

Curriculum Vitae – Dr. Károly Nehéz

Károly Nehéz was born in 1974 in Nyíregyháza, Hungary. He pursued his studies in mechanical engineering at the University of Miskolc, where he obtained his MSc degree in 1997.

Since 2000, he has been working at the Department of Applied Informatics, first as an assistant lecturer, then as an assistant professor from 2007, and since 2010 as an associate professor. In 2003, he defended his PhD dissertation at the University of Miskolc, entitled “*Computer Simulation of Milling and Optimization Issues.*”

He teaches courses in Information Systems Design, and his main research areas include software development, information systems, and data mining. Since 2017, he has been the Head of the Department of Applied Informatics, and since 2019, the Head of the Institute of Informatics.

Selected Publications

- Sekhi Ihab Razzaq, Abdah Hadeel, Nehéz Károly: Reliable and Cost-Effective Fuzzy-Based Cloud Broker, INTERNATIONAL JOURNAL OF NETWORKED AND DISTRIBUTED COMPUTING 13: (1) 10, 2025
- Ihab Sekhi, Nehéz Károly: Intelligent SLA Selection through the Validation Cloud Broker System, IEEE ACCESS 12: pp. 110230-110247., 2024
- Nasraldeen Alnor Adam Khleel, Nehéz Károly: Optimizing LSTM for Code Smell Detection: The Role of Data Balancing, INFOCOMMUNICATIONS JOURNAL 16: (3) pp. 57-63., 2024
- Khleel Nasraldeen Alnor Adam, Nehéz Károly: A novel approach for software defect prediction using CNN and GRU based on SMOTE Tomek method, JOURNAL OF INTELLIGENT INFORMATION SYSTEMS 60: pp. 673-707., 2023
- Khleel Nasraldeen Alnor Adam, Nehéz Károly: Improving the accuracy of recurrent neural networks models in predicting software bug based on undersampling methods, INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE 32: (1) pp. 478-493., 2023
- Mannheim Viktória, Nehéz Károly, Salman Brbhan, Bencs Péter: Primary Energy Resources and Environmental Impacts of Various Heating Systems Based on Life Cycle Assessment, ENERGIES 16: 6995, 2023
- Khleel Nasraldeen Alnor Adam, Nehéz Károly: Software defect prediction using a bidirectional LSTM network combined with oversampling techniques, CLUSTER COMPUTING, 2023
- Agárdi Anita, Nehéz Károly, Hornyák Olivér, Kóczy László T.: A Hybrid Discrete Bacterial Memetic Algorithm with Simulated Annealing for Optimization of the Flow Shop Scheduling Problem, SYMMETRY (BASEL) 13: (7) 1131, 2021
- Agárdi Anita, Nehéz Károly: The Unrelated Parallel Machines Scheduling Problem with Machine and Job Dependent Setup Times, Availability Constraints, Time Windows and Maintenance Times, MANAGEMENT AND PRODUCTION ENGINEERING REVIEW 12: (3) pp. 15-24., 2021
- Boros R., Farkas László, Nehéz Károly, Viskolcz Béla, Szőri Milán: An Ab Initio Investigation of the 4,4'-Methylene Diphenyl Diamine (4,4'-MDA) Formation from the Reaction of Aniline with Formaldehyde, POLYMERS 11: (3) 398, 2019