

Model F17 - Memoriul științific al studentului doctorand

MEMORIU ȘTIINȚIFIC Drd. GHEORGHE Laura-Alexandra

Studii de doctorat

Perioada: 01.10.2020 - 01.10.2025

Conducător științific: Prof.dr.ing. DOBRESCU Lidia

Domeniu: Inginerie Electronică

Titlul tezei de doctorat: Modelarea Comportamentală a Circuitelor Electronice

Activitate științifică

A. Lista de lucrări științifice (articole în reviste sau volume)

1. **L. A. Gheorghe**, L. Dobrescu, S. S. Varzaru, M. Craciun, D. Dobrescu, "*Behavioral Modeling of Current Reference for LEDs Control Applications*", 229-232, International Semiconductor Conference (CAS), Publisher: IEEE, ISBN 978-1-7281-1073-8, ISSN 1545-827X, WOS:000637264600052, 2020.
2. **L. A. Gheorghe**, D. Dobrescu, I. Busu and L. Dobrescu, "A New Optimization and Statistical Analysis for Widlar Current Source using Predictive MOSFET Models," Publisher: IEEE, 32nd International Conference on Microelectronics (MIEL), Nis, Serbia, 2021, pp. 227-230, DOI: 10.1109/MIEL52794.2021.9569090, 2021.
3. **L. A. Gheorghe**, C.L. Gogu, R.C. Cavache, L. Dobrescu, D.Dobrescu, „Simulation Model for Brushless DC Motor Loads Controlling”, International Semiconductor Conference (CAS), ISSN: 2377-0678 DOI: 10.1109/CAS59036.2023.10303714, Publisher: IEEE, 2023.
4. P.A. Stefanescu, M.J. Cristea, **L.A. Gheorghe**, L.Dobrescu, „Analog-multiply current-mode circuit”, International Semiconductor Conference (CAS), Publisher: IEEE ISBN 979-8-3503-5208-5979-8-3503-5207-8, ISSN 1545-827X, WOS:001361909500074, 2024.
5. M.J. Cristea, **L. A. Gheorghe**, L.Dobrescu, „Behavioral Modelling of Analog Computing Circuit for Artificial Intelligence Neural Networks”, ROMANIAN JOURNAL OF INFORMATION SCIENCE AND TECHNOLOGY, nr.1, volume 28, 2025.
6. A. Dragomir, **L. A. Gheorghe**, L. Gogu, D. Shikhar, Integration of SystemC with PSpice Simulations Models, ECAI, ISBN:979-8-3315-3352-6, ISSN: 2688-0253, DOI: 10.1109/ECAI65401.2025.11095527 Publisher: IEEE, Targoviste, Romania, 17th International Conference on Electronics, Computers and Artificial Intelligence, 2025.
7. **L. A. Gheorghe**, E. Sorega, L. Dobrescu, SPI Digital Twin in MATLAB/Simulink, ECAI, ISBN:979-8-3315-3352-6, ISSN: 2688-0253, DOI: 10.1109/ECAI65401.2025.11095483, Publisher: IEEE, Targoviste, Romania, 17th International Conference on Electronics, Computers and Artificial Intelligence, 2025.

B. Participări la conferințe/workshop-uri

1. Colocviile Școlii Doctorale, online – Teams, 2021;
2. **L. A. Gheorghe**, L. Dobrescu, "*Investigations on Behavioral Modeling – NEW View of the Electronic Circuits*" EPIEM - INNOVATION AND SUSTAINABILITY INTERNATIONAL SCIENTIFIC CONFERENCE, 4th edition, ISSN 2501-6695, ISSN-L 2501-6695, online, October 2020.
3. **L. A. Gheorghe**, D. Dobrescu, „*Application of behavioral modeling for ics investigation*”, INTERNATIONAL ARCHITECTURAL SCIENCES AND APPLICATION SYMPOSIUM, IKSAD, ISBN: 978-625-7464-51-2, online, Turkey, 2021.

Student-doctorand
GHEORGHE Laura-Alexandra