

Evolution in the Usage of AI in Parliaments



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CRACKING THE CODE

RULEMAKING FOR HUMANS AND MACHINES



digital.nsw

Digital Transformation Policy Design System Get Involved Blog

Rules as Code – NSW Joins the Worldwide Movement to Make Better Rules



Digital-ready policies



European Commission

Law as Code

Digital-ready policies: Components and enabler



1. User-centric processes ready for automation



2. Alignment with digital policies



3. Once-only principle and reuse of data



4. Evolving ICT landscape



5. Innovation & Digital technologies



6. Digital-ready drafting



Enabler:
Multidisciplinary teams

Families of Applications of AI in Parliaments

- Administrative tasks
- Legislative tasks
- Participation tasks

eLegal evolution

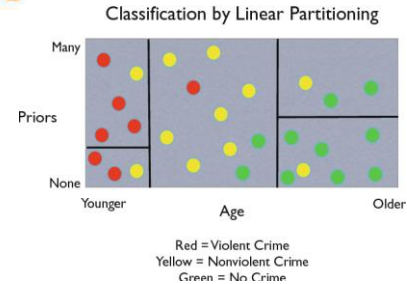


EUR-Lex

at4am



EU Open Data Portal



```
pragma solidity ^0.4.17;  
  
contract SimpleStorage {  
    uint storedData;  
  
    function set(uint x) public {  
        storedData = x;  
    }  
  
    function get() public view returns (uint) {  
        return storedData;  
    }  
}
```



1990s

2000s

2010s

2020s

2030s

AI and Law

Logic programming – Symbolic AI

Semantic Web and Knowledge representation

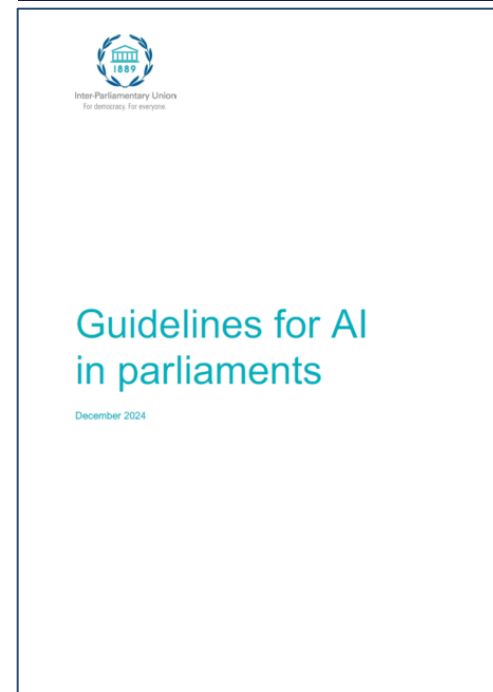
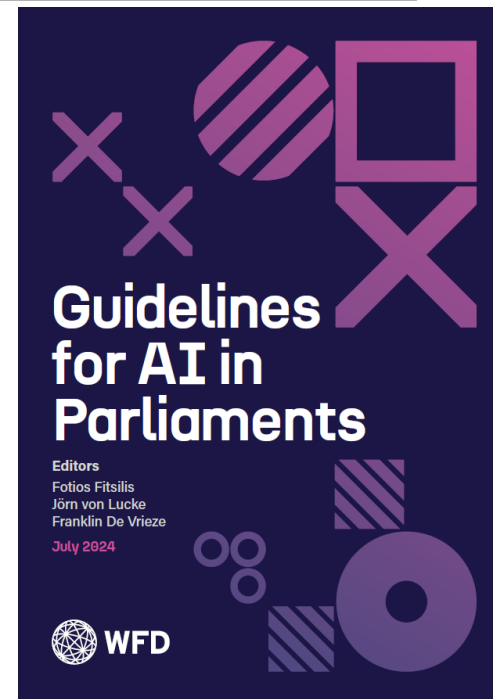
ML, Classification, clustering, NLP, predict

Legal data analytics

Blockchain & Smart Contract

Critical issues in legal domain

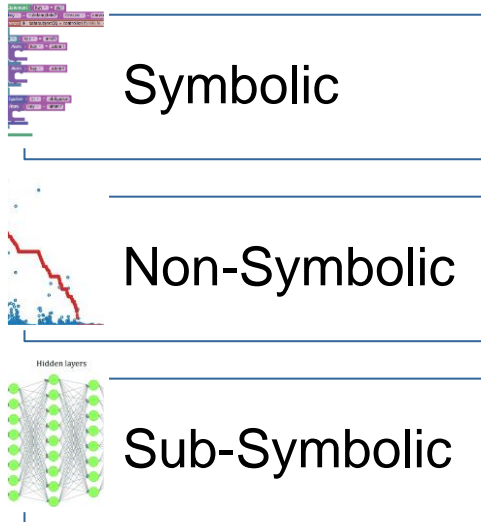
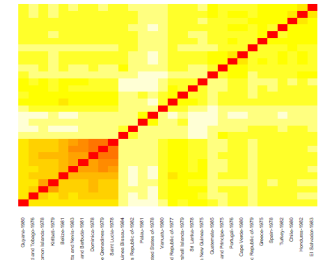
- Provenance of the legal sources
- Data/Platform sovereignty
- Explicability, Transparency, Accountability
- Bias, Discrimination, Risk assessment
- Parliamentary Autonomy
- Separation of Powers
- Integrity of democratic processes (e.g., rules of law)
- Free Mandate (e.g., not depending to the technology)
- Continuity of Power (e.g., blackout)



Hybrid AI for Legal Domain



Similarity World Constitutions

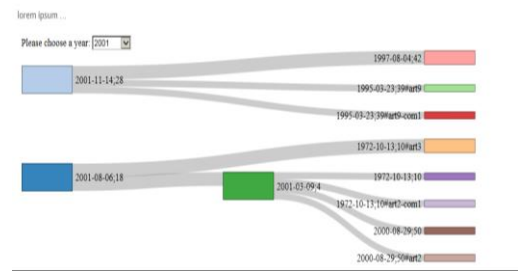
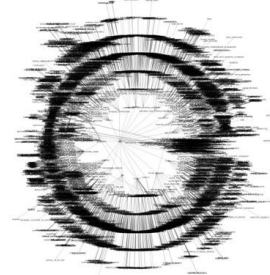
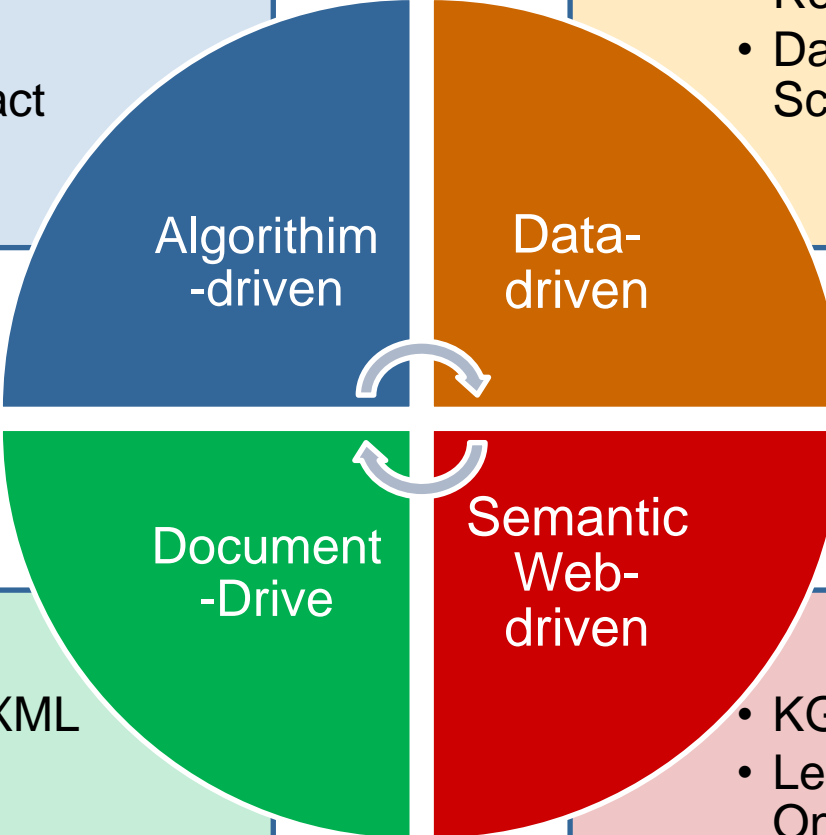


- AI
- Smart Contract

- Regression
- Data Science

- LegalXML

- KG
- Legal Ontology



Critical issues in legal domain

Structure: LLM works at **sentence level/document level** and this approach is not capable to understand the structure (e.g., sequence of articles)

Context: LLM loses the **context** (e.g., jurisdiction, temporal parameters)

Innovation: LLM depends to the **past data series** (e.g., new brilliant solution has no historical series)

Reference: ML does not consider the **normative and juridical citations**. The normative references evolve over time (e.g., art. 3 is not the same forever)

Time: the LLM is **timeless** and the legislation is integrated in the legal system

#AKN for “White box” approach in AI

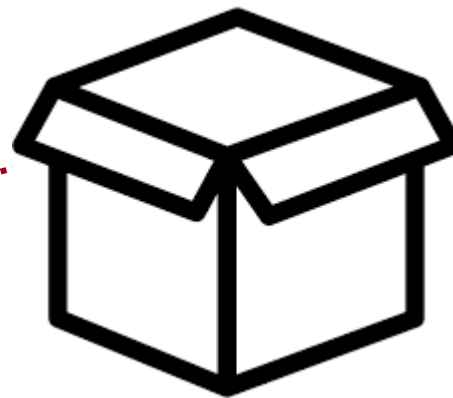


AKOMA NTOSO

Architecture for Knowledge-Oriented Management of African Normative Texts using Open Standards and Ontologies

OASIS LegalXML

LegalRuleML



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Your right of data access

8.1. You are entitled to receive a copy of your personal data that is in our possession (your right of data access).

Your right to erasure and rectification

8.2 You may request the deletion of personal data or the correction of inaccurate personal data (your right to erasure and rectification). Please note that we may keep certain information concerning you, as required by law, or when we have a legal basis to do so (e.g., our legitimate interest to keep the platform safe and secure for other users).

Your right to object to processing

8.3 You have the right to object at any time (i) to the processing of your personal data for the purpose of direct marketing, or (ii) to the processing of your personal data for other purposes on grounds relating to your particular situation (your right to object to processing). Please note that in the latter case, this right only applies if the processing of your personal data is based on our legitimate interest.

Your right to restriction to processing

8.4 You have the right to restrict the processing of your personal data (your right to restriction of processing). Please note that this only applies if (i) you contested the accuracy of your personal data and we are verifying the accuracy of the personal data, (ii) you exercised your right to object and we are still considering, as foreseen by the applicable law, whether our legitimate grounds to process your personal data in that case override your interests, rights and freedoms; or (iii) your personal data has been processed by us in an unlawful way but you either oppose the erasure of the personal data or want us to keep your personal data in order to establish, exercise or defend a legal claim.

Lawyer-readable

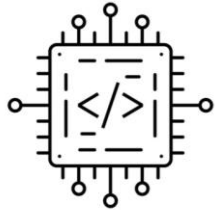
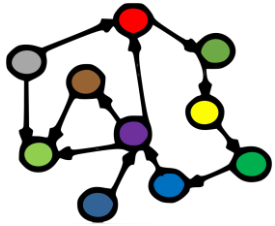
Machine-readable

Human-readable

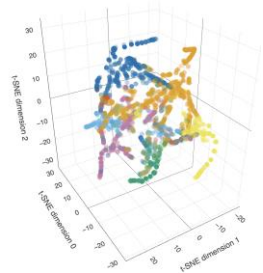
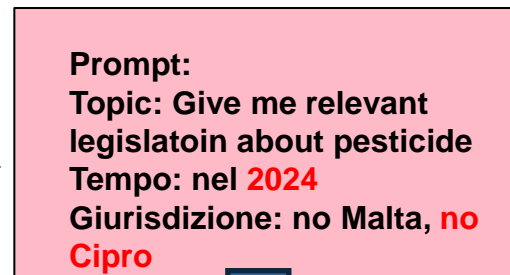
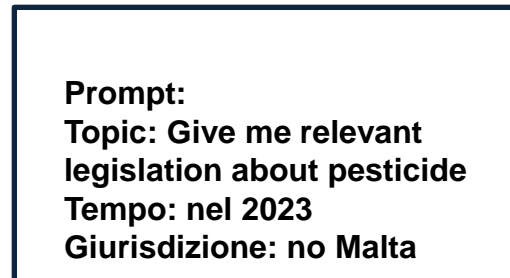
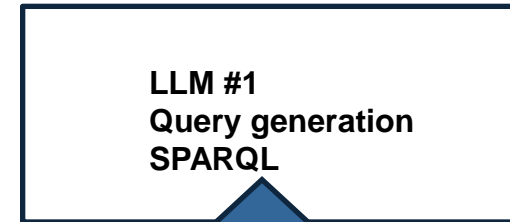
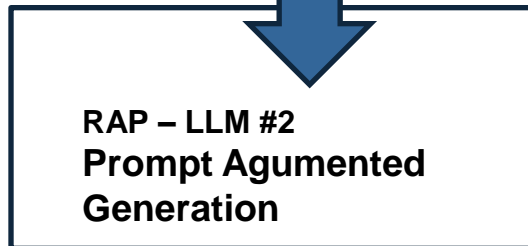
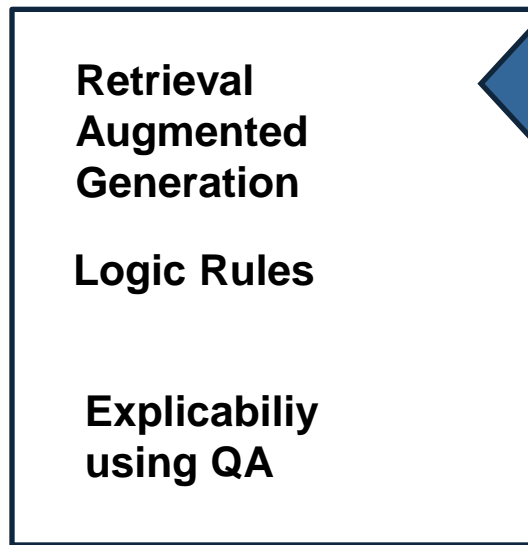


AKN+RAG+Legal Ontology+KG

Knowledge Graph



Embedding



Monitoring and Measuring the Policy



AKOMA NTO

Architecture for Knowledge-Oriented Management of African Normative Texts using Open Standards and Ontologies

Testo

Informazioni sul documento

Procedimento

Sintesi del documento

Salvare nei "miei elementi"

Link aggiornato

Link permanente

Scaricare la nota

Segui questo documento

Indice

Nascondi le versioni consolidate

12/08/2022

01/11/2019

Atto giuridico

CHAPTER IX
REVIEW

Article 29
Reports and review

1. Within 36 months of the date of entry into force of the delegated act adopted by the Commission pursuant to Article 4(9), the Commission shall, after consulting ESMA, submit a report on the effectiveness, efficiency and proportionality of the obligations laid down in this Regulation to the European Parliament and to the Council, together with any appropriate proposals. That report shall include, in particular, an overview of similar reporting obligations laid down in third countries taking into account work at international level. It shall also focus on the reporting of any relevant transactions not included in the scope of this Regulation, taking into account any significant developments in market practices, as well as on the possible impact on the level of transparency of securities financing operations.

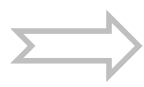
For the purposes of the report referred to in the first subparagraph, ESMA shall, within 24 months of the date of entry into force of the delegated act adopted by the Commission pursuant to Article 4(9), and every three years thereafter, or more frequently where significant developments in market practices arise, submit a report to the European Parliament, to the Council and to the Commission on the efficiency of the reporting, taking into account the appropriateness of single-side reporting, in particular in terms of reporting coverage and quality as well as reduction of reports to trade repositories, and on significant developments in market practices with a focus on transactions having an equivalent objective or effect to an SFTR.

2. Following completion of, and taking into account, work at international level, the report referred to in paragraph 1 shall also identify material risks related to the use of SFTRs by credit institutions and listed companies and analyse the appropriateness of providing for additional disclosure by those entities in their periodical reports.

Obbligations

LegalRuleML

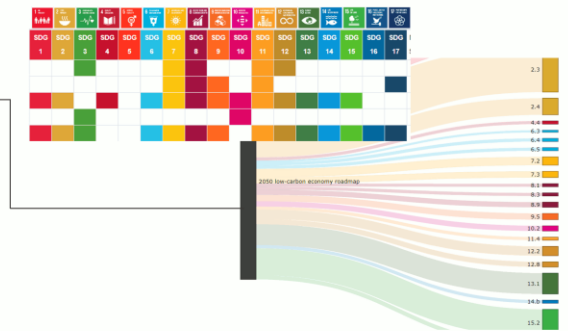
Legal Text



Machine-readable metadata



Measuring



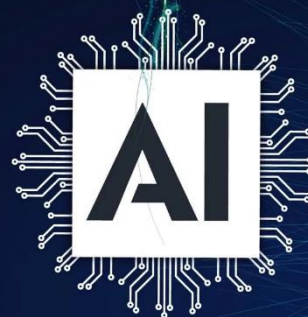
Monitoring

Integration



Kindly thank you
for your attention

*Monica Palmirani -
monica.palmirani@unibo.it*



Premiazione dei vincitori

della Manifestazione
di interesse per la raccolta
di proposte per l'utilizzo
dell'intelligenza artificiale
generativa per la Camera
dei deputati

25 luglio 2024,
ore 11:30
Sala della Regina

Intervengono:

Lorenzo Fontana
Presidente
della Camera dei deputati

SEGUI LA DIRETTA:
WEBTV.CAMERA.IT

Anna Ascani
Vicepresidente
della Camera dei deputati

Per accrediti: sg_ufficiostampa@camera.it

