



FACULDADE DE DIREITO
Universidade de Lisboa

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 (1st week)

Syllabus

- AI for litigation lawyers (Friday and Saturday morning)
 - AI generating new causes for litigation
 - Predictive justice
 - E-discovery
 - Legal analytics applied to complex litigation
- AI for criminal investigation (Saturday afternoon)
 - Tools to detect crime
 - Facial recognition
 - Document analysis

Teaching methodologies

Seminars

Main Bibliography

→ AI for litigation lawyers

- 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
- GROH, Christopher J. – “A Mathematic and Scientific Approach to 21st 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



FACULDADE DE DIREITO
Universidade de Lisboa

- 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

→ AI tools for 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