# GEIST Research Projects

The group has been involved in number of research projects.

## Current projects

### Prosecco

Read more on Prosecco which is a 32 months long NCBR PBS project started in 2012-12. The goal of the project is to address the needs and constraints of small and medium enterprises (SME) by designing methods that will significantly improve their Business Process Management systems.

See the official project webpage at: prosecco.agh.edu.pl

### SaMURaI

Read more on SaMURaI, which is a 24 months long NCN project started in 2012-09. The main objective of the project is the development of a *Semantic Method for Unified Rules Interoperability in Knowledge-Based Systems*.

### HiBuProBuRul

Read more on HiBuProBuRul, which is a 24 months long NCN project started in 2012-09. The main objective of the project is the development of a *Methodology for designing Hierarchical Business Processes integrated with Business Rules*.

### Headline

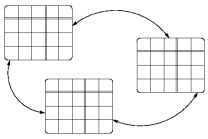
Read more on GEIST participation INDECT, which is a large EU collaboration project coordinated by Department of Telecommunications of AGH. The aim of the project is the development of an intelligent information system supporting observation, searching and detection for security of citizens in urban environment.

See the official project webpage at: www.indect-project.eu

## Completed projects

### Parnas

**Read more on Parnas**, which was a 18 month long NCN project on *tools for inference control and quality analysis in modularized rulebases*.



See the project webpage at: parnas.ia.agh.edu.pl

### BIMLOQ

**Read more on BIMLOQ**, which was 32 month long NCN project on *business models and processes optimization for quality*.

See the project webpage at: bimloq.ia.agh.edu.pl

### HeKatE

**Read more on HeKatE**, which was a 30 month long NCN project on *hybrid knowledge engineering methodology for knowledge-based systems*.

See the project webpage at: hekate.ia.agh.edu.pl

## Past projects

The members of the group were involved in several projects. Selected projects include:

#### Adder

*ID*: KBN 4 T11C 035 2
*Timeline*: 2005→2006
*Leader*: Tomasz Szmuc
*Principal investigators from GEIST*: Marcin Szpyrka, Antoni Ligęza, Grzegorz J. Nalepa
*Objective*: research on formal methods in design of correct real-time and embedded systems, including rule-based systems
*GEIST members' contribution*: methods and tools for design and analysis of rule-based security systems
Adder webpage: home.agh.edu.pl/~adder

#### Mirella

*ID*: KBN 4 T11C 027 24
*Timeline*: 2003→2004
*Scientific adviser*: Antoni Ligęza
*Principal investigator*: Grzegorz J. Nalepa
*Objective*: proposal of an integrated process of visual design, formal analysis and implementation of

rule-based expert systems, supported by a CASE tool, preparation of a PhD thesis: Meta-Level Approach to Integrated Process of Design and Implementation of Rule-Based Systems
Mirella webpage: mirella.ia.agh.edu.pl

**Regulus**

*ID*: KBN 8 T11C 019 17
*Timeline*: 1999→2001
*Leader*: Antoni Ligęza
*Principal investigators from GEIST*: Antoni Ligęza, Grzegorz J. Nalepa
*Objective*: development of formal methods for knowledge representation and engineering in artificial intelligence
Regulus webpage: regulus.ia.agh.edu.pl

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