

## Special sessions

### Novel Technologies and Optimization for Last-Mile Logistics

6th World Congress on Global Optimization (WCGO 2019)

July 8 - 10, 2019, Metz, France

<https://wcgo2019.event.univ-lorraine.fr/>

**Organizers:** Dr. habil. Mahdi Moeini and Dr. Hagen Salewski (Technische Universität Kaiserslautern, Germany).

- Dr. habil. Mahdi Moeini (Chair of Business Information Systems and Operations Research (BISOR), Technische Universität Kaiserslautern, Germany).

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Dr. Mahdi Moeini is holder of PhD and Habilitation in computer science (operations research and optimization) from University of Lorraine and University of Paul Sabatier, respectively. Dr. Moeini is the author of 25 full papers published in journals, conference proceedings, and also as book chapters. His papers and contributions cover a wide a range of topics in operations research an optimization, from theory to applications, and in particular, in last-mile logistics. Since October 2014, Dr. Moeini is lecturer and researcher within the chair of *business information systems and operations research* (BISOR) at the Technische Universität Kaiserslautern, Germany.

- Dr. Hagen Salewski (Chair of Business Information Systems and Operations Research (BISOR), Technische Universität Kaiserslautern, Germany).

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Dr. Hagen Salewski holds a PhD degree in Economics (operations research and service production) from Technische Universität Kaiserslautern in Germany. Dr. Salewski has published 12 full papers in journals, conference proceedings, and other book chapters. His work focuses on the application of operations research to optimize the design and the coordination of services with a more recent focus on transportation services. After working for the chair of production management at the Technische Universität Kaiserslautern, Dr. Salewski is now lecturer and researcher within the chair of *business information systems and operations research* (BISOR) at the same university since 2017.

#### General description of the special session

With the emergence of the new technologies and increasing competitive logistic markets, several large companies of the logistic industry, such as Amazon Inc., Deutsche Post, or Alibaba, are actively investigating the potentials of new technologies, such as drones and autonomous ground

vehicles, in delivering parcels. In the case of drones, the usual prototype consists in delivering light-weighted (e.g., up to 2 kilograms) parcels within a time threshold to customers located in a given radius around warehouses. Autonomous ground vehicles support traditional delivery personnel by following them or do deliveries completely independently from humans. However, the use of new technologies come along with new challenging operative and strategic problems that must be tackled. *The Novel Technologies and Optimization for Last-Mile Logistics 2019 (NTOLML2019)*, Special Session at the 6th World Congress on Global Optimization (WCGO 2019), is devoted to the original contributions that use techniques from operations research (OR), in terms of mathematical models, solution methods, and numerical results, to address the optimization of last-mile logistics or their required networks; in particular, when novel technologies are utilized. Through *NTOLML 2019*, we would like to create an opportunity for researchers and practitioners to exchange ideas, investigate new promising research directions in the area, and publish their original high-quality scientific contributions. The scope of the *NTOLML 2019* includes, but is not limited to, the following topics:

- Logistic applications of unmanned aerial vehicles (UAVs) or aerial drones
- Autonomous ground vehicles (AGV) or autonomous transport vehicles (ATV) in logistics
- Exact algorithms (branch-and-bound, dynamic programming, ...) for solving last-mile logistic optimization problems
- Advanced heuristic methods for solving optimization models addressing the usage of new technologies
- Innovative integration of new technologies in last-mile logistics

**Proposed Session Program Committee (to be invited)**

- Jakob Puchinger, University of Paris-Saclay, France
- Niels Agatz, University of Rotterdam, the Netherlands
- Oliver Wendt, Technische Universität Kaiserslautern, Germany
- Nils Boysen, Friedrich-Schiller-Universität Jena, Germany
- Daniele Vigo, University of Bologna, Italy
- Michael Schneider, RWTH Aachen, Germany
- Dominik Goeke, RWTH Aachen, Germany
- Olivier Gallay, University of Lausanne, Switzerland

**Submission**

Submissions are open at <https://wcgo2019.event.univ-lorraine.fr/page/submissions>  
 (Select the track “Special Session - Novel Technologies and Optimization for Last-Mile Logistics”)

**Important dates:**

|                   |                                      |
|-------------------|--------------------------------------|
| January 31, 2019  | Deadline for the submission          |
| February 28, 2019 | Notification of acceptance/rejection |