Anatolii Khalin

Date of birth: 09/11/1993 | **Nationality:** Ukrainian | **Gender:** Male | (+33) 749338498 | anatolii.khalin@inria.fr |

40 Avenue Halley, 59650, Lille, France

EDUCATION AND TRAINING

01/11/2019 – CURRENT – Lille, France
PH.D. STUDENT IN INFORMATIQUE AND AUTOMATIQUE – French National Institute for Research in Computer Science and Automation (Inria), 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 reduced-order observer design and tracking control for a class of nonlinear systems. (*Under review*)

- A. Khalin, D. Efimov, and R. Ushirobira. On robust observer design for a class of Persidskii time-varying continuous-time and discrete-time systems. (*Under review*)

- 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, D. Efimov, and R. Ushirobira. "On observer design for a class of Persidskii systems based on steady-state estimation". (*Under review*)

- 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). (*In press*)

- 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). (*In press*)

- A. Khalin, S. Poslavskii. "Trajectory optimization for underwater gliders." in the 3rd International Scientific Conference "Differential Equations and Control Theory (DECT-2018) Kharkiv, 2018

- A. Khalin, N. Kizilova, and N. Rychak. "On numerical modelling of the river flows with validation on the measurement data." in the 3rd International Scientific Conference "Differential Equations and Control Theory (DECT-2018)" Kharkiv, 2018

- A. Khalin. "Autonomous underwater vehicle kinematics." in the X International scientific conference for young scientists "Modern problems of mathematic and its application in natural science and information technologies", Kharkiv, 2015

● TEACHING EXPIRIENCE

03/2021 – 04/2021
Teaching asisstant in Automation

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

● 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)