



Extract the essentials. To explain, predict and optimize.

xtractis® is a cutting-edge solution for predictive analysis, providing automatic extraction of non linear models and identification of optimal solutions.

xtractis® originates from the latest advances in Fuzzy Logic coupled with Machine Learning to offer an innovative and powerful tool for decision making assistance: it defines an interface between linguistic and numeric concepts, merging qualitative and quantitative data. Moreover, it includes an intensive assessment of the robustness of the extracted models.



For what kind of issues?

xtractis® identifies and makes explicit any relationship existing between data sets of different types:

- hedonic evaluations / liking / preference ▶ subjective data
- instrumental / formulation / socioeconomic ▶ objective data
- qualified assessors evaluations / sensory ▶ subjective objectivized data

A modular and comprehensive software solution

GENERATE

Thanks to its outstanding extraction engine, **GENERATE** automatically identifies efficient models from your databases (even if incomplete or with a high dimensionality).

You discover relationships between explanatory and studied variables expressed as interpretable models

PREDICT

Thanks to its powerful inference engine, **PREDICT** allows you to predict the behaviour of your complex processes in real time.

You accelerate your test or simulation cycles as you get instant responses from your models

OPTIMIZE

Thanks to its unique non linear model inversion algorithms, **OPTIMIZE** proposes in one click exact optimal solutions satisfying your multi-objective request.

You benefit from shorter design and prototyping cycles by directly reaching targeted objectives

Robust and operational models

DESCRIPTIVE MODELS

- ▶ translate the modelled process into linguistic decision rules.

PREDICTIVE MODELS

- ▶ predict the outcome of the studied variable given a new simulated situation.

ROBUST MODELS

- ▶ maximize the relevance of the prediction in unknown situations.

INVERTIBLE MODELS

- ▶ allow the discovery of exact optimal solutions (expressed on original variables).

Contact us for a free analysis of your needs:

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