UNIVERSITATEA TEHNICĂ DIN CLUJ-NAPOCA
FACULTATEA DE AUTOMATICĂ ŞI CALCULATOARE

PERSONAL INFORMATION

Full name: Știole Simona-Daiana
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CURRENT POSITION / OCCUPATION

- Date: *23.10.23 – present*
- Institution: *ASKLEPIOS, Technical University of Cluj-Napoca*
- Position: Research Engineer

- Date: 25.02.2024 *– present*
- Institution: *Universitatea Tehnica din Cluj-Napoca*
- Position: Teaching Assistant

EDUCATION AND TRAINING

- Year: *2017-2021*
- Institution: Technical University of Cluj-Napoca
- Degree obtained: Bachelor of Engineering
- Field of study: Automation and Applied Informatics

- Anul: *2021-2023*
- Numele si tipul organizaţiei: Technical University of Cluj-Napoca
- Titlul obţinut: Master of Engineering
- Specializarea: Advanced Process Control

- Anul: *2023-present*
- Numele si tipul organizaţiei: Technical University of Cluj-Napoca
- Titlul: PhD Student
- Specializarea: Systems Engineering

TEACHING ACTIVITIES

Teaching practice in the technical field within the psycho-pedagogical training module, Levels I and II
Laboratory teaching in **Process Modeling**
Laboratory teaching in **System Theory**
Faculty of Automation and Computer Science, Department of Automation,
Technical University of Cluj-Napoca

PROFESSIONAL EXPERIENCE

July 2020 – August 2020
Engineering Bootcamp
Emerson

PUBLICATIONS

1. S.-D. Sim, A. Medgyesi, Zs. Lendek, C.-L. Vaida, V. Mihaly, M. Susca, P. Dobra, J. Machado, Robotic platform for position control of a ball, 33th International Conference on Robotics in Alpe-Adria-Danube Region, pages 503-509, Cluj-Napoca, Romania, June 2024.
2. S.-D. Sim, Zs. Lendek, V. Mihaly, M. Susca, A. Medgyesi, A. E. Pica, D. Pisla, C.-L. Vaida and P. Dobra, "Online identification using Markov coefficients: application to a DC motor," in *29th International Conference on System Theory, Control and Computing (ICSTCC)*, Cluj-Napoca, Romania, 2025.
3. S.-D. Stiole, A. Pusca, P. Tucan, I. Nadas, V. Bulbucan, A. Cailean, D. Sebeni, A. Banica, D. Jucan, R. Morariu, C. Vaida, P. Dobra, J. Machado and D. Pisla, "Design and Control of a New Wrist Rehabilitation Robot," in *Proceedings of the 22nd International Conference on Informatics in Control, Automation and Robotics (ICINCO 2025)*, Marbella, Spain, 2025.
4. S.-D. Sim, A. Medgyesi, Zs. Lendek, M. Susca, V. Mihaly, D. Pisla, C.-L. Vaida, P. Dobra, A.-E. Pica, Adaptive filters for DC motor identification: a case study. In 2024 IEEE International Conference on Automation, Quality and Testing, Robotics, pages 1-6, Cluj-Napoca, Romania, May 2024.
5. S.-D. Sim, Zs. Lendek și P. Dobra, „Implementation and testing of digital filters on STM32 Nucleo-64P," IEEE International Conference on Automation, Quality and Testing, Robotics, Cluj-Napoca, Romania, pp. 1-6, 2022.
6. S.-D. Sim, Zs. Lendek și P. Dobra, „Analysis of the quantization effects in the implementation of numerical filters", 27th International Conference on System Theory, Control and Computing, October 11-13, 2023, Timisoara, Romania, pp. 1-6.
7. Vlad Mihai Mihaly, Mircea Susca, Simona Sim, Petru Dobra, Robust Feedback Linearization for Full Relative Degree Input-Affine Nonlinear Systems, 2024 European Control Conference (ECC), Stockholm, Sweden, June 2024.
8. Mircea Susca, Vlad Mihai Mihaly, Simona Sim, Petru Dobra, Design of Linear Control Laws for Minimum Uniform Quantization Tracking Error, 2024 European Control Conference (ECC), Stockholm, Sweden, June 2024.
9. V Mihaly, M Şuşcă, I Birlescu, S Sim, D Pisla, P Dobra, Robust Feedback Linearization for Serial Robots, 2024 IEEE International Conference on Automation, Quality and Testing, Robotics, pages 1-6, Cluj-Napoca, Romania, May 2024.

Cluj-Napoca, 04.02.2026

Eng. Știole Simona-Daiana