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| Complex exam major subject | Foundations of computer science |
| Syllabus | Classical and non-classical logic; proof theory; artificial intelligence; semantic web; data and text mining; knowledge representation; unconventional computation; computability and complexity theory; formal languages; computer algebra; theory of automata; automata networks, didactics of computer science. |
| Bibliography | <ol style="list-style-type: none">1. C. S. Calude: Computing with Cells and Atoms. Taylor & Francis Publishers London, 2001.2. P. Dömösi, C.L. Nehaniv: Automata Networks, SIAM, Philadelphia, 2005.3. Futó Iván (szerk.): Mesterséges intelligencia, Aula Kiadó, 1999.4. J. Hromkovic, R. Kralovic, J. Vahrenhold (szerk.): Teaching Fundamental Concepts of Informatics. Springer-Verlag Berlin Heidelberg, 2010.5. J.E. Hopcroft, R. Motwani, J.D. Ullmann: Introduction to Automata Theory, Languages, and Computation, Addison-Wesley, 2nd edition, Boston, MA, 2000.6. Pásztorné Varga Katalin, Várterész Magda: A matematikai logika alkalmazásszemléletű tárgyalása, Panem Kiadó, Budapest, 2003. |
| Compulsory subjects for this major subject | |
| Recommended subjects for this major subject | |