

# Laudation of Györgyi Péter

In 2013, Györgyi Péter graduated from Eötvös University as an applied mathematician specializing in OR. Then, he started his PhD studies under the supervision of Tamás Kis at the same university. Since 2014, he works at Institute for Computer Science and Control, and in 2018 he defended his PhD with a summa cum laude. The title of his thesis was '*Approximation and exact methods for machine scheduling problems with non-renewable resources*'.

His main research topic is machine scheduling, but he also has some papers on vehicle routing. He has been awarded the *Bolyai Scholarship* and, the *Youth Prize* of the Hungarian Academy of Sciences, and also the *Gyula Farkas Memorial Prize* of the Bolyai Society.

The awarded paper '*Approximation algorithms for coupled task scheduling minimizing the sum of completion times*' was published in *Annals of Operations Research* and co-authored with David Fischer, a PhD student at the Hamburg University of Technology at the time. Coupled task scheduling is an old problem, but the research interest in this problem has increased strongly in recent years mainly because of its practical relevance. The contributions of Péter Györgyi to this paper provided the first approximation results on coupled task scheduling if the objective is to minimize the total completion time. The presented algorithms are quite fast and simple, but proving a good approximation ratio often requires a sophisticated analysis. The paper mentions a number of open questions that could lead to further results in this topic.