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Research interest: Combinatorial optimization; Design and analysis of algorithms; Parallel and distributed algorithms; Soft computing.

Recent publications:

- [1] Baumgartner A., Rudec T., Manger R.: "The design and analysis of a modified work function algorithm for solving the on-line k-server problem", **Computing and Informatics**, Vol 29 (2010), No 4, 681-700.
- [2] Puljić K., Manger R.: "A distributed evolutionary algorithm with a superlinear speedup for solving the vehicle routing problem", **Computing and Informatics**, Vol 31 (2012), No 3, 675-692.
- [3] Rudec T., Baumgartner A., Manger R.: "A fast work function algorithm for solving the k-server problem". **Central European Journal of Operations Research - CEJOR**, Vol 21 (2013), No 1, 187-205.
- [4] Rudec T., Manger R.: "A new approach to solve the k-server problem based on network flows and flow cost reduction", **Computers and Operations Research**, Vol 40 (2013), No 4, 1004-1013.
- [5] Puljić K., Manger R.: "Comparison of eight evolutionary crossover operators for the vehicle routing problem", **Mathematical Communications**, Vol 18 (2013), No 2, 359-375.

Selected publications:

- [1] Manger R., Plantamura V.L. and Souček, B.: "Stimulus preprocessing for holographic neural networks", in **Frontier Decision Support Concepts**, edited by V.L. Plantamura, B. Souček and G. Visaggio, John Wiley and Sons, New York, USA, 1994, pp. 79-90.
- [2] Manger R.: "Solving path problems on a network of computers", **Informatica**, Vol 26 (2002), No 1, 91-100.
- [3] Manger R.: "Composite path algebras for solving path problems in graphs", **ArsCombinatoria**, Vol 78 (2006), 137-150.
- [4] Manger R. and Puljić K.: "Multilayer perceptrons and data compression", **Computing and Informatics**, Vol 26 (2007), 45-62.
- [5] Rudec T., Baumgartner A., Manger R.: "A fast implementation of the optimal off-line algorithm for solving the k-server problem", **Mathematical Communications**, Vol 14 (2009), No 1, 119-134.