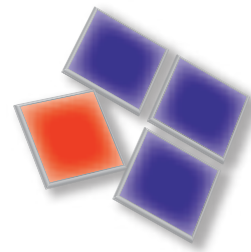




# PatternLab



## RESEARCH, DEVELOPMENT, CONSULTING IN INFORMATION ENGINEERING

*Patterns are everywhere. From daily movement of stock prices to consumer behavior, to the arrangement of base pairs in DNA sequences, an enormous amount of information is available to today's companies. We apply modern techniques to help you analyse, classify, predict, and learn from your data. By using pattern recognition, an approach that marries signal processing, statistics, and computer science, we can extract the most important aspects of the data, and use it to help you achieve your business goals.*

### WHO WE ARE

PatternLab Sàrl is a scientific consulting company founded by researchers from the Swiss Federal Institute of Technology Lausanne (EPFL).

The company is managed by Dr. Jonas Richiardi and Dr. Krzysztof Krzyszcuk, who bring many years of experience in pattern recognition and signal processing, with backgrounds covering electrical engineering, speech and natural language processing, cognitive systems and experimental psychology.

We maintain active links with academic and industrial research organizations as well as with relevant EU joint research initiatives, which allows us to keep up to date with state of the art techniques. We have authored a number of peer-reviewed publications in international journals and conferences.

We have delivered solutions to industrial and academic customers in Switzerland, the Middle East, and Europe.



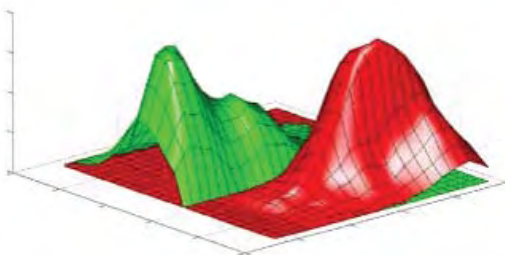
### CORE COMPETENCES

#### Multi-dimensional signal processing and statistics

*From time-series analysis, through image processing, to complex bioinformatic recordings, we process your data to extract the essential information. We compute descriptive and inferential statistics of your data.*

#### Data modeling

*Domain dependent, we build stationary or dynamic models of your data, using techniques, including Bayesian methods, parametric and non-parametric.*



#### Pattern Recognition and Classifier design

*We construct classifier systems for all applications where data must be compared and classified at greater speed, accuracy and reliability than any human could achieve.*

#### Data mining and knowledge discovery

*Using clustering and statistical inference, we analyse the data to find meaningful structures, aggregations, and dependencies between variables involved. We can also apply our methods to large text collections.*

### OUR OFFERING

From engineering problem to full product, PatternLab offers services in the following form:

- > Custom applied research
- > Feasibility studies
- > Design of prototypes
- > Software/hardware development
- > Independent testing
- > Choice of technology
- > Usability testing

We have experience in serving clients in several markets and application domains:

- > Biometrics
- > Content management
- > Medical diagnosis
- > Biostatistics
- > Bioinformatics
- > Industrial metrology

