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AI for Legislative Process

Monica Palmirani, University of Bologna – ALMA-AI

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Lawyer apologizes for fake court citations from ChatGPT

By Ramishah Maruf, CNN
Updated 3:28 PM EDT, Sun May 28, 2023

US judge orders lawyers to sign AI pledge, warning 'they make stuff up'

By Jacqueline Thomsen

May 31, 2023 8:56 PM GMT+2 · Updated 10 hours ago

THE TECHNOLOGY 202

ChatGPT is now writing legislation. Is this the future?

Analysis by Cristiano Lima
with research by Aaron Schaffer

January 23, 2023 at 8:55 a.m. EST

But in what may be a first, a Massachusetts state senator has used a surging new tool to help write a bill aimed at restricting it: ChatGPT, the artificial intelligence chatbot.

Home / News / Technology / Artificial Intelligence / EU Commission issues internal guidelines on ChatGPT, generative AI

EU Commission issues internal guidelines on ChatGPT, generative AI

By Luca Bertuzzi | EURACTIV.com Est. 4min

31 mag 2023

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AI ACT

AT A GLANCE

Plenary – June 2023

European Parliament

Parliament's negotiating position on the artificial intelligence act

AI in Legislative process could be considered High Risk

In case of use of Generative AI we should

"Generative foundation models, like GPT, would have to comply with additional transparency requirements, like **disclosing that the content was generated by AI**, designing the model to prevent it from generating illegal content and publishing summaries of copyrighted data used for training." EU Parliament, June 2023

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Different goals of AI in Legislative Drafting

- Creation of structure of document
- Linguistic Translation
- Creation of executive summary
- Creation of preamble
- Creation of Amendment
- Consolidation
- Definitions
- Smart Legislative Drafting of the references
- Semantic annotation
- Classification
- Clustering
- Analysis of impact
- Analysis of effectiveness
- Policy Checking
- Similarity in comparative law
- Smart Search Engine
- Conversional Query

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Weakness of LLM 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

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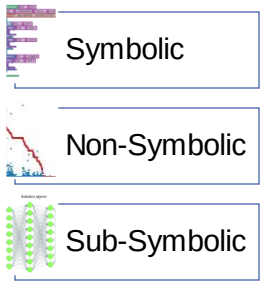
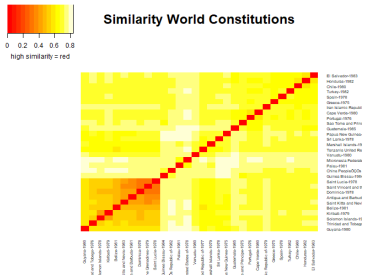
Hybrid AI for the Legal Domain





- AI
- Smart Contract

- Regression
- Data Science

Algorithm-driven

Data-driven

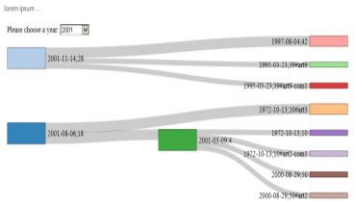
Document-driven

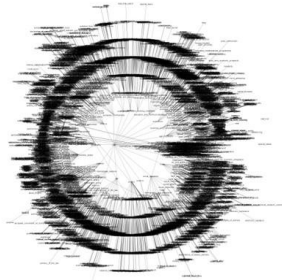
Semantic Web-driven

- LegalXML

- KG
- Legal Ontology

Content, Context, Semantic, Processing





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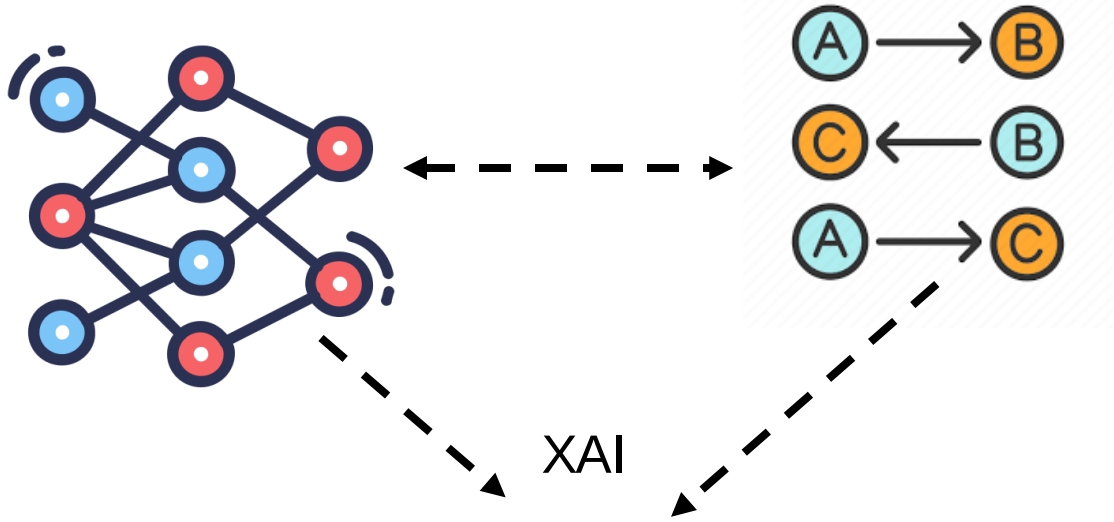
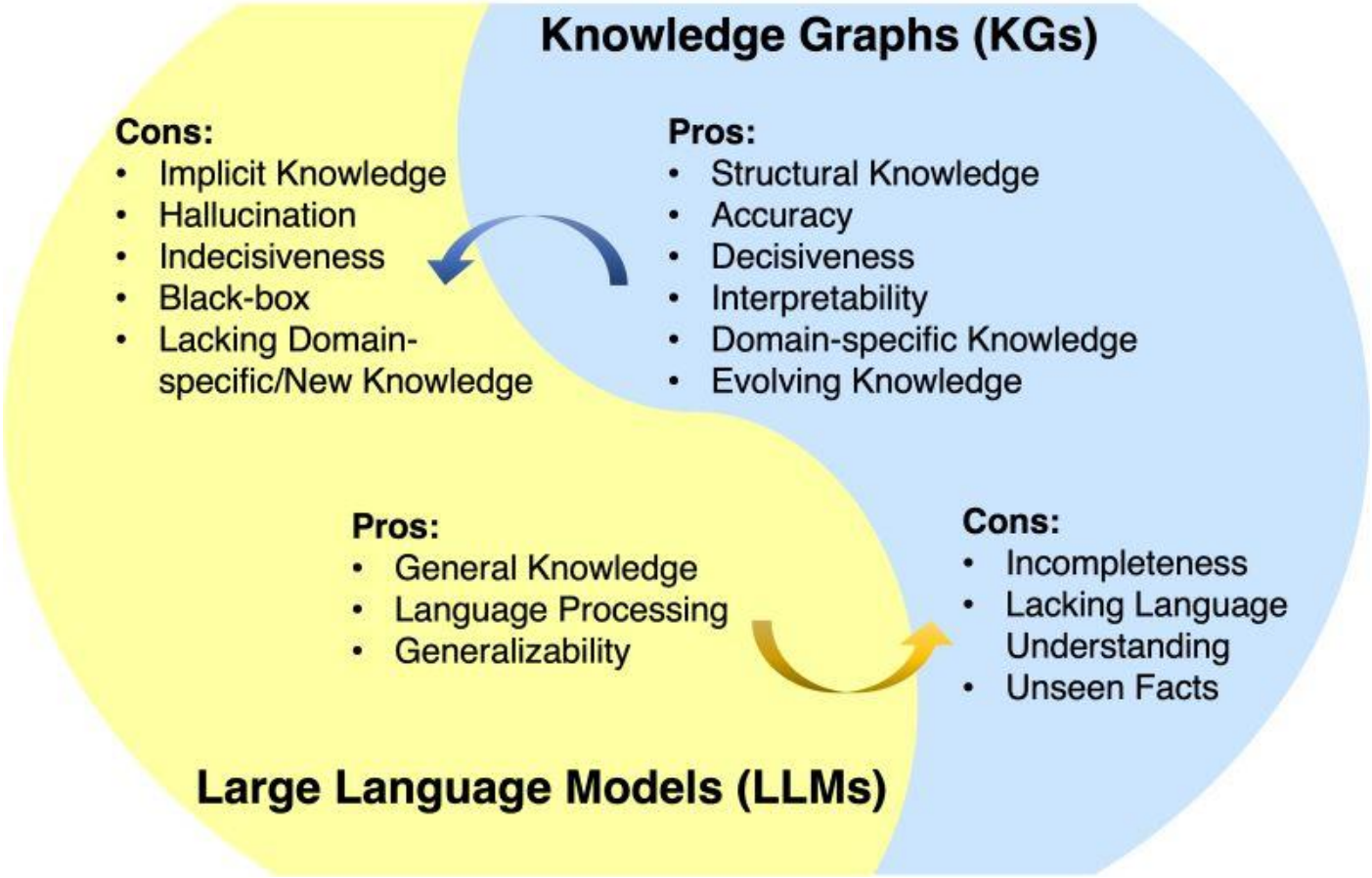
Neuro-symbolic

Sub-Symbolic AI

Symbolic AI





Unifying Large Language Models and Knowledge Graphs: A Roadmap

Shirui Pan, Linhao Luo, Yufei Wang, Chen Chen, Jiapu Wang, Xindong Wu

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Interoperability and semantic For “White box” approach in AI

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b) to publish papers, articles, preprints, slides, presentations, videos, teaching material, programs of events, calls for papers and volumes and collections thereof,

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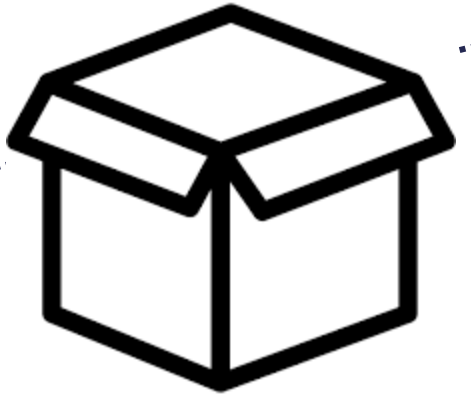
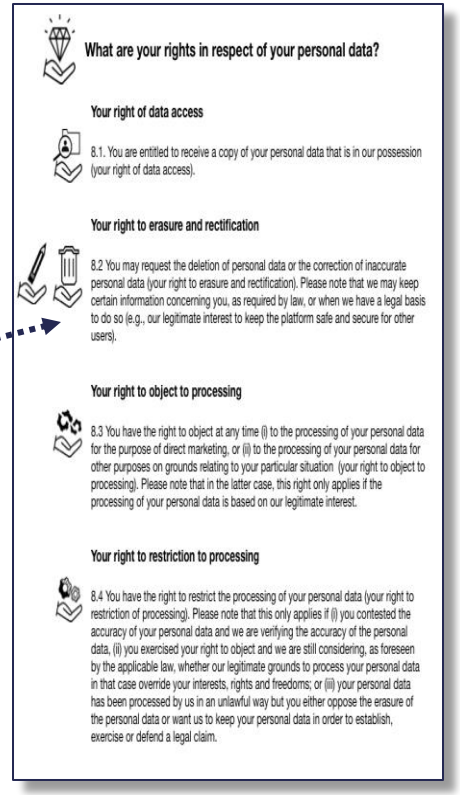
AKOMA NTOSO

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

OASIS LegalXML

LegalRuleML




What are your rights in respect of your personal data?

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.

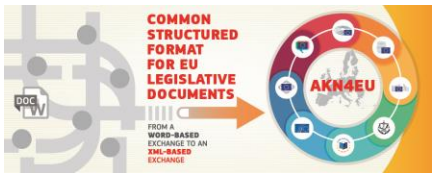
Your right to restriction to processing

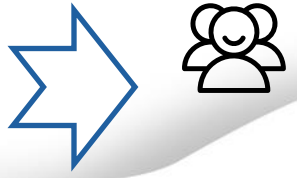
8.4 You have the right to restrict the processing of your personal data (your right to restriction of processing). Please note that this only applies if (i) you contested the accuracy of your personal data and we are verifying the accuracy of the personal data, (ii) you exercised your right to object 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





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Thank you!
monica.Palmirani@unibo.it