national and European research on these topics. Over the years he has co-authored numerous publications and been part of the programme committee or acted as reviewer for conferences and journals such as Springer's Software Quality Journal, Elsevier's Journal of Systems and Software, International Computers, Software & Applications Conference (COMPSAC), IEEE International Workshop on Software Test Automation (STA), Forum on specification and Design Languages (FDL). In addition, he acted as associate editor for the International Journal of Embedded and Real-Time Communication Systems, (IJERTCS), IGI-Global, co-Editor of the IGI-Global's Special Issue on Model-Based Testing for Embedded and Real-Time Communication Systems and program chair for 8th Nordic Workshop on Model Driven Software Engineering (NW-MODE 2010). Truscan has supervised several doctoral students.

Employment

Publications

- An iterative approach for model-based requirements engineering in large collaborative projects: A detailed experience report.** / Sadovykh, Andrey; Said, Bilal; Truscan, Dragos et al.
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- Message from ITEQS 2023 Workshop Chairs.** / Saadatmand, Mehrdad; Truscan, Dragos; Enoiu, Eduard.
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- EARLY: A Tool for Real-Time Security Attack Detection.** / Ahmad, Tanwir; Truscan, Dragos; Vain, Juri.
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- VeriDevOps Software Methodology: Security Verification and Validation for DevOps Practices.** / Enoiu, Eduard Paul; Truscan, Dragos; Andrey, Sadovykh et al.
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9. **CyberSecurity in a DevOps Environment: From Requirements to Monitoring.** / Sadovykh, Andrey (Editor); Truscan, Dragos (Editor); Mallouli, Wissam (Editor) et al.
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11. **Addressing challenges of hybrid capstone projects in a pandemic environment.** / Björkqvist, Jerker; Sell, Anna; Truscan, Dragos.
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Embedded Computer Systems: Architectures, Modeling, and Simulation. SAMOS 2021. . Springer, 2022. p. 144-160 (Lecture Notes in Computer Science; Vol. 13227).
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22. **Using Deep Reinforcement Learning for Exploratory Performance Testing of Software Systems with Multi-Dimensional Input Spaces.** / Ahmad, Tanwir; Ashraf, Adnan; Truscan, Dragos et al.
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30. **On a tool-supported model-based approach for building architectures and roadmaps: The MegaM@Rt2 project experience.** / Sadovykh, A; Afzal, W; Truscan, Dragos et al.
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31. **Model-based testing using UML activity diagrams: A systematic mapping study.** / Ahmad, Tanwir; Iqbal, Junaid; Ashraf, Adnan et al.
In: Computer Science Review, Vol. Volume 33, 2019, p. 98–112.
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32. **An Integrated Model-based Tool Chain for Managing Variability in Complex System Design.** / Bilic, Damir; Brosse, Etienne; Sadovykh, Andrey et al.
2019 ACM/IEEE 22nd International Conference on Model Driven Engineering Languages and Systems Companion (MODELS-C). ed. / Loli Burgueño; Alexander Pretschner; Sebastian Voss; Michel Chaudron; Jörg Kienzle; Markus Völter; Sébastien Gérard; Mansooreh Zahedi; Erwan Bousse; Arend Rensink; Fiona Polack; Gregor Engels; Gerti Kappel. IEEE, 2019. p. –.
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39. **The MegaM@Rt2 ECSEL project : MegaModelling at Runtime – Scalable model-based framework for continuous development and runtime validation of complex systems.** / Afzal, Wasif; Bruneliere, Hugo; Di Ruscio, Davide et al.
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40. **Model-Based System Engineering in Practice: Document Generation - MegaM@Rt2 Project Experience.** / Sadovykh, Andrey; Ashraf, Adnan; Bagnato, Alessandra et al.
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41. **Vulnerability Assessment of Web Services with Model-Based Mutation Testing.** / Siavashi, Faezeh; Truscan, Dragos; Juri, Vain.
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43. **On the Benefits of Using Aspect-Orientation in UPPAAL Timed Automata.** / Vain, Jüri; Truscan, Dragos; Iqbal, Junaid et al.
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60. **Combining Aspect-Orientation and UPPAAL Timed Automata.** / Truscan, Dragos; Vain, J; Koskinen, M.
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Activities

7th International Workshop on Testing Extra-Functional Properties and Quality Characteristics of Software Systems
Saadatmand, M. (Participant), Truscan, D. (Participant) & Enoiu, E. P. (Participant)
16 Apr 2023

Marcel Kyas

Truscan, D. (Host)
10 Feb 2023 → 30 Jun 2023

6th International Workshop on Testing Extra-Functional Properties and Quality Characteristics of Software Systems
Truscan, D. (Organiser), Enoiu, E. P. (Organiser) & Saadatmand, M. (Organiser)
2022

5th International Workshop on Testing Extra-Functional Properties and Quality Characteristics of Software Systems
Saadatmand, M. (Organiser), Truscan, D. (Organiser) & Enoiu, E. P. (Organiser)
12 Apr 2021

4th International Workshop on Testing Extra-Functional Properties and Quality Characteristics of Software Systems
Saadatmand, M. (Chair), Truscan, D. (Chair) & Enoiu, E. P. (Chair)
24 Oct 2020

Model-based testing framework for autonomous multi-robot systems

Truscan, D. (Examiner)
3 Jul 2020

Awards

VST: Virtual Sea Trial

Truscan, D. (PI)
Business Finland: €1,342,297.00
01/01/24 → 31/12/26

Projects

AIDOaRT

Porres Paltor, I. (Principal Investigator), Truscan, D. (Co-Principal Investigator), Nybom, K. (Co-Investigator) & Logacheva, E. (Co-Investigator)
European Commission
01/04/21 → 31/03/24

VeriDevOps: Automated Protection and Prevention to Meet Security Requirements in DevOps Environments

Truscan, D. (Principal Investigator), Porres Paltor, I. (Co-Principal Investigator), Ashraf, A. (Principal Investigator), Ahmad, T. (Co-Investigator), Chariyarupadannayil Sudheerbabu, G. (Co-Investigator) & Chapagain, S. (Principal Investigator)
EU Horizon 2020
01/10/20 → 31/01/24

Cloud Software Programme

Porres Paltor, I. (Principal Investigator), Ashraf, A. (Co-Investigator), Lafond, S. (Co-Investigator) & Truscan, D. (Co-Investigator)
01/01/10 → 31/12/13

DECATRIP: Decarbonizing Transport Corridors

Tsvetkova, A. (Principal Investigator), Hellström, M. (Co-Investigator), Lilius, J. (Co-Investigator), Gustafsson, M. (Co-Investigator), Lafond, S. (Co-Principal Investigator), Truscan, D. (Co-Investigator), Porres Paltor, I. (Co-Investigator), Iancu, B. (Co-Investigator), Schwartz, H. (Co-Investigator) & Chen, Y. (Co-Investigator)

Business Finland

01/04/22 → 31/12/23

D-Mint: Deployment of Model-Based Technologies to Industrial Testing

Truscan, D. (Principal Investigator), Lilius, J. (Co-Principal Investigator), Porres Paltor, I. (Co-Principal Investigator) & Abbors, F. (Co-Investigator)

01/01/07 → 31/12/09

AutoSys: Development of High-Assured Autonomous Systems

Lafond, S. (Principal Investigator) & Truscan, D. (Principal Investigator)

NORDPLUS

15/06/15 → 31/10/19

MegaM@Rt2: MegaModelling at Runtime

Truscan, D. (Principal Investigator), Ahmad, T. (Co-Investigator), Iqbal, J. (Co-Investigator), Porres Paltor, I. (Co-Investigator), Siavashi, F. (Co-Investigator) & Ashraf, A. (Co-Investigator)

European Commission

01/04/17 → 31/03/20

MICAS: Model-Driven Architecture In Co-design Architectures

Lilius, J. (Principal Investigator), Porres Paltor, I. (Principal Investigator) & Truscan, D. (Principal Investigator)

01/01/04 → 31/12/05

N4S: Need for Speed

Porres Paltor, I. (Principal Investigator), Nybom, K. (Co-Investigator), Truscan, D. (Co-Investigator), Ashraf, A. (Co-Investigator), Troubitsyna, E. (Co-Investigator), Byholm, B. (Co-Investigator), Rauf, I. M. (Co-Investigator) & Ahmad, T. (Co-Investigator)

01/01/14 → 31/12/16

NISS: Nordic Master Programme in Intelligent Software Systems

Truscan, D. (Principal Investigator) & Lafond, S. (Co-Principal Investigator)

Nordic Master - Nordic Council of Ministers

01/01/17 → 31/12/22

PECOS: Power and Energy Consumption Testing for NoTA Devices

Lilius, J. (Principal Investigator), Porres Paltor, I. (Principal Investigator) & Truscan, D. (Principal Investigator)

01/09/06 → 30/06/08

PAM: Practical Applications of Model-based technologies to continuous integration & testing methodologies

Truscan, D. (Principal Investigator), Ahmad, T. (Co-Investigator), Iqbal, J. (Principal Investigator), Porres Paltor, I. (Co-Principal Investigator) & Siavashi, F. (Co-Investigator)

01/01/12 → 31/12/15

Recomp: Reduced Certification Costs Using Trusted Multi-core Platforms

Lilius, J. (Principal Investigator), Lafond, S. (Co-Investigator), Truscan, D. (Co-Investigator) & Porres Paltor, I. (Co-Investigator)

01/01/10 → 31/03/13

VST: Virtual Sea Trial

Truscan, D. (Principal Investigator) & Hellström, M. (Principal Investigator)

Business Finland

01/01/24 → 31/12/26

