

## Journal papers

1. A Tóth, T Bérczes, A Kuki, B Almási, W Screiner, J Wang, F Wang  
**Analysis of Finite-Source Cluster Networks**  
CREATIVE MATHEMATICS AND INFORMATICS (ACCEPTED)
2. A Kuki, T Bérczes, B Almási, J Wang, J Sztrik  
**Performance Modeling of Finite-Source Cognitive Radio Networks**  
ACTA CYBERNETICA 22: pp. 617-631. (2016) DOI: 10.14232/actacyb.22.3.2016.5
3. Horváth Ádám, Bérczes Tamás  
**Spectrum Renting with Two Finite Source Pools in Mobile Cellular Networks**  
COMMUNICATIONS - SCIENTIFIC LETTERS OF THE UNIVERSITY OF ZILINA 1a: pp. 4-11. (2015)
4. Kuki Attila, Almási Béla, Bérczes Tamás, Sztrik János  
**Modeling a QoS Classified Communication in a Multiuser Wi-Fi Environment**  
INFOCOMMUNICATIONS JOURNAL VI:(3) pp. 10-15. (2014)
5. Tien Van Do, P Wüchner, Tamás Bérczes, János Sztrik, H de Meer  
**A New Finite-source Queueing Model for Mobile Cellular Networks Applying Spectrum Renting.**  
ASIA-PACIFIC JOURNAL OF OPERATIONAL RESEARCH 31:(2) pp. 1440004\_1-1440004\_19. (2014)
6. Wolfgang Schreiner, Tamás Bérczes, János Sztrik  
**Probabilistic model checking on HPC systems for the performance analysis of mobile networks**  
ANNALES MATHEMATICAE ET INFORMATICAЕ 43: pp. 123-144. (2014)
7. T Bérczes, B Almási, A Kuki, J Sztrik  
**The effect of RF unit breakdowns in sensor communication networks**  
INFOCOMMUNICATIONS JOURNAL 5:(2) pp. 11-16. (2013)
8. T Bérczes, B Almási, A Kuki, J Sztrik  
**Modeling the RF Communication in Sensor Networks by using Finite-Source Retrial Queueing System**  
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9. J Biro, T Bérczes, A Korosi, Z Heszberger, J Sztrik  
**Discriminatory Processor Sharing from Optimization Point of View**  
LECTURE NOTES IN COMPUTER SCIENCE 7984: pp. 67-80. (2013)
10. Bérczes Tamás, Sztrik János, Orosz Péter, Pascal Moyal, N. Limnios, S. Georgiadis  
**Tool supported modeling of sensor communication networks by using finite-source priority retrial queues**  
CARPATHIAN JOURNAL OF ELECTRONIC AND COMPUTER ENGINEERING 5: pp. 13-18. (2012)
11. Sztrik János, Bérczes Tamás, Házy Attila  
**The impact of servers breakdown on the performance of proxy cache servers,** CARPATHIAN JOURNAL OF ELECTRONIC AND COMPUTER ENGINEERING 4:(1) pp. 133-138. (2011)
12. Tamás Bérczes, Gábor Guta, Gábor Kusper, Wolfgang Schreiner, János Sztrik  
**Evaluating a probabilistic model checker for modeling and analyzing retrial queueing systems.**  
ANNALES MATHEMATICAE ET INFORMATICAЕ 37: pp. 51-75. (2010)
13. Bérczes Tamás  
**Approximation approach to performance evaluation of Proxy Cache Server systems,** ANNALES MATHEMATICAE ET INFORMATICAЕ 36: pp. 15-28. (2009)
14. Bérczes Tamás, Sztrik János  
**Performance evaluation of Proxy Cache Servers**  
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15. Sztrik János, Bérczes Tamás  
**Performance Evaluation of Proxy Cache Servers**  
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16. Sztrik János, Bérczes Tamás  
**Performance modeling of proxy cache servers**  
JOURNAL OF UNIVERSAL COMPUTER SCIENCE 12:(9) pp. 1139-1153. (2006)

17. Sztrik János, Bérczes Tamás, Kim, Che Soong  
**The impact of multimedia traffic on the performance of proxy cache server**  
ANNALES UNIVERSITATIS SCIENTIARUM BUDAPESTINENSIS DE ROLANDO EOTVOS  
NOMINATAE SECTIO COMPUTATORICA 25: pp. 153-169. (2005)

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18. Bérczes Tamás, Horváth Ádám  
**A Finite-Source Queuing Model for Spectrum Renting in Mobile Cellular Networks**  
Proceedings of the 10th International Conference ELEKTRO 2014., 2014. pp. 26-30. (ISBN:978-1-4799-3720-2)
19. Kuki Attila, Bérczes Tamás, Almási Béla, Sztrik János  
**Investigating the effect of network service breakdown in multilayered cognitive communication system**  
5th IEEE International Conference on Cognitive Infocommunications: CogInfoCom 2014. (ISBN:978-1-4799-7279-1)
20. T Bérczes, B Almási, A Kuki, J Sztrik  
**A contribution to modeling sensor communication networks by using finite-source queueing systems**  
In: Proceedings of 8th IEEE International Symposium on Applied Computational Intelligence and Informatics. 2013pp. 89-93.
21. T Bérczes, A Kuki, B Almási, J Sztrik, P Moyal  
**A new model of finite-source retrial queues with multi-state server's breakdown**  
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22. T Bérczes, J Sztrik  
**Tool supported analysis of queueing systems with Future Internet applications**  
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23. T V Do, R Chakka, J Sztrik, T Bérczes, D Efrosinin  
**An efficient method to solve a two-server heterogeneous retrial queue with threshold policy**  
Abstract & Pre-proceedings of 9th International Conference on Applied Mathematics. 2013.pp. 71-73. (ISBN:978-606-93094-8-3)
24. Kuki Attila, Berczes Tamas, Almasi Bela, Sztrik Janos  
**A queueing model to study the effect of network service breakdown in a CogInfoCom system**  
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25. Stylianios Georgiadis, Pascal Moyal, Bérczes Tamás, János Sztrik  
**A Fluid Limit for the Engset Model - An Application to Retrial Queues**  
ICORES 2013 : Proceedings Of 2nd International Conference On Operations Research And Enterprise Systems. 315 p. (ISBN:978-989-8565-40-2)
26. Tamás Bérczes, Béla Almási, Attila Kuki, János Sztrik, Revaz Kakubava  
**Modeling the Performance and the Energy Usage of Wireless Sensor Networks by Retrial Queueing Systems**  
PM2HW2N'13 Proceedings of the 8th ACM Workshop on Performance Monitoring and Measurement of Heterogeneous Wireless and Wired Networks. 2013. pp. 133-137. (ISBN:978-1-4503-2371-0)
27. Sztrik János, Bérczes Tamás, Guta Gábor, Kusper Gábor, Schreiner, Wolfgang  
**Analyzing a Proxy Cache Server Performance Model with the Probabilistic Model Checker PRISM**  
Proceedings of WWV'09, 5th Int'l Workshop on Automated Specification and Verification of Web Systems. 2009p.
28. Sztrik J, Bérczes T  
**Performance Evaluation of Proxy Cash Servers with Unreliable Web Servers**  
Proceedings of Informatics in the Hungarian Higher Education, 2008pp. 186-191.
29. Sztrik János, Bérczes Tamás  
**A queueing network model to study Proxy Cache Servers**  
Proceedings of the 7th International Conference on Applied Informatics.  
pp. 203-210.1-2

## Technical Reports

30. Wolfgang Schreiner, Tamas Berczes, Adam Toth  
**Modeling RF Communication in Sensor Networks by Probabilistic Model Checking.**  
Research Institute for Symbolic Computation (RISC), Johannes Kepler University, Linz, Austria.,  
Technical report, Oktober 2015 (2015)
31. Wolfgang Schreiner, Tamas Berczes, Adam Toth  
**Analyzing Cluster Scheduling Schemes by Probabilistic Model Checking (Addendum)**  
Research Institute for Symbolic Computation (RISC), Johannes Kepler University, Linz, Austria.,  
Technical report, Oktober 2015 (2015)
32. Wolfgang Schreiner, Tamas Berczes, Adam Toth  
**Analyzing Cluster Scheduling Schemes by Probabilistic Model Checking**  
Research Institute for Symbolic Computation (RISC), Johannes Kepler University, Linz, Austria.,  
Technical report, September 2014 (2014)
33. Wolfgang Schreiner, Tamas Berczes, Adam Toth  
**Analyzing the Energy Efficiency of Cluster Scheduling Schemes by Probabilistic Model Checking.**  
Research Institute for Symbolic Computation (RISC), Johannes Kepler University, Linz, Austria.  
Technical report, December 2014 (2014)
34. Wolfgang Schreiner, Tamas Berczes, Janos Sztrik  
**Probabilistic Model Checking on HPC Systems for the Performance Analysis of Mobile Networks**  
Research Institute for Symbolic Computation (RISC), Johannes Kepler University, Linz, Austria.  
Technical report, September 2013 (2013)
35. Bérczes T, Guta G, Kasper G, Schreiner W, Sztrik J  
**Analysing Web Server Performance Models with the Probabilistic Model Checker PRISM**  
RICS-Linz Report No. 08-17, Johannes Kepler University, Ausztria (2008)
36. Bérczes T, Guta G, Kasper G, Schreiner W, Sztrik J  
**Comparing the Performance Modeling Environment MOSEL and the Probabilistic Model  
Checker PRISM for Modeling and Analysing Retrial Queueing Systems**  
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