COMET CENTRE (K1)

SOFTWARE COMPETENCE CENTER HAGENBERG GMBH
RESEARCH PROGRAMME: INTEGRATE –
COMPETENCE CENTER FOR INTEGRATED SOFTWARE AND AI SYSTEMS

Main location: Hagenberg (Upper Austria)
Other locations: Linz (Upper Austria)
Thematic area: Digitalization / ICT

Thematic focuses

- Integrated Software and AI Systems
- Data and AI Modelling
- Software Systems Engineering
- Integrated Monitoring and Diagnosis
- Emerging Computing Technologies (e.g., Quantum Computing)

Planned realisation and outcomes

Research on an integrated software and AI engineering cycle that combines data and AI modelling, software evolution, as well as standard/regulation conformity and that is also ready for upcoming emerging technologies.

Solutions for digital challenges (e.g., support in mitigating the current global climate and environmental crisis while preserving human values) that cannot be addressed by focusing on a single digital enabler alone (such as Artificial Intelligence (AI)), but requires an integrated effort in AI, software, and upcoming emerging technologies such as quantum and neuromorphic computing – demanding cross-cutting and integrated research in all these domains. At the same time, the immanent requirements and upcoming standards and regulations for safety, security, energy-efficiency and ethical conformity need to be considered and ensured.

Thus, research on emerging computing technologies, especially quantum and neuromorphic computing, transferable and hybrid AI systems, software systems engineering for no-code and low-code approaches, and ensuring standards and regulations before and after deployment regarding reliability, security, resource efficiency and ethical policies.

History of establishment

The Software Competence Center Hagenberg was founded in July 1999 within the framework of the K plus Competence Center Program as an initiative of the Johannes Kepler University Linz. Since January 2008, the SCCH is a COMET K1 Center with a focus on Data Science and Software Science.

Selected company partners (max. 10)**:**
1. BMW Motoren GmbH
2. Borealis Polyolefine GmbH
3. ENGEL AUSTRIA GmbH
4. EREMA Engineering Recycling Maschinen und Anlagen GesmbH
5. Fronius International GmbH
6. GE Healthcare Austria GmbH & Co OG
7. Kapsch TrafficCom AG
8. KEBA Group AG
9. STARLIM Spritzguss GmbH
10. TRUMPF Maschinen Austria GmbH & Co.KG

Selected scientific partners (max. 5)**:**
1. Johannes Kepler University Linz
2. Chalmers University of Technology
3. École polytechnique fédérale de Lausanne
4. Radboud University
5. University of Mannheim

Selected international[1] partners (max. 5)**:**
1. Robert Bosch AG
2. Dynatrace GmbH
3. Siemens Energy GmbH
4. Czech Technical University in Prague
5. KTH Royal Institute of Technology

Duration:	01.01.2023 - 31.12.2030 (8 years)
Staff employed at the Centre:	83,5 FTE, thereof 70,9 scientists
Management:	Dipl.-Umweltwiss. Mag. Markus Manz, CEO
	Prof. Dr. Robert Wille, CSO
	Dr. Bernhard Freudenthaler, COO
Contact:	Software Competence Center Hagenberg GmbH
	Softwarepark 32a, 4232 Hagenberg
	+43 50 343
	office@scch.at
	www.scch.at

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www.ffg.at/comet

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[1] Partners with headquarters outside Austria