Research Profile

Overview

AGH University of Science and Technology (AGH UST) in Krakow, Poland, founded in 1919, is ranked as one of top Polish universities involved in research and education in information technologies and computer science. The university consists of 15 Faculties from number of domains, including the Electrical Engineering and Business Management. It employs about 2000 faculty members serving over 33 000 students within undergraduate, postgraduate and continuing education programmes.

Department of Automatics (DoA) is a part of the Faculty of Electrical Engineering, Automatics, IT and Electronics and is an important centre for education and research. The Department faculty and staff consist currently of over 100 people including 10 professors. Since 1995 the Since 1995 the Department has been involved in number of European Projects (e.g. TEMPUS, COST, ERASMUS, ESPRIT II). Professors and researchers of the Department served as advisories for number of companies, and regulatory bodies in Poland and abroad. Faculty members have been active in professional societies, organizing international conferences (e.g. IFIP events) and workshops.

Other distinctive departments include the Department of Telecommunications (DoT) that has been extensively involved in various European projects within ACTS (BBL, BTI, BIDS), IST (LION, MOBY DICK, NOBEL, DAIDALOS), Copernicus (MOCOMTEL, KNIXMAS), and Esprit programmes.

Group for Engineering of Intelligent Systems Technologies (GEIST) led by Professor Antoni Ligęza is a part of the Computer Science Lab at the DoA. It is active in the areas of intelligent systems, knowledge and software engineering, Internet technologies and databases. The group has been involved in number of research project. Since 2007 the group has been coordinating the HeKatE project, developing advanced knowledge representation and reasoning methods for intelligent systems, bridging knowledge and software engineering. Since 2008/9 it has been involved in the INDECT project coordinated by the DoT.

Main research areas and activities

Design, Implementation and Verification of Rule-Based Systems and Business Rules

The GEIST team has deep theoretical and practical experience in Rule-Based Systems. The HeKatE project (2007-9) delivered conceptual design methods and practical tools. These tools are being actively used and extended to support the design of Business Rules and Processes.

Members of the team co-organize the DERIS and RuleApps workshops related to the area.

Semantic Knowledge Engineering with Semantic Wikis

The GEIST team has practical experience in building and applying semantic wikis in knowledge

engineering. Recently a prototype system called PlWiki has been developed and presented at the ICCCI conference. Members of the team work with partners from the University of Wuerzburg in Germany, the developers of the KnowWE system, on the implementation of the next generation of semantic wikis.

Members of the team co-organize the KESE workshop related to the area.

Other research areas

Recent activity

Members of GEIST are involved in numerous events, including: KESE, DERIS, CMS, RuleApps.

Read more...

Recent projects

For a list of recent projects see here.

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