



# The 15<sup>th</sup> International Symposium on Operations Research in Slovenia - SOR'19

**Bled, Slovenia, September 25-27, 2019**

<http://sor19.fov.uni-mb.si/>

## Call for Papers for

### **SPECIAL SESSION ON OPTIMIZATION IN HUMAN ENVIRONMENTS**

at The 15<sup>th</sup> International Symposium on Operations Research in Slovenia (SOR '19)  
which will be held in Bled, Slovenia, September 25 – 27, 2019.

**Organized and chaired by: Prof. Dr. Andrej Košir and Prof. Dr. Drago Bokal**

Human environments yield specifically challenging problems for mathematical modeling and optimization due to unpredictable conditions and human factors, as well as due to human desire for creativity that opposes respecting limitations of optimality conditions. Optimization models are regardless ubiquitous in human environments, as for instance, limited amount of time available for desired activities imposes a knapsack optimization problem on every human and organization.

This special session addresses theoretical and empirical studies of optimization in environments where human, user, or some other autonomous agent participates in implementing optimal solution obtained from an underlying mathematical model. In particular, challenges not related to theoretical modelling problems include vaguely defined criterion functions, robustness of solutions, tools aiding efficient implementation of optimal solutions, sensory systems for optimization problem data acquisition, sensory data quality etc.

Prospective authors are invited to submit original papers prepared according to SOR'19 instructions for authors. The papers should address the topics including, but not limited to:

- Optimization models of individual user experience
- Evaluation of stakeholder experience in process optimization
- Criterion functions and users (QoS, QoE, other specific metrics)
- Criterion functions in cultural environments
- Criterion functions in biological environments
- Social signaling and optimization with users
- Planning and implementation of experiments with users
- Sensors and sensory networks for user measurement
- Situational dependence of user models



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- Laboratory and distributed experiments
- Experience sampling

## **DEADLINES:**

- Submission of contributed papers: June 16, 2019
- Referee's reports: July 15, 2019
- Submission of revised papers and copies of bank transfer: August 25, 2019

*Note: When submitting the paper, please, select "Special Session: Optimization in human environments".*