COMET: K-Project

**HOPL**
*Heuristic Optimization in Production and Logistics*

<table>
<thead>
<tr>
<th>Main location</th>
<th>Upper Austria University of Applied Science, Campus Hagenberg, Research Group HEAL, Upper Austria</th>
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<tbody>
<tr>
<td>Other locations</td>
<td>JKU, Profactor, Risc SW (all Upper Austria), V-Research (Vorarlberg)</td>
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<td>Research programme</td>
<td>metaheuristics, matheuristics, hybrid modeling and algorithms, simulation-based optimization, nonlinear systems identification</td>
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**Planned realisation and outcomes**

**History of establishment**
- 2002: Founding of research group at the JKU Linz and starting point of development of the optimization framework HeuristicLab
- 2005: Move of research group HEAL (Heuristic and Evolutionary Algorithms) to Upper Austria University of Applied Sciences:
- Main projects:
  - 2005 – 2008: FWF, Translational, L284-N04 Genetic Programming- based techniques for the design of virtual sensors
  - 2008 – 2013: FFG, Josef Ressel Centre, 818420 Heureka! - Heuristische Optimierung
  - 2009 – 2010: FFG, 813760, Procomposite: Nachhaltige Produktionsregelung
  - 2011 – 2012: FFG Bridge, 829679, NPR

**Selected company partners** (max. 10)
1. voestalpine
2. rosenbauer
3. Eurofoam
4. Gebrüder Weiss
5. carvatech
6.
7.
8.
9.
10.

**Selected scientific partners** (max. 5)
1. FH OÖ Research Groups HEAL und Logistikum
2. JKU (Institute PLM und FLLL)
3. Profactor
4. V-Research
5. RISC Software

**Selected international partners** (max. 5)
1. Technische Universität Riga, Latvia
2. University of Calabria, Italy
3. Universidad de Malagá, Spain
4. Michigan State University, USA
5. Universidad de La Curuna, Spain

**Planned start of the K-Project**
May 2014 (4 years)

**Planned number of personnel**
approx. 8 (FTE) are involved (approx.. 6 FTE are scientists)

**Total costs**
EUR 3.280.000

**Leader of consortium:**
Prof. Dr. Michael Affenzeller, Upper Austria University of Applied Science, Head of research group HEAL and professor for heuristic optimization and machine learning

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1 Partners with headquarters outside Austria