

## 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

João Marques Martins / Ana Marques

### Syllabus

- AI for prosecutors (Friday)
  - Predictive policing
  - Crime investigation
  
- AI for lawyers (Saturday)
  - AI Codes of Conduct
  - AI related legal consultancy
  - AI & Data
  - AI tools for digital twin generation
  - Predictive justice
  - Legal bots
  - Law offices of the future

### Teaching methodologies

Seminars

### Main Bibliography

→ Predictive policing and crime Investigation

- DE HOYOS, Montserrat Sancho – “EL Libro Blanco sobre Inteligencia Artificial de la Comisión Europea: Reflexiones desde las Garantías Esenciales del Proceso Penal como “Sector de Riesgo” in *Revista Española de Derecho Europeo*, 76, 2020, pp. 9-44
- QUATTROCOLO, Serena – *Artificial Intelligence, Computational Modelling and Criminal Proceedings*, Springer, 2020
- SCHNEIDER, Frédéric – “Auswirkungen der Digitalisierung auf das Ermittlungsverfahren Impulse aus der Strafverteidigungspraxis” in *Zeitschrift für Internationale Strafrechtsdogmatik*, 2, 2020, pp. 79-83
- Simmler, Monika / Brunner, Simone / Canova, Giulia / Schedler, Kuno – “Smart criminal justice: exploring the use of algorithms in the Swiss criminal justice system” in *Artificial Intelligence and Law* (<https://doi.org/10.1007/s10506-022-09310-1>)
- TOBIN, Lee / GLADYSHEV, Pavel – “Consistent pathway analysis: a structured analytic method” in *Artificial Intelligence and Law*, 27, 2019, pp. 1-14

→ AI for lawyers

- AA – Guide on the use of Artificial Intelligence – based tools by lawyers and law firms in the EU. Council of Bars and Law Societies of Europe / European Lawyers Foundation, 2022 (<https://ai4lawyers.eu/>);
- Bagherian-Marandi, Navid / Ravanshadnia, Mehdi / Akbarzadeh-T, Mohammad-R. – “Two-layered fuzzy logic-based model for predicting court decisions in construction contract disputes” in *Artificial Intelligence and Law*, 29, 2021, pp.

453-84

- BERNARD, Debra R. / Fahringer, Susan / Menaldo, Nicola – “New Biometrics Lawsuits Signal Potential Legal Risks in AI” in *Robotics, Artificial Intelligence & Law*, 3(4), 2020, pp. 353-6
- BHATTI, Sophia Adams – “Algorithms in the Justice System: Current Practices, Legal and Ethical Challenges” in *The Law of Artificial Intelligence*, Sweet & Maxwell, 2021, pp. 523-55
- CHEN, Daniel L. – “Judicial analytics and the great transformation of American Law” in *Artificial Intelligence and Law*, 27, 2019, pp. 15-42
- CONETTA, Orlando – “AI in the Legal Profession” in *The Law of Artificial Intelligence*, Sweet & Maxwell, 2021, pp. 557-74
- DIMYADI, Johannes / BOOKMAN, Sam / HARVEY, David / AMOR, Robert – “Maintainable process model driven online legal expert systems” in *Artificial Intelligence and Law*, 27, 2019, pp. 93-111
- ELIOT, Lance - *AI And Legal Reasoning Essentials: Practical Advances In Artificial Intelligence And Machine Learning*, LBE Press Publishing, 2020
- ENGSTROM, David Freeman / Jonah B. Gelbach – “Legal Tech, Civil Procedure, and the Future of Adversarialism”, in *University of Pennsylvania Law Review*, v. 169, pp. 1001-1099;
- GROH, Christopher J. – “A Mathematic and Scientific Approach to 21<sup>st</sup> Century In-House Litigation” in *Robotics, Artificial Intelligence & Law*, 1(6), 2018, pp.403-430
- HAMMITT, Jennifer – “AI and Text-Based Analytics in Complex Environmental Litigation: What Environmental Practitioners Need to Know” in *Robotics, Artificial Intelligence & Law*, 2(5), 2019, pp. 309-21
- HIGGINS, Brian Wm. – “Will «Leaky» Machine Learning Usher in a New Wave of Lawsuits?” in *Robotics, Artificial Intelligence & Law*, 2(1), 2019, pp. 9 – 16
- LAURITSEN, Marc - “Toward a Phenomenology of Machine – Assisted Legal Work” in *Robotics, Artificial Intelligence & Law*, 1 (2), 2018, pp. 67-83
- MEDVEDEVA, Masha / WIELING, Martijn / VOLS, Michel – “Rethinking the field of automatic prediction of court decisions” in *Artificial Intelligence and Law*, 2021 (<https://doi.org/10.1007/s10506-021-09306-3>)
- MEYEROWITZ, Glen – “Lawyers, Here’s How to Begin Learning About Artificial Intelligence” in *The Journal of Robotics, Artificial Intelligence & Law*, 1(4), 2018, pp. 261-5
- MITCHELL, Jane / MITCHELL, Simon – “Machine learning for determining accurate outcomes in criminal trials” in *Law, Probability and Risk*, Law, 19, 2020, pp. 43-65
- SANTOS, André Teixeira dos – “Justiça Preditiva: um oráculo anunciado ou uma ferramenta do futuro?” in *Revista Portuguesa de Ciência Criminal*, 31(2), 2021, 299-339
- SURDEN, Harry – “Artificial Intelligence and Law: An Overview” in *Georgia State University Law Review*, 35(4), 2019, pp. 1305-37
- VAN DER HAEGEN, Matthias – “Quantitative Legal Prediction: The Future of Dispute Resolution?” in *Artificial Intelligence and the Law*, ed. Jan de Bruyne / Cedric Vanleenhove, Intersentia, 2021, pp. 73-99