Dagbégnon Epiphane LOKO

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Education

Since 2022 **Ph.D. Ongoing, Ecole Nationale des Ponts et chaussées/ Paris Saclay University** . Thesis title: *Stability analysis of infinite dimension systems and perturbations effect.*

2021 – 2022 **Master 2., Gustave Eiffel University (France)** in Applied mathematics. PDE and Analysis track

2019 – 2021 **Master 1 and 2, Institut de Mathématique et de Sciences Physiques (Bénin)** in Fundamental Mathematics.

2018 – 2019 **Bachelor, Institut de Mathématique et de Sciences Physiques (Bénin)** in Mathematics.

2016 – 2018 **Preparatory classes, Institut de Mathématique et de Sciences Physiques (Bénin)** in Mathematics.

International visit and Academic Internships

October 2024-December 2024 **PhD student visit at National Technical University of Athens (Greece)** supervised by Iasson Karafyllis. (Ongoing)

April 2022 –August 2022 **Intern, Laboratoire des Signaux et sytèmes, Centrale Supelec, France** Input-to-state stability of time delay systems supervised by Antoine Chaillet.

April 2021 – August 2021 **Intern, Institut de Mathématique et de Sciences Physique, Bénin** Stabilization of hyperbolic systems in one dimensional space supervised by Amaury Hayat.

Research Publications

Journal Articles

1. A. Hayat and E. Loko, "Fredholm backstepping and rapid stabilization of general linear systems. (Preprint)," 2024.
2. E. Loko, A. Chaillet, and I. Karafyllis, "Building coercive Lyapunov–Krasovskii functionals based on Razumikhin and Halanay approaches," *International Journal of Robust and Nonlinear Control*, 2024.

Conference Proceedings

1. E. Loko, A. Chaillet, Y. Wang, I. Karafyllis, and P. Pepe, "Growth conditions to ensure input-to-state stability of time-delay systems under point-wise dissipation. (Preprint)," in *2024 IEEE 63rd Conference on Decision and Control (CDC)*, IEEE, 2024.

Miscellaneous Experience

Awards and Achievements

2024 **Best Presentation Award** of Automatic and system team at L2S. PhD student day 2024

Talks

Young researcher seminar of CERMICS	Input-to-state stability of time-delay systems: Lyapunov-based results(April, 2023).
Ph.D. students and Postdoc seminar of L2S	Novel point-wise dissipation conditions in input-to-state stability for time delay systems (June, 2023).
Congrès National d'Analyse Numérique	Growth condition to ensure input-to-state stability of time delay systems with point-wise dissipation (May 2024).
Ph.D. students and Postdoc seminar of L2S	Building coercive Lyapunov-Krasovskii functionals based on Razumikhin and Halanay conditions (June, 2024).
PhD student day of L2S	Growth condition to ensure input-to-state stability of time delay systems with point-wise dissipation (September 2024).

Teachings

December 2022	Analysis and scientific calculus course of 1A (Fourier transforms 3hours)
January 2023	TP control of Master 1 IMI (3hours)
Setember 2023-January 2024	Analysis and partial differential equation course of 1A (15hours)
April 2024	Sobolev's spaces and distribution theory of Master 1 IMI (4hours).
Since September 2024	Analysis and partial differential equation course of 1A .