

Proposed topic for doctoral studies admission contest – September 2019

Doctoral field: Electronics, Telecommunications and Information Technologies

Doctoral coordinator: Prof.univ.dr.ing. Petre Lucian OGRUȚAN

Topic

1. Microcontrollers applications (fields: industrial, automotive, educational...): Sensor networks, Energy management, Multicore structures and parallel computing, Data transmissions, Interfacing
2. Electromagnetic Compatibility EMC: EMC testing, Designing for EMC

Recommended bibliography

1. M. Romanca, P. Ogrutan, Embedded computer systems. Applications with microcontrollers, Transilvania University of Brasov, 2011, ISBN 978-973-598-861-6, 236 p
2. P. Ogrutan, Interface and protocols at the physical level and level of the data link, Transilvania University of Brasov, ISBN 978-606-19-0515-7, 2015
3. P. Ogrutan, F. Sandu, Electromagnetic Compatibility, Transilvania University of Brasov, 1999, 146 pages, ISBN 973-98796-9-1
References 1, 2, 3 are available for download at <http://vega.unitbv.ro/~ogrutan/books.htm>
4. John L. Hennessy, David, A. Patterson, Computer Architecture, Fifth Edition: A Quantitative Approach (The Morgan Kaufmann Series in Computer Architecture and Design), 5th Edition, ISBN-13: 978-0123838728

Comment

Admission will take into account the previous scientific activity of the candidates and their achievements in the field of admission. Candidates who have recently graduated from university can mention the presentations at the students' communication session.

Prof. Dr. ing. Petre Lucian OGRUȚAN

