Tamás Girászi

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Professional Experience 2023 -Research Assistant, University of Debrecen, Faculty of Informatics Nov 2019 - 2023 Participation in University Project, University of Debrecen, Faculty of Informatics o Design and integration of a speed sensor into autonomous model cars o Research on Deep Learning-based technologies for autonomous vehicles • Investigation of graph embedding algorithms • Cell detection and intensity value calculation using computer vision o Demonstrator o Foundation of Computer Security o Cryptography • Introduction to Programming o Secretary of the Data Security Workshop at György Hajós Data Science College o University of Debrecen Talent Program • Exploration of development possibilities for offline dictionary attacks against passwords Education 2023 -PhD Student, University of Debrecen, Doctoral School of Informatics, "Theoretical Computer Science, Data Protection and Cryptography", Debrecen, PhD Software Engineer, University of Debrecen, Faculty of Informatics, Debrecen, MSc 2022 - 2023Computer Science Engineer, University of Debrecen, Faculty of Informatics, Debrecen, 2018-2021 BSc 2014-2018 Specialization in Informatics, Báthory István Catholic Elementary School, High School and Vocational School, Nyírbátor o Advanced courses in Informatics and Mathematics Professional Skills GNU/Linux Basic knowledge of mainly Debian-based systems git Basic knowledge Office Software Proficiency in Microsoft Office and LATEX (This CV is written in LATEX) Packages Python I work with Python frameworks for my blockchain (Solana and Ethereum), Deep Learning, and Computer Vision-related projects; knowledge of Anaconda, Web3, Solana, Keras, TensorFlow, and OpenCV Knowledge appropriate to my degree Java C/C++Knowledge appropriate to my degree Bash Automation of routine tasks Courses 2020 NVIDIA Deep Learning Institute Certificate Fundamentals of Deep Learning for Computer Vision https://courses.nvidia.com/certificates/85600f13ba364af79cc906eaa51edaa4 2021 The Complete Cyber Security Course: Hackers Exposed! https://www.udemy.com/certificate/UC-2504ade5-3cb6-493b-96d7-14c39c6ab17b/

- 2022 NVIDIA Deep Learning Institute Certificate Fundamentals of Deep Learning https://courses.nvidia.com/certificates/2205ce557fa74268a16a7f195bdcaa23
- 2022 **NVIDIA Deep Learning Institute Certificate** Getting Started with AI on Jetson Nano https://courses.nvidia.com/certificates/7ad6f188d20b41dcb47e62daaeea2f1a
- 2023 SCADEMY Secure Coding Academy Ltd. AI Fundamentals https://cert.scademy.com/certificate/DfTNuHDLbvdOCwNIYzpw
- 2023 SCADEMY Secure Coding Academy Ltd. AI For Software Developers https://cert.scademy.com/certificate/SVLvuDmpcomjNbozkGhi
- 2023 SCADEMY Java and Web Application Security https://cert.scademy.com/certificate/yShzchenHSDvWszjsTSa

Scholarships and Awards

- 2018 Morus Award For Student Community Activities
- 2021 **TDK Paper** Efficiency Examination of Graph Embedding Algorithms for the Advancement of Smart City Development, 2nd place
- 2021 National Higher Education Scholarship
- 2021 Dean's Commendation of the Faculty of Informatics for academic achievements
- 2022 **TDK Paper** Behavior-Based Autonomous Driving of Model-Sized Vehicles Using Resolution-Independent Neural Networks, 3rd place
- 2022 **TDK Paper** Development of a Digital Actuator Sensor System for Autonomous Model Cars, 3rd place
- 2022 National Higher Education Scholarship
- 2023 Student Memorial Medal of the Faculty of Informatics

Publications

TDK **Tamás Girászi, Tamás Takács**: Efficiency Examination of Graph Embedding Algorithms for the Advancement of Smart City Development

Tamás Girászi, Gergő Tamás Legény: Behavior-Based Autonomous Driving of Model-Sized Vehicles Using Resolution-Independent Neural Networks

Tamás Girászi, Ferenc Mári, Csaba Zolnai: Development of a Digital Actuator Sensor System for Autonomous Model Cars

Scientific Articles **Tiba, A., Hajdu, A. & Giraszi, T.**(2024). Finding Efficient Graph Embeddings and Processing them by a CNN-based Tool. Neural Processing Letters, 56(5), 226. doi:10.1007/s11063-024-11683-0

A. Huszti, T. Girászi, N. Oláh: "Blockchain-Based Messaging for VANETs," 2023 Congress in Computer Science, Computer Engineering, & Applied Computing (CSCE), Las Vegas, NV, USA, 2023, pp. 2443-2450, doi: 10.1109/CSCE60160.2023.00394.

L. Kovács, D. Baranyai, T. Girászi, T. Majoros, Á. Kovács, M. Vágner, D. Palkovics, T. Bérczes: "Sensor design and integration into small sized autonomous vehicle," 2022 IEEE 2nd Conference on Information Technology and Data Science (CITDS), Debrecen, Hungary, 2022, pp. 171-176, doi: 10.1109/CITDS54976.2022.9914037.

Language Skills

English B2 complex language exam

Other Activities

Mentor in the EFOP-3.4.3-16-2016-00021 project