WHAT DOES AI "THINK" ABOUT LEGAL PROCEEDINGS?

Litigation Data Analysis
COURT AND INFORMATION

higher courts

( regional commercial )

court

cases

decisions

law

economics

Litigation data analysis
SYSTEMS THEORY APPROACH

- System theory
- Digital Legal Studies
- Sociology

**litigation analytics**
- characteristics of court cases
- characteristics of court decisions

**complex | dynamic systems**
- input data flow
- system actions
- output data flow

**data analysis**
- measurable parameters
- time series of parameters
- correlations, clusters, patterns, trends...
Litigation data analysis

INFORMATION ⇒ DATA

- economic status
- reputation
- litigation experience
- complexity
- content category
- dispute claims
- gross regional product
- currency rate
- inflation rate
- changes in legislative acts
- resolutions of the Constitutional Court
- appeal decisions
- cassation decisions
- organizational support of the courts activities
- court workload
- qualification of judges

party background

complexity of proceedings

legal PROCEEDING

duration

type (online, simplified, ...)

winning party

degree of satisfaction

regulatory environment

courts system influence

circumstances
DATA DRIVEN ANALYSIS

Descriptors (algebra/statistics)

Metrics (topology)

Time series (econometrics)

Classification (computer vision)

Patterns (machine learning)
COMPLEX DATA OF COMPLEX SYSTEMS (COURTS)

- 83 regional courts
- 46 content categories
- 32 measurable parameters
- 10 years history

January 2001 - December 2001
WHAT DO WE ASK AI ABOUT?

find something...
EXAMPLE: COURT'S WORKLOAD

by case content

by court
NUMERICAL ANALYSIS OF COURTS AS SYSTEMS

- Raw Information
- Structures, relations
- Expertise, studies

- System management
- Data analysis
- Data
Data Science ◯ Legal Studies = Legal Data Analysis

Thanks for your attention

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