Attila Ficsor

Computer scientist · PhD Student

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Education

- 2022– **Computer Science PhD**, *Budapest University of Technology and Economics* Research topic: Testing autonomous vehicles by systematically generating traffic situation
- 2020–2022 **Computer Engineering MSc**, *Budapest University of Technology and Economics* Master's thesis: Integration of a High Performance Predicate Evaluator to a Graph Generator Algorithm
- 2016–2020 **Computer Engineering BSc**, *Budapest University of Technology and Economics* Bachelor's thesis: Generation of Abstract Test Scenarios for Systematic Verification of Autonomous Vehicles

Employment

- 2022 Junior Software Engineer, IncQuery Labs cPlc., Budapest, HU
- 2021–2022 Assistant Research Fellow, Budapest University of Technology and Economics, Budapest, HU

Internships

2019 Software Engineer Intern, IncQuery Labs cPlc., Budapest, HU

Skills and Interests

Research Graph solver, Graph model generation, Autonomous Vehicle testing Development Java, Python, C, C++, Shell, Git, CI/CD, Unreal Engine

A ★ Languages

Hungarian Native English Full Professional Proficiency

Open Source Contributions

2020– **Refinery ()**, An efficient graph solver for generating well-formed models (refinery.services ())

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- CSCS 2022 Semantic Robustness Testing for Vision-Based Machine Learning Components of Autonomous Cyber-Physical Systems, <u>A. Ficsor</u>, The 13th Conference of PhD Students in Computer Science : Volume of Short Papers, pages 35-39, 2022
- CSCS 2022 **Toolchain for the Construction of Realistic Simulated Urban Environments**, *B. Pintér,* <u>A. Ficsor</u>, The 13th Conference of PhD Students in Computer Science : Volume of Short Papers, pages 40-44, 2022
- Minisy 2022 An Initial Performance Analysis of Graph Predicate Evaluation over Partial Models, <u>A. Ficsor</u>, O. Semeráth, Proceedings of the 29th Minisymposium of the Department of Measurement and Information Systems Budapest University of Technology and Economics, 2022

Students' Scientific Conference Papers

- 2021 **Simulation-based robustness testing of ADAS systems**, <u>A. Ficsor</u>, B. Pintér, Students' Scientific Conference of the Faculty of Electrical Engineering and Informatics of the Budapest University of Technology and Economics 2nd prize
- 2019 Automated generation of Test Layouts for the Systematic Verification of Autonomous Vehicles, <u>A. Ficsor</u>, B. Somorjai, Students' Scientific Conference of the Faculty of Electrical Engineering and Informatics of the Budapest University of Technology and Economics *Reward*

Teaching

Courses Critical Systems Laboratory · Systems Engineering Laboratory 1 · Model-based Software Development · Model-based Systems Design · Software and Systems Verification