



AI nei Parlamenti alla luce dell'AIA

Smart Legal Order in Digital Society – SLOTS

Agenda

Monica Palmirani/Nicola Lupo (co-chair)

- **Carlo Marchetti**, Spunti di riflessione sulle applicazioni dell'AI presso il Senato
- **Claudia Di Andrea e Giovanni Ciccone**, Le esperienze di AI nella Camera dei Deputati
- **Fotis Fitsilis**, Guidelines for AI in Parliament

External statement

- Federico Bonomi, LUISS, ASIMOV AI
- Pier Francesco Bresciani, Università di Bologna

Consorzio

- Monica Palmirani, Università di Bologna
- Marta Simoncini, Nicola Lupo, Università LUISS
- Massimo Durante, Università di Torino
- Matteo Cristani, Università di Verona



UNIVERSITÀ
DEGLI STUDI
DI TORINO

LUISS



Obiettivi

- Utilizzare l'AI e altre tecniche per la «semplificazione legislativa»
- 1. Analizzare il post-riduzionismo/testualismo/normativismo della filosofia del diritto nella *digital era*
- 2. Includere l'ermeneutica giuridica nella *eLegislation*
- 3. Definire la compatibilità costituzionale delle fonti giuridiche computabili e la loro esecutibilità automatica
- 4. Implementare «Better regulation» con le tecniche del Legal Design/HCI

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.

Lawyer apologizes for fake court citations from ChatGPT

By [Ramishah Maruf](#), CNN
Updated 3:28 PM EDT, Sun May 28, 2023

Parla il senatore che si è fatto scrivere un intervento in aula da ChatGPT

La provocazione dell'esponente di Azione-IV Marco Lombardo, che rilancia: "È adesso che bisogna parlarne"



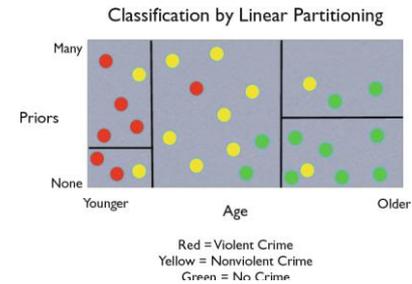
eLegislation

at4am

EUR-Lex



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;  
    }  
}
```



AI and Law

Programmazione logica – symbolic AI

Semantic Web e Knowledge representation

ML, Classificazione, clustering, NLP, predizione

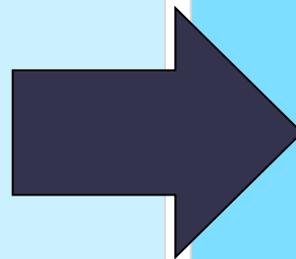
Legal data analytics

Blockchain & Smart Contract

«Rules As Code»

The screenshot shows the top of a website page. At the top, it says "CRACKING THE CODE" in large, bold, black letters, followed by "RULEMAKING FOR HUMANS AND MACHINES" in smaller black letters. Below this are logos for @OPSIGOV, OPSI (Office of Public Sector Innovation), and OECD. A purple navigation bar contains the NSW Government logo and the text "digital.nsw". Below the navigation bar, there are links for "Digital Transformation", "Policy", "Design System", "Get Involved", and "Blog". The main content area has a blue background with the text "Rules as Code – NSW Joins the Worldwide Movement to Make Better Rules" in white.

- Dal codice al testo
- «Legalismo computazionale»
- «diritto artificiale»
- Rischi democratici
- Preoccupazioni etiche



The screenshot shows a journal article page. At the top, there are buttons for "View PDF" and "Download full issue". Below this is the Elsevier logo and the journal title "Computer Law & Security Review" with the volume and issue information "Volume 48, April 2023, 105772". The article title is "Representing legislative Rules as Code: Reducing the problems of 'scaling up'". The authors listed are Andrew Mowbray^a, Philip Chung^b, and Graham Greenleaf^c. There are icons for email, a person, and a document. Below the authors, there is a "Show more" dropdown menu and a "Share" button. At the bottom, there are icons for "Add to Mendeley", "Share", and "Cite".

- Normatività e legittimità nell'ordinamento giuridico
- Interpretazione e teoria giuridica
- Spiegabilità
- Trasparenza



Digital-ready policies



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*



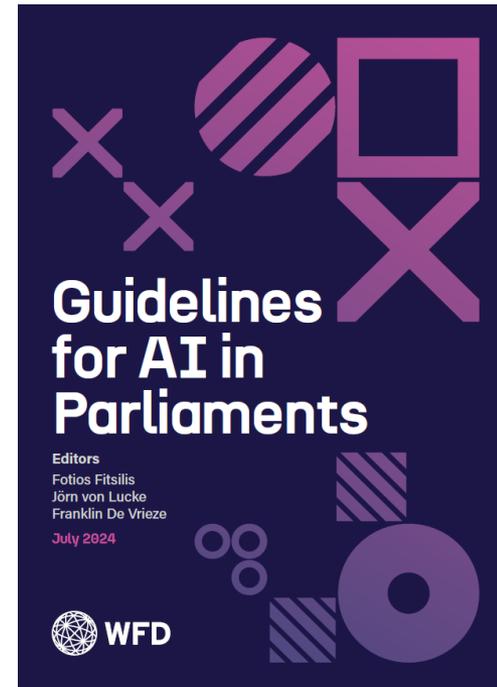
6. *Digital-ready drafting*

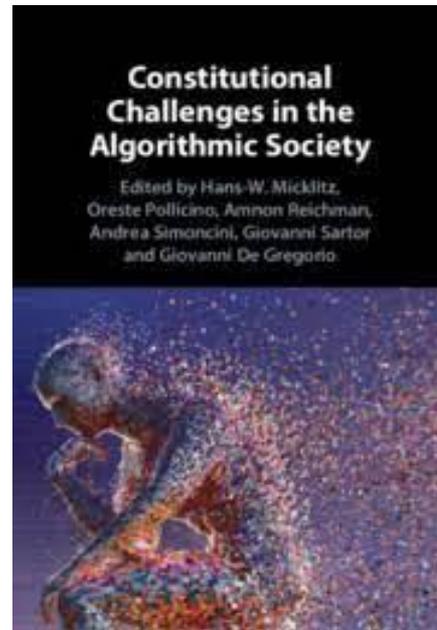
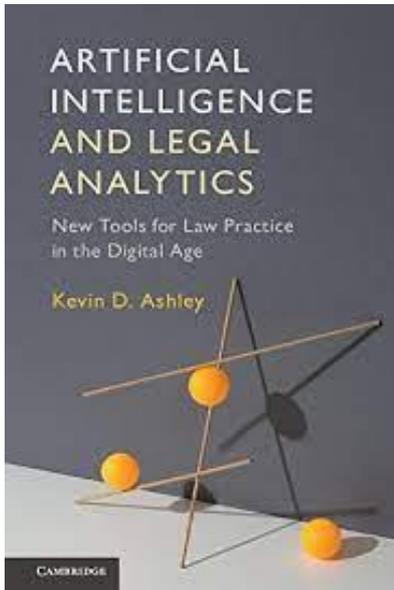


Enabler:
Multidisciplinary teams

Critical issues in legal domain

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

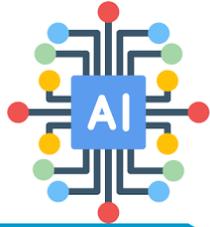




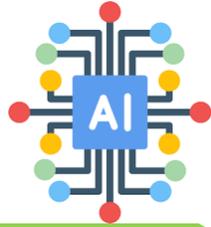
Klaus Günther

From Normative to Smart Orders?

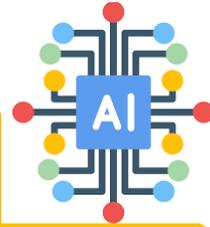
Abstract: The increasing penetration of new digital technologies, especially artificial intelligence, into almost all areas of society's life has led to the emergence of smart orders. These are orders that are designed to minimize or eliminate deviations from their norms through intelligent design and algorithmic operations. The article explains some examples of smart orders and shows that, at least in principle, a distinction can be made between algorithmically optimized, norm addressee-oriented prevention and addressee-substituting pre-emption of deviant behavior by digital technologies. The focus of the article is then on the question of whether and, if so, in what sense smart orders are still normative orders at all. In the course of the analysis, it becomes apparent that while legal orders and other normative orders pursue the goal of effective enforcement of their norms, they do not pursue the ideal of complete non-deviance. It becomes clear that one of the essential aspects of normative orders is that they are addressed to persons who must embrace them as autonomous and, at the



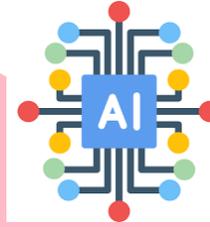
Support
Extract
Retrive
Generate



Monitor
Reason
Measure



Predict
Diagnost



Execute

<https://gitlab.com/CIRSFI/D/genai4lex>



Camera dei Deputati
XIX LEGISLATURA

Comitato di vigilanza
sull'attività di documentazione

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
Anna Ascani
Vicepresidente
della Camera dei deputati

SEGUI LA DIRETTA:
WEBTV.CAMERA.IT

Per accrediti: sg_ufficiostampa@camera.it



University of
Bologna,
BitNomos

INSTRUCT

#1 bill clusters and
thematic searches by
affinity

UNDERSTAND

#2 Summarize the
amandments

LUISS –
ASIMOV AI

 **LUISS**



MEASURE

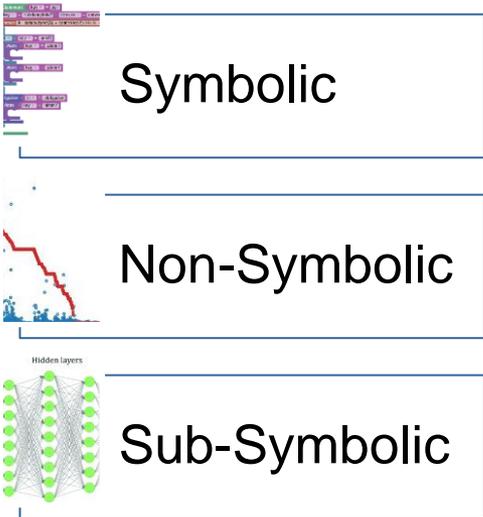
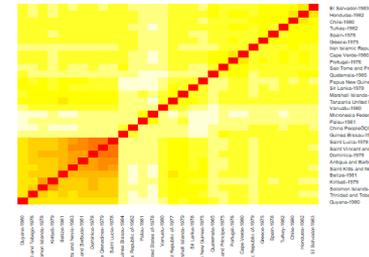
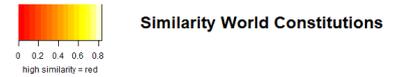
#3 Check
compliance
of the
norms

HOUDINI – UNI.
VERONA



UNIVERSITÀ
di **VERONA**

Hybrid AI for Legal Domain

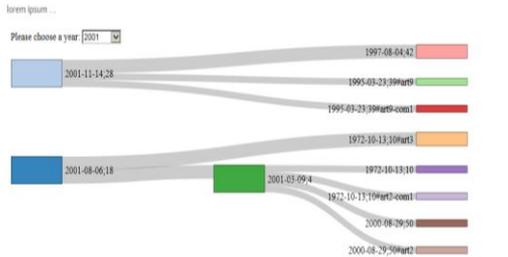
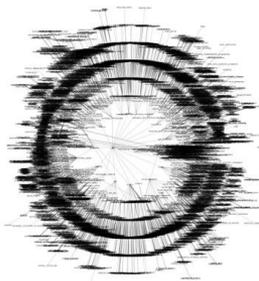
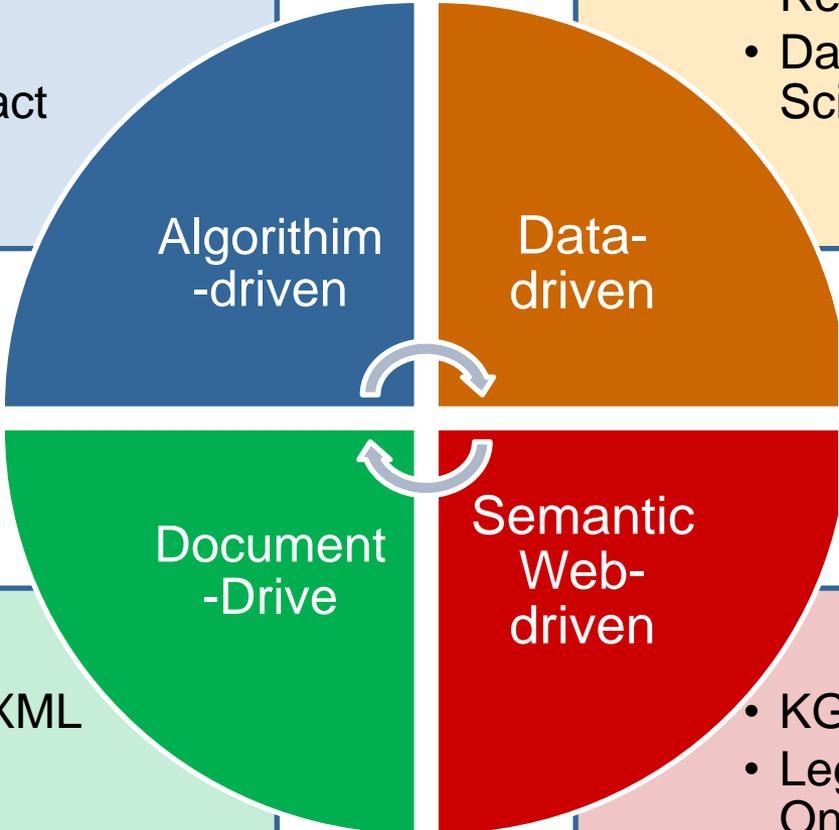


- AI
- Smart Contract

- Regression
- Data Science

- LegalXML

- KG
- Legal Ontology



AKOMA NTOSO

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

AI ACT and Ethics

Human-in-the-loop
Human-on-the-loop
Human-in-Command

Risk-based classification
of AI systems

