

INTENSIVE POSTGRADUATE PROGRAM

AI IN LEGAL PRACTICE AND ITS REGULATION

Curricular unit

AI for Lawyers and Prosecutors

Responsible Academic staff and respective workload in the curricular unit

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Syllabus

Class 1: Digital transformation and legal practice

First part: Digital Transformation

- Legal tech and the Digital Transformation of Law: reflections in the Public and Private Sector
- The Digital Transformation: difference between the Impacts on Substantive/Procedural Law and on the Legal Practice
- The New Generations of LegalTech Products and Services: a better Legal System
- Digital Transformation in the Legal Market: new players and regulatory models

Second part: Applied technologies

- Legal Innovation: Automation and Artificial Intelligence trends in Law
- Automation and Data Science concepts
- Hyperautomation: new market and the integration between Automation and Artificial Intelligence
- Types of Artificial Intelligence
- Structured and Unstructured Data
- Small Data, Big Data, and External Data
- Volumetrics, Jurimetrics, and Risk Management
- Artificial Intelligence Techniques for Legal Tools (Natural language processing, Computational Law, Computer Vision, among others)
- Generative AI

Case studies:

- Examples of tech solutions for Litigation, Document Automation, Data Protection and Compliance;
- PDPJ - Digital Platform of the Judiciary of Brazil: new possibilities for data science and microservices in the Public Sector
- Generative AI Application Cases

Class 2: AI Governance and Ethics in practice

First part: AI Ethics

- Understanding the general and organizational principles of AI Ethics
- Identifying ethical dilemmas in AI applications
- What are biases in the context of artificial intelligence? Can they be positive or negative?
- Mitigating Negative (illegal or abusive) Biases in AI
- Fairness metrics and bias detection algorithms to continuously evaluate the AI models throughout their lifecycle
- AI Ethics Committees

Case studies: AI Ethics and discrimination bias

Second part: AI Governance

- Role of international standards and regulations, focusing on the AI Act
- Responsible AI agenda
- Structuring the AI Governance and Ethics Program
- Types of frameworks and models for AI governance
- Ensuring AI systems comply with existing frameworks and legal obligations
- Transparency, explainability, auditability and accountability

Case studies: Tools and techniques for monitoring and enforcing AI Governance and legal compliance

Teaching methodologies

By means of text readings, seminars, and group discussions, as well as case studies and tutorials; evaluation through presentations and engagement in activities throughout the module.

Main Bibliography

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- Floridi, L. 2023. AI as agency without intelligence: On ChatGPT, large language models, and other generative models. *Philosophy & Technology* (2023) 36:15. pp. 2-7. Available at SSRN: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4358789
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- Russel, S., Perset, K., and Grodelnik, M. 2023. Updates to the OECD's definition of an AI system explained. <https://oecd.ai/en/wonk/ai-system-definition-update>
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- Holloway, Eric. 2022. Access: <https://mindmatters.ai/2022/04/why-gpt-3-cant-understand-anything/>.
- Waler, Joshua. ON LEGAL AI. English Edition. Fastcase, 2019.
- Zavaglia Coelho, A. Klafke, G. F. Maito, D. C. Latini, L. M. D, Maruca, G, Chow, B. G, Feferbaum, M. 2023. Artificial Intelligence Governance in Organizations: Framework for AI Ethics Committees – Version 1.0. CEPI FGV Direito SP, São Paulo. <https://repositorio.fgv.br/server/api/core/bitstreams/b4e50e31-88e8-48d3-be01-58ce2315c8fe/content>