

Intelligent Systems and Business Informatics

Konstantin Schekotihin

Research Areas

- Knowledge representation and reasoning
 - Configuration, planning, and scheduling
 - Model-based diagnosis
 - Stream reasoning
 - Knowledge-based recommender systems

Research Areas, cont'd

- Knowledge acquisition and maintenance
 - Machine learning for image and text processing
 - Knowledge graph construction and application
- Learning for automated problem solving
 - Reinforcement learning for scheduling and planning
 - Digital Twins for production environments
 - Domain heuristics and lazy grounding of ASP programs
 - Symmetry-breaking for optimization

Recent Projects

- **ONTIS** – Ontology-based interoperability of systems (EU EFRE)
 - Ontologies and machine learning for the interoperability of legacy databases
- **DynaCon** – Dynamic knowledge-based (re)configuration of cyber-physical systems (FFG)
 - Stream reasoning and heuristic-based solving to enable best possible operations of industrial systems
- **Productive 4.0** – Electronics and ICT as enabler for digital industry and optimized supply chain (EU ECSEL)
 - Scheduling applications for production of microelectronics

Contact Information

Konstantin Schekotihin

Email: Konstantin.Schekotihin@aau.at

Alpen-Adria-Universität Klagenfurt
Institut für Artificial Intelligence und Cybersecurity
Universitätsstraße 65-67
9020 Klagenfurt am Wörthersee
Austria