

Rza Bashirov (FACULTY MEMBER)

Area:	COMPUTER SCIENCE – APPLIED MATHEMATICS
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Online Research Profiles	https://orcid.org/0000-0002-9037-6225
Research Area Keywords	<ul style="list-style-type: none">➤ Petri nets➤ Bioinformatics➤ Modeling discrete and continuous processes➤ Cryptography and data security
Recent Supervised Theses / Projects	<p>Ph.D. Theses:</p> <ol style="list-style-type: none">1) Exploiting fuzzy stochastic Petri nets to predict targeted efficient drug combinations for Spinal Muscular Atrophy – Recep Duranay (September 2019).2) Exploiting hybrid functional Petri nets to investigate transcriptional activity of hemoglobin switching – Mani Mehraei (July 2016)3) Petri net-based quantitative modeling and validation of p16-mediated signaling pathway – İlke Nimet Akçay (February 2016)4) Exploiting Petri nets to reduce switch crosstalk and path-dependent-loss in optical interconnection networks – Tolgay Karanfiller (February 2012)5) Analyzing the permutation admissibility with CP-nets – Hüseyin Lort (December 2008) <p>M.Sc. Theses:</p> <ol style="list-style-type: none">1) Network-based prediction of COVID-19 epidemic spreading in North Cyprus – Yas Yazdanian (July 2022).2) Qualitative analysis of cancer pathways with transition and place invariants – Gay Yemeli Ngandjou (January 2019).3) Biomodeling with discrete, continuous and hybrid Petri nets – Mansurah Lolade Adam (January 2019).4) Comprehensive analysis of mathematical and computational models of cell cycle – Alma Krivdić (September 2015)5) Performance Analysis of Hill cipher and its modifications – Gülbahar Akgün (February 2014) <p>B-Type Research Projects of T.R.N.C. Ministry of Education:</p> <ol style="list-style-type: none">1) Deciding on permutation admissibility in multistage interconnection networks (MEKB-08-09 - Director: Rza Bashirov; Researcher: Hüseyin Lort; Started on 01.12.2008; Duration: 12 months; Budget: 10,000 TL; Project completed on 01.12.2009) <p>BAP-C Projects:</p> <ol style="list-style-type: none">1) Predicting efficient drug combinations for Spinal Muscular Atrophy using Petri net technologies (PDGC-04-18-0006 - Director: Rza Bashirov; Researchers: Recep Duranay, Adil Şeytanoğlu; Started on 01.10.2018; Duration: 12 months; Budget: 8,000 TL; Project completed on 29.09.2019)