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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

- Message from ITEQS 2023 Workshop Chairs.** / Saadatmand, Mehrdad; Truscan, Dragos; Enoiu, Eduard.
In: Proceedings - 2023 IEEE 16th International Conference on Software Testing, Verification and Validation Workshops, ICSTW 2023, 2023, p. XIX.
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- Efficient Early Anomaly Detection of Network Security Attacks Using Deep Learning.** / Ahmad, Tanwir; Truscan, Dragos.
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- Preliminary Results in Using Attention for Increasing Attack Identification Efficiency.** / Ahmad, Tanwir; Truscan, Dragos; Vain, Jüri.
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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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- Addressing challenges of hybrid capstone projects in a pandemic environment.** / Björkqvist, Jerker; Sell, Anna; Truscan, Dragos.
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- Application de l'Ingénierie des Exigences basée sur les Modèles dans Trois Grands Projets Collaboratifs Européens : Un Rapport d'Expérience.** / Sadovykh, Andrey; Bruneliere, Hugo; Truscan, Dragos.
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- A Two-phase Metamorphic Approach for Testing Industrial Control Systems.** / Sudheerbabu, Gaadha; Ahmad, Tanwir; Sebek, Filip et al.
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- Early Detection of Network Attacks Using Deep Learning.** / Ahmad, Tanwir; Truscan, Dragos; Vain, Jüri et al.
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9. **Evaluating System Identification Methods for Predicting Thermal Dissipation of Heterogeneous SoCs.** / Öhrling, Joel; Lafond, Sébastien; Truscan, Dragos.
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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11. **Message from the ITEQS 2021 Workshop Chairs.** / Saadatmand, Mehrdad; Truscan, Dragos; Enoiu, Eduard.
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12. **NLP-based Testing and Monitoring for Security Checking.** / Sadovykh, Andrey; Salazar, Zujany ; Mallouli, Wissam et al.
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13. **Applying Model-based Requirements Engineering in Three Large European Collaborative Projects: An Experience Report.** / Sadovykh, Andrey; Truscan, Dragos; Bruneliere, Hugo.
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15. **Security Requirements as Code: Example from VeriDevOps Project.** / Ismaeel, Khaled; Naumchev, Alexandr; Sadovykh, Andrey et al.
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29. **Exploratory Performance Testing Using Reinforcement Learning.** / Ahmad, Tanwir; Ashraf, Adnan; Truscan, Dragos et al.
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30. **MATERA2-AIfTester: An Exhaustive Simulation and Test Generation Tool for fUML Models.** / Iqbal, Junaid; Ashraf, Adnan; Truscan, Dragos et al.
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35. **Model-Based System Engineering in Practice: Document Generation - MegaM@Rt2 Project Experience.** / Sadovykh, Andrey; Ashraf, Adnan; Bagnato, Alessandra et al.
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39. **Reconstructing Timed Symbolic Traces from rtico-Based Timed Test Sequences Using Backward-Induction.** / Iqbal, Junaid; Truscan, Dragos; Vain, Jüri et al.
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 Publication: Chapter in Book/Conference proceeding › Conference contribution › Scientific › peer-review
40. **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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 Publication: Chapter in Book/Conference proceeding › Conference contribution › Scientific › peer-review
41. **Automatic Performance Space Exploration of Web Applications.** / Ahmad, Tanwir; Abbors, Fredrik; Truscan, Dragos.
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53. **An Automated Approach for Creating Workload Models From Server Log Data.** / Abbors, Fredrik; Truscan, Dragos; Ahmad, Tanwir. Proceedings of the 9th International Conference on Software Engineering and Application. ed. / Andreas Holzinger; Therese Libourel; Leszek Maciaszek; Stephen Mellor. SCITEPRESS Science And Technology Publications, 2014. p. 14–25.
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Activities

7th International Workshop on Testing Extra-Functional Properties and Quality Characteristics of Software Systems
 Mehrdad Saadatmand (Participant), Dragos Truscan (Participant) & Eduard Paul Enoiu (Participant)
 16 Apr 2023

6th International Workshop on Testing Extra-Functional Properties and Quality Characteristics of Software Systems
 Dragos Truscan (Organiser), Eduard Paul Enoiu (Organiser) & Mehrdad Saadatmand (Organiser)
 2022

5th International Workshop on Testing Extra-Functional Properties and Quality Characteristics of Software Systems
 Mehrdad Saadatmand (Organiser), Dragos Truscan (Organiser) & Eduard Paul Enoiu (Organiser)
 12 Apr 2021

4th International Workshop on Testing Extra-Functional Properties and Quality Characteristics of Software Systems
 Mehrdad Saadatmand (Chair), Dragos Truscan (Chair) & Eduard Paul Enoiu (Chair)
 24 Oct 2020

Model-based testing framework for autonomous multi-robot systems
 Dragos Truscan (Examiner)
 3 Jul 2020

Awards

VST: Virtual Sea Trial
 Truscan, D.

Business Finland: €19,440.00

01/03/23 → 01/09/23

Projects

AIDOaRT

Porres Paltor, I., Truscan, D., Nybom, K. & Logacheva, E.

01/04/21 → 31/03/24

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

Truscan, D., Porres Paltor, I., Ashraf, A., Ahmad, T., Chariyarupadannayil Sudheerbabu, G. & Chapagain, S.

EU Horizon 2020

01/10/20 → 30/09/23

DECATRIP: Decarbonizing Transport Corridors

Tsvetkova, A., Hellström, M., Lilius, J., Gustafsson, M., Lafond, S., Truscan, D., Porres Paltor, I., Iancu, B., Schwartz, H. & Chen, Y.

Business Finland

01/04/22 → 31/12/23

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

Truscan, D., Lilius, J., Porres Paltor, I. & Abbors, F.

01/01/07 → 31/12/09

AutoSys: Development of High-Assured Autonomous Systems

Lafond, S. & Truscan, D.

NORDPLUS

15/06/15 → 31/10/19

MegaM@Rt2: MegaModelling at Runtime

Truscan, D., Ahmad, T., Iqbal, J., Porres Paltor, I., Siavashi, F. & Ashraf, A.

ECSEL JU

01/04/17 → 31/03/20

MICAS: Model-Driven Architecture In Co-design ArchitectureS

Lilius, J., Porres Paltor, I. & Truscan, D.

01/01/04 → 31/12/05

N4S: Need for Speed

Porres Paltor, I., Nybom, K., Truscan, D., Ashraf, A., Troubitsyna, E., Byholm, B., Rauf, I. M. & Ahmad, T.

01/01/14 → 31/12/16

NISS: Nordic Master Programme in Intelligent Software Systems

Truscan, D. & Lafond, S.

Nordic Master - Nordic Council of Ministers

01/01/17 → 31/12/22

PECOS: Power and Energy Consumption Testing for NoTA Devices

Lilius, J., Porres Paltor, I. & Truscan, D.

01/09/06 → 30/06/08

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

Truscan, D., Ahmad, T., Iqbal, J., Porres Paltor, I. & Siavashi, F.

01/01/12 → 31/12/15

Recomp: Reduced Certification Costs Using Trusted Multi-core Platforms

Lilius, J., Lafond, S., Truscan, D. & Porres Paltor, I.

01/01/10 → 31/03/13

Research on Software Testing

Porres Paltor, I., Truscan, D., Ahmad, T. & Ashraf, A.

01/01/00 → ...