

# PROJECT COLLABORATION

This project (P3) is a part of the interdisciplinary and inter-institutional program: "**Computational Knowledge Discovery Methods in Scientific Applications**", which consists of the following seven (7) projects:

P1 – Machine Learning Algorithms and their Applications

P2 – Real Life Data Measurements and Characterization

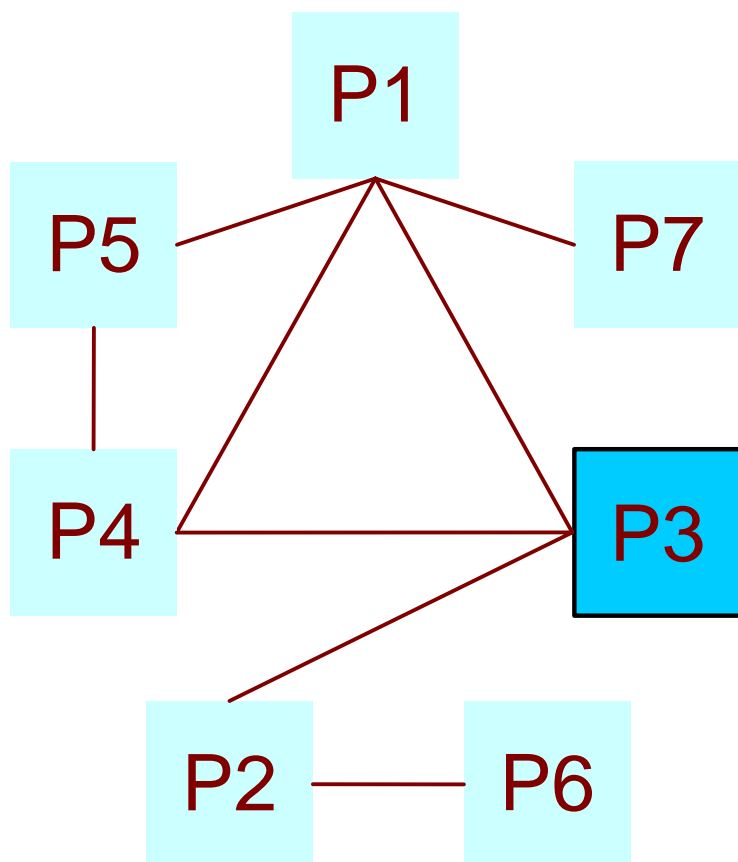
P3 – Intelligent Image Features Extraction in Knowledge Discovery Systems

P4 – Targeting Bio-science Problems Using Novel Computational Intelligence Concepts

P5 – Generation of Potential Drugs In-silico

P6 – Computational Intelligence Methods in Measurement Systems

P7 – Predictive Models for Public Health



## Detailed description of the collaboration between P3 project and other projects

### P3 - P1 collaboration

Feature extraction by P3 and data mining system by P1 could lead to supreme knowledge discovery approach. An example of joint effort to solve a difficult problem is classification of mammography breast cancer images, but other domains will be tested as well.

### P3 - P2 collaboration

Collaboration is possible through sharing methodology for effective data compression and retrieval using novel approach to indexing, especially should those data be images or video. There is a possibility of inter-project collaboration in human locomotion and jaw movement analysis as well.

### P3 - P4 collaboration

Collaboration between P3 and P4 will concentrate on extraction of reliable features from images obtained in 1D and 2D SDS-PAGE experiments, and building predictive models based on this features. Construction of the new software solution combining image feature extraction and learning predictive models for specific problems will be a final goal of the collaboration.