



Deputy Director

Lieutenant Colonel Petr Stodola, Ph.D.
Professor

Contact:

Tel.: +420 973 442 474

e-mail: petr.stodola@unob.cz

Research areas:

- Information Analysis Tools
- Modelling, Simulation and Optimization in Intelligence
- Intelligence Cycle Automation.

Scientific publications:

To this date, lieutenant colonel Stodola has authored or directly contributed to the publication of approximately 90 scholarly and scientific texts.

A complete list of publications can be found at:

- <https://scholar.google.cz/citations?user=X5g7OqgAAAAJ&hl=cs&oi=sra>

- <https://www.scopus.com/authid/detail.uri?authorId=26435522100>

- <https://www.webofscience.com/wos/author/record/AAG-6047-2019>





Scientific publications

To this date, Lieutenant Colonel Stodola has authored or directly contributed to the publication of approximately 90 scholarly and scientific texts.

Stodola, Petr – Stodola, Jiří – Furch, Jan. 2022. „[Intelligence Transport Systems](#).“ *Challenges to National Defence in Contemporary Geopolitical Situation. Proceedings of 3rd International Conference CNDGS'2022*, s. 41-49.

Stodola, Petr – Stodola, Jiří. 2022. „[Noise Reduction in the Cab of a Special Vehicle](#).“ *Defence Science Journal*. Vol. 72, Iss. 3, s. 450-458.

Stodola Petr – Otrřisal, Pavel – Hasilová, Kamila. 2022. „[Adaptive Ant Colony Optimization with node clustering applied to the Travelling Salesman Problem](#).“ *Swarm and Evolutionary Computation*. Vol. 70, s. 1-18.

Němec, Petr – Stodola, Petr. 2021. „[Optimization of the Multi-Facility Location Problem Using Widely Available Office Software](#).“ *Algorithms*. Vol. 14, Iss. 4, No. 106, s. 1-17.

Stodola, Jiří – Stodola, Petr. 2021. „[Analysis and Model of Corrosion Wear of Selected Materials used in Special Vehicles](#).“ *Transactions of Famena*. Vol. 45, Iss. 4, 13-27.

Stodola, Petr. 2020. „[Hybrid ant colony optimization algorithm applied to the multi-depot vehicle routing problem](#).“ *Natural Computing*, Vol. 19., Iss. 2, s. 463-475.

Stodola, Petr – Michenka, Karel – Nohel, Jan – Rybanský, Marian. 2020. „[Hybrid algorithm based on ant colony optimization and simulated annealing applied to the dynamic traveling salesman problem](#).“ *Entropy*. Vol. 22, Iss. 8., s. 1-28.

Stodola, Petr – Drozd, Jan, - Mazal, Jan – Hodický, Jan – Procházka, Dalibor. 2019. „[Cooperative unmanned aerial system reconnaissance in a complex urban environment and uneven terrain](#).“ *Sensors*, Vol. 19, Iss. 17, s. 1-16.

Stodola, Petr. 2018. „[Using metaheuristics on the multi-depot vehicle routing problem with modified optimization criterion](#).“ *Algorithms*, Vol. 11, Iss. 5., s. 1-14.

Stodola, Petr. 2017. „[Improvement in the model of cooperative aerial reconnaissance used in the tactical decision support system](#).“ *The Journal of Defense Modeling and Simulation*, Vol. 14, Iss. 4, 483-492.

Stodola, Petr – Mazal, Jan. 2016. „[Applying the ant colony optimisation algorithm to the capacitated multi-depot vehicle routing problem](#).“ *International Journal of Bio-Inspired Computation*, Vol. 8, No. 4, s.228-233.

Stodola, Petr – Mazal, Jan. 2016. „[Tactical decision support system to aid commanders in their decision-making](#).“ *Modelling and Simulation for Autonomous Systems: Third International Workshop, MESAS 2016, Rome, Italy, June 15-16, 2016, Revised Selected Papers 3*, s. 396-406.