

Anatolii Khalin

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WORK EXPERIENCE

 **CENTRALESUPÉLEC RENNES – CESSON-SÉVIGNÉ, FRANCE**
POSTDOCTORAL RESEARCHER – 01/11/2023 – CURRENT

EDUCATION AND TRAINING

01/11/2019 – 31/12/2022 Lille, France
PH.D. IN AUTOMATIQUE ET PRODUCTIQUE Université de Lille

Address 59650, Lille, France

01/09/2017 – 04/01/2019 Kharkiv, Ukraine
MASTER OF SCIENCE IN APPLIED MATHEMATICS V. N. Karazin Kharkiv National University

PUBLICATIONS

Journal Articles

- A. Khalin, D. Efimov, and R. Ushirobira. On robust observer design for a class of Persidskii time-varying continuous-time and discrete-time systems. *IEEE Transactions on Automatic Control*, 2023
- A. Khalin, R. Ushirobira, D. Efimov, and G. Casiez. On Computer Mouse Pointing Model Online Identification and Endpoint Prediction. *IEEE Transactions on Human-Machine Systems*, 2021.
- A. Khalin and N. Kizilova. "Performance comparison of different aerodynamic shapes for autonomous underwater vehicles." *Archive of Mechanical Engineering* vol. 66.2, pp. 171-189, 2019.

Conference Proceedings

- A. Khalin, R. Bourdais. "Stabilizing non-discerning control design for discrete-time linear switched systems", in *2025 IEEE Conference on Decision and Control Rio De Janeiro, Brazil* (accepted).
- A. Khalin, J-F. Lalande, R. Bourdais, "Detecting Energy Theft Attacks on an Off-Grid Charging Station", in *2025 ACM e-Energy 2025, Rotterdam, Netherlands*.
- A. Khalin, D. Efimov, and R. Ushirobira. "On observer design for a class of Persidskii systems based on steady-state estimation", in *2023 IFAC World Congress, Yokohama, Japan*.
- A. Khalin, R. Ushirobira, and D. Efimov. "On steady-state based reduced-order observer design for interlaced nonlinear systems", in *2022 European Control Conference (ECC), London, UK*.
- A. Khalin, D. Efimov, and R. Ushirobira. "On observer design for a class of time-varying Persidskii systems based on the invariant manifold approach", in *2022 European Control Conference (ECC), London, UK*.

TEACHING EXPIRIENCE

09/2024 – 12/2024
Teaching assistant in Control of Dynamical Systems

Undergraduate (~80 students) in **CentraleSupélec**, Rennes

03/2021 – 04/2021
Teaching asisstant in Control Engineeering

Undergraduate (~25 students) in **JUNIA**, Lille.

01/10/2024 – 31/03/2025

Industrial Project "IoT "Smart room" Security Testbed"

A research project with 3 Master's students in cybersecurity of IoT Testbed in **CentraleSupélec**, Rennes.

04/09/2024 – 17/09/2024

Filière Métiers de la Recherche (Case Study)

Advising on a Case Study called "Implementation of a "Covert Attack" in an Electric Battery Charging System" for a group of 2 Master's students, in **CentraleSupélec**, Rennes.

● **WORKSHOPS AND OTHER RESEARCH EVENTS**

Workshops

- Mini-workshop on "Observability faults of nonlinear systems" Inria Sophia Antipolis, December 2021.
- 4th Spring School on Data-Driven Model Learning of Dynamic Systems, Ecole Centrale de Lyon, 6-9 April 2021.

Other

- HackAtech Inria Lille 2021 Sciences et technologies du numérique Inria Lille - Nord Europe, 25 - 27 November 2021. (with Scientists Challenge Prize as a member of NIJTA team)