

DISCIPLINA: BIG DATA AND THE LAW	CÓDIGO:
PROFESSOR: DANIEL DE MAGALHÃES CHADA	CARGA HORÁRIA: 30h
<p>EMENTA</p> <p>What does data analysis have to do with the law? Plenty. Today thousands upon thousands of Gigabytes of data is produced daily: informations about where we are, what we like and who we relate to. This data is both produced and used by people and companies towards a number of ends. Most good, some bad. The era of Big Data.</p> <p>This paradigm shift has already deeply impacted our society, the way we think and the way we act, and the law is no exception. The world of data is impacting the practice and the very concept of the law. Upon this phenomenon and its sweeping impact we will dive and explore, throughout this course.</p>	
<p>OBJETIVOS GERAIS</p> <p>(i) understanding the concepts of data, information and knowledge in the digital age—and how they can be used; (ii) locating and accessing relevant available data in the internet, (iii) understanding data cleansing and preparation, and (iv) using data for the production of information and knowledge.</p>	
<p>OBJETIVOS ESPECÍFICOS</p> <p>Part I – Discussions about the use of data by institutions, for policy-making and public use, as well as by private companies, such as Google, Facebook, the NYSE, and brazilian cases, such as the Supremo Court in Numbers project.</p> <p>Part II – Discussion on how to generate, locate, access, understand, clean and use data. And how to create information and knowledge from data.</p> <p>Part III – Group project using a data set for the production of knowledge in class.</p>	
<p>METODOLOGIA</p> <p>Lectures and student presentations</p>	
<p>PROGRAMA</p> <p>a) the concepts of big-data and data science, b) overview of big data, analytics and data science, c) impacts of data science and machine learning on society, the market government, and culture d) open data initiatives and their impact, e) open data in government and transparency, f) the ubiquity of networks and the impact of network science g) network science and the law h) concepts on natural language processing and text analysis for the law</p>	
<p>CRITÉRIOS DE AVALIAÇÃO</p> <p>Class participation, presentation, and a final project</p>	
<p>BIBLIOGRAFIA OBRIGATÓRIA</p> <p>The Tragedy of the Commons -- Garrett Hardin -- Science 13 Dec 1968: Vol. 162, Issue 3859, pp. 1243-1248. Disponível em: http://science.sciencemag.org/content/162/3859/1243.full</p> <p>The building blocks of economic complexity – Hidalgo, Hausmann – PNAS 2009 106 (26) 10570-10575. Disponível em: http://www.pnas.org/content/106/26/10570.full</p> <p>https://www.ibm.com/blogs/watson/2016/01/ross-and-watson-tackle-the-law/</p> <p>http://www.theatlantic.com/sponsored/ibm-transformation-of-business/watson-takes-the-stand/283/</p> <p>https://www.technologyreview.com/s/534576/how-network-science-is-changing-our-understanding-of-law/</p> <p>An Empirical Analysis of Racial Differences in Police Use of Force* Roland G. Fryer, Jr. Disponível em: http://www.nber.org/papers/w22399</p>	

Network Analysis in the Legal Domain: A complex model for European Union legal sources --
Marios Koniaris, Ioannis Anagnostopoulos, Yannis Vassiliou. Disponível em:

<https://arxiv.org/abs/1501.05237>

Scale-free Law: Network Science and Copyright

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BIBLIOGRAFIA COMPLEMENTAR

Here comes Everybody – Clay Shirky 2009