Curriculum Vitae

Dr. Lazaros Moysis

Post-Doctoral Fellow
Laboratory of Nonlinear Systems – Circuits & Complexity (LANSCOM)
Department of Physics
Aristotle University of Thessaloniki, Greece
Webpages:
https://scholar.google.gr/citations?user=glV3aJcAAAAJ&hl=en
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Personal Data

Date of Birth	*26-01-1989*
Place of Birth	*Thessaloniki, Greece*
Nationality	*Greek*

Summary of Scientific – Academic Activities

➢ Over 35 International Journal publications and over 20 IEEE Conference contributions.
➢ Peer reviewer for over 40 Journals and Conferences.
➢ Guest Editor in 3 Special Issues.
➢ Organizing committee member in 3 conferences (NSC 2022, MOCAST 2021, 2022).
➢ Citation index >400.

Education

2019 - 2022	Post-Doc. Physics Department, Aristotle University of Thessaloniki (AUTH), Greece. "Observer design for descriptor systems, with applications to synchronization and secure communications using chaotic systems".
2017-2018	9 month service in the Greek Army. Signals Division.
2013-2017	PhD in Mathematical Theory of Systems and Control. Dissertation: Modeling, Reachability and Observability of Linear Multivariable Discrete Time Systems. Department of Mathematics, AUTH. Grade: Excellent.
2011-2013	MSc. Theoretical Computer Science and Systems & Control Theory. Department of Mathematics, AUTH. GPA: 9.8/10
2006-2011	Bachelor. Department of Mathematics, AUTH. GPA: 6.88/10.

Research Interests

➢ Control Systems – Observer Design
➢ Chaotic Systems
➢ Chaos Synchronization
➢ Chaotification
➢ Chaos in Education

Applications of chaos in:
➢ Secure Communications
➢ Random Number Generators
➢ Data Encryption
➢ Area Exploration and Surveillance

Teaching Positions

2021 - 2022	Teaching Associate, Department of Mechanical Engineering, University of Western Macedonia, Kozani, Greece.
2021	Invited Lecturer (remote), Fall Semester, Department of Computer Aided Design, St. Petersburg Electrotechnical University "LETI", Russia.
2019 - 2020	Teaching Associate, Department of Industrial Engineering and Management, International Hellenic University, Sindos, Greece.
2018 - 2019	Teaching Associate, Department of Mathematics, AUTH, Greece.

Scholarships

2019-2021	Post-doctoral studies, State Scholarships Foundation of Greece.
2014	PhD studies, AUTH Research Committee.
2012	MSc studies, State Scholarships Foundation of Greece.

Notable Publications

➢ **Moysis, L.,**Kafetzis, I., Baptista, M., & Volos, C. (2022). Chaotification of One-Dimensional Maps Based on Remainder Operator Addition. *Mathematics, 10(15), 2801*.
➢ **Moysis, L.,**Kafetzis, I., Tutueva, A., Butusov, D., & Volos, C. (2022). Chaos-Based Image Encryption Based on Bit Level Cubic Shuffling. In *Cybersecurity* (pp. 157-191). Springer, Cham.
➢ **Moysis, L.,** Gupta, M. K., Mishra, V., Marwan, M., & Volos, C. (2020). Observer design for rectangular descriptor systems with incremental quadratic constraints and nonlinear outputs—Application to secure communications. International Journal of Robust and Nonlinear Control, 30(18), 8139-8158.
➢ **Moysis, L.,** Volos, C., Jafari, S., Munoz-Pacheco, J. M., Kengne, J., Rajagopal, K., &Stouboulos, I. (2020). Modification of the Logistic Map Using Fuzzy Numbers with Application to Pseudorandom Number Generation and Image Encryption. *Entropy*, *22*(4), 474
➢ **Moysis, L.,**Karampetakis, N., & Antoniou, E. (2019). Observability of linear discrete-time systems of algebraic and difference equations. *International Journal of Control*, *92*(2), 339-355.