TOULOUSE TECH TRANSFER

P3S: automatically detect a problem in your system before it happens

For complex systems which cannot be modeled, how to learn about the system using data ? For example how to predict a possible failure in a car's engine using sensors data ? When is it best to stop an industrial process for maintenance ?

DESCRIPTION*

P3S Learning software

- Machine learning enables prediction of « situations » (problems, operating modes, etc.) learned from training data
- Based on fuzzy logic, learning can be unsupervised or supervised
- The field expert can adjust the learning settings so that the data clustering detects relevant « situations »

P3S Realtime data clustering software

- Configured during learning phase
- High perf. clustering algorithm to be used in production on real data
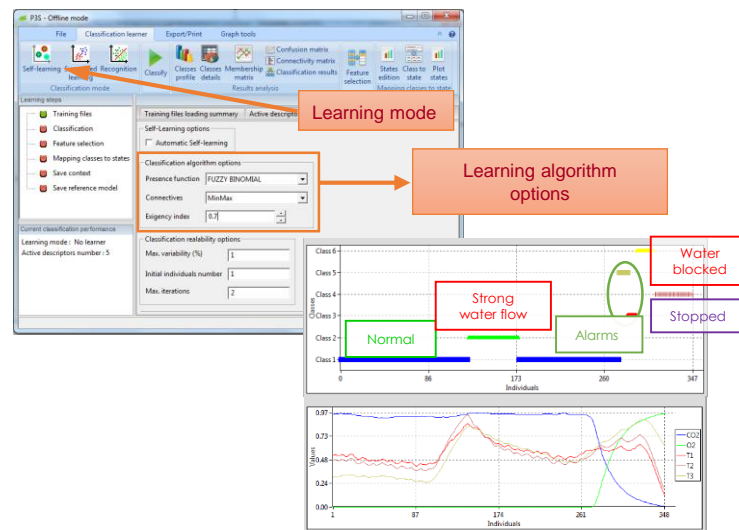
COMPETITIVE ADVANTAGES

- Flexibility on input data
- Scalable
- Quick learning phase
- Directly usable by a field expert
- Clustering algorithm suitable for realtime applications

APPLICATIONS

- Monitoring of multi-variable systems
- Industrial process control
- Genomics for medical diagnosis
- Robotics
- Wearables (pattern recognition)
- Finance
- Predictive Maintenance
- Promotion Engine

INTELLECTUAL PROPERTY

- Software

DEVELOPMENT STAGE

- Technology demonstrated in relevant environment

1	2	3	4	5	6	7	8	9

LABORATORY

- DISCO team

LAAS CNRS

TECHNICAL SPECIFICATIONS

Data	- Numeric - Intervals, e.g. [2...10] - Qualitative, e.g. [open, closed]
OS (data analysis)	Windows
Clustering algorithm	Low memory, low cpu, OS independant

CONTACT

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