Main research areas of KEG:
- Knowledge Discovery from Databases
- Web Content & Structure & Usage Mining, Web Search Technology
- Ontology Design & Learning & Mapping
- RDF technology & Topic Maps
- Multimedia Semantics
- Inference in KB’d Systems
- Soft Computing and Fuzziness
- Natural Language Processing
- Web Engineering & XML Technologies

Permanent research and teaching staff:
Prof. Petr Berka, Dr. Jiří Ivánek, Dr. Petr Jirků,
Dr. Jan Rauch, Dr. Vilem Sklenák (Head of KIZI),
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Dr. Miroslav Vacura

Some home-grown software solutions

- **LISp-Miner**
  A complex toolbox for knowledge discovery in large databases, in the form of richly structured association rules, decision rules etc. Inspired by GUHA method. Highly optimised performance, experience on medical, financial, engineering, social science and other data.

- **NEST**

- **Relaxed**
  A validator of HTML and compound XML documents, based on Relax NG, Schematron patterns and NVDL. Usable e.g. as Web Accessibility assessment tool.

- **Ex**
  A tool for web information extraction based on extraction ontologies. Also includes a wrapper component and possibility to call inductive learning components.

Running EU projects with funded partnership
- **K-Space**: Knowledge Space of Semantic Inference for Automatic Annotation and Retrieval of Multimedia Content (NoE, 2006-2008)
- **KP-Lab**: Knowledge Practices Laboratory (IP, 2006-2010)
- **MedIEQ**: Quality Labeling of Medical Web Content using Multilingual Information Extraction (STREP, 2006-2008)

Past EU-funded projects
- **M-CAST**: Multilingual Content Aggregation System based on TRUST Search Engine (SSA, 2005-2006)
- **TARSKI**: Theory and Applications of Relational Structures as Knowledge Instruments (COST, 2001-2005)
- **MiningMart**: Enabling End-User Datawarehouse Mining (2000-2002)
- **Solomon European Network**: Data Mining and Decision Support for Business Competitiveness (2000-2002)

Non-funded membership (in network projects)

Subjects interested in collaboration should send an email to svatek@vse.cz