

# GEIST Research Projects

The group has been involved in number of research projects.

## Current projects

- **Prosecco**
- **SaMURal**
- **HiBuProBuRul**
- **INDECT**

## Completed projects

- **Parnas**, 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](http://parnas.ia.agh.edu.pl)
- **BIMLOQ**, 32 month long NCN project on *business models and processes optimization for quality*, see [the project webpage at: bimloq.ia.agh.edu.pl](http://bimloq.ia.agh.edu.pl)
- **HeKate**, 30 month long NCN project on *hybrid knowledge engineering methodology for knowledge-based systems*, see [the project webpage at: hekate.ia.agh.edu.pl](http://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](http://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](http://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](http://regulus.ia.agh.edu.pl)

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Last update: **2013/01/05 13:04**

