Bibliography

AB2L, 'Radar de Lawtechs e Legaltechs' (ab2l.org.br) <https://ab2l.org.br/radar-law techs/> accessed 10 February 2021;

Abrams I R, 'Statutory Protection of the Algorithm in a Computer Program: A Comparison of the Copyright and patent laws' (1989) 9:2 Computer Law Journal;

Abschlussbericht der Länderarbeitgruppe 'Legal Tech: Herausforderungen für die Justiz'(Schleswig-Holstein, 2019), <https://www.schleswig-holstein.de/DE/Lande sregierung/II/Minister/Justizministerkonferenz/Downloads/190605_beschluesse/ TOPI_11_Abschlussbericht.pdf;jsessionid=403E9295A2AF9CB0FBA9909024CD 2AFA.delivery2-replication?__blob=publicationFile&v=1> accessed 26 February 2021;

Accident Compensation Better Rules Discovery Team 'Exploring Machine Consumable Accident Compensation Legislation. Lessons for a structural rewrite of the AC Act and opportunities to make it machine consumable' (The Service Innovation Lab, 1 July 2019) <https://serviceinnovationlab. github.io/assets/Exploring_Machine_Consumable_Code_With_ACC.pdf> accessed 30 January 2021;

Adamczewski P, `Ku dojrzałości cyfrowej organizacji inteligentnych`, (2018) 161 Studia i Prace. Kolegium Zarządzania i Finansów;

—, `Organizacje inteligentne w zintegrowanym rozwoju gospodarki` (2016) 2 Zeszyty Naukowe Uniwersytet Rzeszowski,

African Regional Intellectual Property Organization, 'ARIPO Model Law on Copyright and Related Rights' (ARIPO, July 2019) <https://www.aripo.org/wp-conte nt/uploads/2019/10/ARIPO-Model-Law-on-Copyright-and-Related-Rights.pdf> accessed 11 December 2020.

Agarib A, 'Dubai Police unveil Artificial Intelligence projects, Smart Tech' (Khaleej Times, 12 March 2018) <https://www.khaleejtimes.com/nation/dubai/dubai-poli ce-unveil-artificial-intelligence-projects-smart-tech> accessed 8 February 2021;

Agnoloni T, Francesconi E and Spinosa P, 'xmLegesEditor: an OpenSource Visual XML Editor for supporting Legal National Standards' in *Proceedings of the V Legislative XML Workshop* (European Press Academic Publishing 2007);

Alchourrón C E and Bulygin E, *Normative Systems* (Springer-Verlag 1971);

Aletras N, Tsarapatsanis D, Preotiuc-Pietro D and Lampos V, 'Predicting judicial decisions of the European Court of Human Rights: a Natural Language Processing perspective' (2016), 2 Perrj Computer Science;

—, Tsarapatsanis D, Preotiuc-Pietro D and Lampos V, 'Predicting judicial decisions of the European Court of Human Rights: a natural language processing perspective' (2016) 2 PeerJ Computer Science;

629

Bibliography

Aleven V, *Teaching Case-Based Argumentation Through A Model and Examples* (University of Pittsburgh 1997) <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.47.3347&rep=rep1&type=pdf> access 10 May 2021;

Alexy R, *A Theory of Constitutional Rights*, transl. J. Rivers (Oxford University Press 2002);

Al-Kofahi K, 'Cognitive Computing: Transforming Knowledge Work, Transforming Knowledge Work' (27 January 2017) <www.blogs.thomsonreuters.com/answerson/cognitive-computing-transforming-knowledge-work/> accessed 15 December 2020;

Allen C, 'The Path to Self-Sovereign Identity' (*Life With Alarcity*, 25 April 2016) <http://www.lifewithalacrity.com/2016/04/the-path-to-self-soverereign-identity.html> accessed 21 February 2021;

Alpaydin E, *Machine Learning. The New AI* (The MIT Press 2016);

Alsop T, 'Legal Tech Market Revenue Worldwide from 2019 to 2025, by Business Type' (Statista, 26 January 2021) <www.statista.com/statistics/1168096/legal-tech-market-revenue-by-business-type-worldwide/> accessed 30 January 2021;

Ambrogi R, 'A Chronology of Legal Technology 1842-1995', <https://www.lawsitesblog.com/2010/02/chronology-of-legal-technology-1842.html> access 17 March 2021;

—, 'At $1.2 Billion, 2019 Is A Record Year for Legal Tech Investments - And It's Only September', (Lawsites 14 February 2010) <https://www.lawsitesblog.com/2019/09/at-1-1-billion-2019-is-a-record-year-for-legal-tech-investments-and-its-only-september.html> access 17 March 2021;

—, 'Judge Penalizes Lawyers For Not Using Artificial Intelligence' <abovethelaw.com/2019/01/judge-penalizes-lawyers-for-not-using-artificial-intelligence/>, accessed: 13 January 2021;

Amendolagine V, 'Percorsi di giurisprudenza - il processo civile telematico a cinque anni dalla sua introduzione' (2020) 1 Giurisprudenza Italiana;

Amrosz M, 'Sztuczna inteligencja z obowiązkowym ubezpieczeniem OC?' (2021) 5 Miesięcznik Ubezpieczeniowy;

Anand S A pioneer in real estate blockchain emerges in Europe, <https://www.wsj.com/ articles/a-pioneer-in-real-estate-blockchain-emerges-in-europe-1520337601> accessed 27 January 2021;

Andoni M, Robu V, Flynn D, Abram S, Geach D, Jenkins D, McCallum P and Peacock A, 'Blockchain technology in the energy sector: A systematic review of challenges and opportunities' (2019) 100 Renewable and Sustainable Energy Reviews;

Andrews v. Blick Art Materials LLC 286 F Supp 3d 365 (NY 2017);

Angwin J, Larson J, Mattu S and Kirchner L, 'Machine Bias', (ProPublica, 23 May 2016) <https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing> accessed 8 February 2021;

Angwin J, Larson J, Mattu S and Kirchner L, 'Machine bias' (Pro Publica, 23 May 2016) <https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing> accessed 11 March 2021;

630

Araszkiewicz M, 'Limits of Constraint Satisfaction Theory of Coherence as a Theory of (Legal) Reasoning' in Michał Araszkiewicz and Jaromír Šavelka (eds) *Coherence. Insights from Philosophy, Jurisprudence and Artificial Intelligence* (Springer 2013);

Araszkiewicz M, 'Towards Systematic Research on Statutory Interpretation in AI and Law' in Kevin D. Ashley (ed) *Legal Knowledge and Information Systems - JURIX 2013: The Twenty-Sixth Annual Conference. Frontiers in Artificial Intelligence and Applications 259* (IOS Press 2013);

Araszkiewicz M, Żurek T, 'Interpreting Agents' in Floris Bex, Serena Villata (eds) *Legal Knowledge and Information Systems - JURIX 2016: The Twenty-Ninth Annual Conference. Frontiers in Artificial Intelligence and Applications 294* (IOS Press 2016);

Araya D, '3 Things You Need To Know About Augmented Intelligence' (Forbes 22 January 2019) <forbes.com/sites/danielaraya/2019/01/22/3-things-you-need-to-know-about-augmented-intelligence/?sh=4cda84bd3fdc>, accessed: 10 January 2021;

Armour J, Parnham R and Sako M, 'Augmented Lawyering' (2020) 558 European Corporate Governance Institute - Law Working Paper;

Artificial Lawyer, 'France's Controversial Judge Data Ban – The Reaction' (Artificial Lawyer, 5 June 2019) <https://www.artificiallawyer.com/2019/06/05/frances-controversial-judge-data-ban-the-reaction/> accessed 31 March 2021;

Ashley K D and Brüninghaus S, 'Automatically Classifying Case Texts and Predicting Outcomes' (2009) 17(2) Artificial Intelligence and Law;

—, 'An AI model of case-based legal argument from a jurisprudential viewpoint' (2002) 10 Artificial Intelligence and Law;

—, *Artificial Intelligence and Legal Analytics. New Tools for Legal Practice in the Digital Age* (Cambridge University Press 2017);

—, Artificial Intelligence and Legal Analytics: New Tools for Law Practice in the Digital Age (Cambridge University Press 2017);

—, *Modeling Legal Argument. Reasoning with Cases and Hypotheticals* (MIT Press 1990);

Atienza M and Ruiz-Manero J, *A Theory of Legal Sentences* (Springer 1998);

Atkinson K and Bench-Capon T, *Argumentation Schemes in AI and Law* (in press 2021);

—, Bench-Capon T and Bollegala D, 'Explanation in AI and law: Past, present and future' (2020) 289: 103387 Artificial Intelligence.

—, Bench-Capon T, 'Reasoning with Legal Cases: Analogy or Rule Application?' in Floris Bex (ed) *Proceedings of the Seventeenth International Conference on Artificial Intelligence and Law*, *ICAIL 2019* (ACM 2019);

—, Bench-Capon T, Bex F, Gordon T F, Prakken H, Sartor G, Verheij B, 'In memoriam Douglas N. Walton: the influence of Doug Walton on AI and law' (2020) 28(3) Artificial Intelligence and Law;

631

Bibliography

Bacon J, Michels J D, Millard C and Singh J, 'Blockchain Demystified' (2017) 268/2017 Queen Mary School of Law Legal Studies Research Paper <https://ssrn.com/abstract=3091218> accessed 6 February 2021;

Banasikowska J, Sołtysik-Piorunkiewicz A, `Czynniki kształtujące poziom akceptacji i poziom dojrzałości systemów e-administracji na tle rozwoju społeczeństwa informacyjnego` (2016) 308 Studia Ekonomiczne. Zeszyty Naukowe Uniwersytetu Ekonomicznego w Katowicach,

Bandara E, Keong Ng W, Ranasinghe N, De Zoysa K, 'Aplos: Smart contract Made Smart' in Zibin Zheng, Hong-Ning Da, Mingdong Tang, Xiangping Chen (eds), Blockchain and Trustworthy System (Springer 2020);

Bar G, 'Przejrzystość, w tym wyjaśnialność, jako wymóg prawny dla systemów Sztucznej Inteligencji' (2020) 20 Prawo Nowych Technologii;

—, 'Robot personhood, czyli po co nam antropocentryczna Sztuczna Inteligencja' in Luigi Lai and Marek Świerczyński (eds.), *Prawo Sztucznej Inteligencji* (C. H. Beck 2020);

Baran P, 'On Distributed Communications: I. Introduction to Distributed Communications Networks' (1964) RAND Corporation <https://www.rand.org/pubs/research_memoranda/RM3420.html> accessed 1 December 2020;

Baroni P, Gabbay D, Parent X, van der Torre L (eds) *Handbook of Formal Argumentation* (College Publications 2018);

Barotanyi B, 'E-Recht: Law Making in a Contemporary Way' (2007) 1 Masaryk University Journal of Law and Technology;

Barraclough T, Fraser H and Barnes C, 'Legislation as a code for New Zeland: opportunities, risks, and recomendations' (2021) 3 NZLFRRp 12-13;

Barredo Arrieta A, Díaz-Rodríguez N, Del Ser J, Bennetot A, Tabik S, Barbado A, Garcia S, Gil-Lopez S, Molina D, Benjamins R, Chatila R and Herrera F, 'Explainable Artificial Intelligence (XAI): Concepts, taxonomies, opportunities and challenges toward responsible AI' (2020) 58 Information Fusion;

Barta P, Kawecki M in Paweł Litwiński (ed), Rozporządzenie UE w sprawie ochrony osób fizycznych w związku z przetwarzaniem danych osobowych i swobodnym przepływem takich danych. Komentarz, Warszawa (C. H. Beck 2018);

Baum S, "A Survey of Artificial General Intelligence Projects for Ethics, Risk, and Policy" (Global Catastrophic Risk Institute Working Paper 17 January 2017) 29 <https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3070741> accessed 4 August 2021;

Beck K, *Test Driven Development: By Example* (1 ed., Addison-Wesley Professional 2002);

Beconcini P, 'More "NetCourts" Opening in China' (Squire Patton Boggs, 14 November 2018) <https://www.iptechblog.com/2018/11/more-netcourts-opening-in-china/> accessed 21 August 2021;

Belew R K, 'A connectionist approach to conceptual information retrieval' (Proceedings of the First International Conference on Artificial Intelligence and Law, ICAIL '87, Boston, 27-29 May 1987);

632

Bellinger G and Castro D, Mills A, 'Data, Information, Knowledge and Wisdom` (2004) <http://www.Systems-thinking.org/dikw/dikw.htm> accessed 11 January 2021;

Bench-Capon T and others, 'A History of AI and Law in 50 Papers: 25 Years of the International Conference on AI and Law' (2012) 20 Artificial Intelligence and Law;

— and Coenen F P, 'Isomorphism and legal knowledge based systems.' (1992) 1 Artificial Intelligence and Law;

— 'Before and after Dung: Argumentation in AI and Law', 11(1-2) Argument and Computation;

— 'HYPO'S legacy: introduction to the virtual special issue' (2017), 25(2) Artificial Intelligence and Law;

— Sartor G, 'A model of legal reasoning with cases incorporating theories and values', 150(102) Artificial Intelligence;

Berek M, 'Rządowa procedura prawodawcza i jej znaczenie dla jakości stanowionego prawa.' in Federczyk W. and Peszkowski S. (eds.), Doskonalenie i standaryzacja procesu legislacyjnego – dobre praktyki opracowane w ramach projektu LEGIS (Krajowa Szkoła Administracji Publicznej im. Prezydenta Rzeczpospolitej Polskiej Lecha Kaczyńskiego 2019);

Berger-Walliser G, Barton T D and Haapio H, 'From Visualization to Legal Design: A Collaborative and Creative Process' (2017) 54:2 American Business Law Journal;

Berman D H and Hafner C D, 'Representing Teleological Structure in Case-based Legal Reasoning: The Missing Link' in Anja Oskamp and Kevin Ashley (eds), *Proceedings of the Fourth International Conference on Artificial intelligence and Law*, *ICAIL '93* (ACM 1993);

Bex F, *Arguments*, *Stories and Criminal Evidence. A Formal Hybrid Theory*, (Springer 2011);

Biallaß I D in Stephan Oryand Stephan Weth (eds) *Elektronischer Rechtsverkehr* (1st edition, juris Allianz, 2020);

Bieluk M, 'Cywilnoprawna odpowiedzialność profesjonalnego pełnomocnika za błąd' (Uniwersytet w Białymstoku 2019)

Bigelow R P, 'The Use of Computers in the Law', (1973) 24, 4 Hastings Law Journal <https://repository.uchastings.edu/hastings_law_journal/vol24/iss4/4> access: 17 March 2021;

BIK, 'Cybersecurity of Poles 2020' (Biuro prasowe Grupy BIK, 26 January 2021) <https://media.bik.pl/informacje-prasowe/637189/dobre-praktyki-ochrony-danych-osobowych> accessed 31 March 2021;

Bing J, 'Performance of Legal Text Retrieval Systems: The Curse of Boole' (1987) 79 Law. Libr. J.;

—, 'Let there be LITE: a brief history of legal information retrieval' (2010), 1 European Journal of Law and Technology;

Black H C, 'Token', The Black's Law Dictionary (Rev 4th edn, West Publishing Co. 1968);

Bibliography

Black N, 'The Latest on Legal Document Management Software' (ABA Journal, 27 April 2020) <www.abajournal.com/web/article/the-latest-on-legal-document-ma nagement-software> accessed 29 May 2020;

Błaszczak A, 'Cyberprzestępczość: 2021 będzie rokiem wymuszeń w Internecie' <www.rp.pl/Biznes/201209783-Cyberprzestepczosc-2021-bedzie-rokiem-wymusz en-w-Internecie.html> accessed 25 April 2021;

Bodo B, Gervais D and Quintais J P, 'Blockchain and Smart Contracts: the Missing Link in Copyright Licensing?' (2018) 26 International Journal of Law and Infor mation Technology <https://academic.oup.com/ijlit/article/26/4/311/5106727> accessed 7 February 2021;

Boicu M, Tecuci G, Stanescu B, Balan G and Popovici E, 'Ontologies and the Knowledge Acquisition Bottleneck', <https://www.researchgate.net/publication/ 228549124_Ontologies_and_the_knowledge_acquisition_bottleneck/link/549d bfd20cf2fedbc31198ec/download> accessed 25 April 2021;

Bongiovanni G, Postema G, Rotolo A, Sartor G, Valentini C and Walton D (eds.), Handbook of Legal Reasoning and Argumentation (Springer 2018);

Boris M, 'Top Trends in Contract Management 2020' (Contractbook, 31 August 2020) <www.contractbook.com/legaltechinstitute/top-trends-in-contract-manage ment-2020> accessed 3 September 2020.

Borstrom N, *Superinteligencja. Scenariusze, strategie, zagrożenia* (Helion, Gliwice 2016);

Bosilkovsky I, 'Stanford Grad Who Created The World's First 'Robot Lawyer'' Raises $ 12 Million In Series A' (Forbes 23 June2020), <www.forbes.com/sites/ig orbosilkovski/2020/06/23/stanford-grad-who-created-the-worlds-first-robot-lawye r-raises-12-million-in-series-a/?sh=1f6b03d03309> accessed 7 January2021;

Bostick K L, 'Pie in the Sky: Cloud Computing brings an End to the Professiona lism Paradigm in the Practice of Law', (2012) 60, 5 Buffalo Law Review;

Bower J L and Christiensen C M, 'Disruptive Technologies: Catching the Wave' (January-February 1995) Harvard Business Review <https://hbr.org/1995/01/disr uptive-technologies-catching-the-wave> accessed 2 February 2021;

Branting K and others 'Semi-Supervised Methods for Explainable Legal Prediction' (Proceedings of the Seventeenth International Conference on Artificial Intelli gence and Law (ICAIL '19), Montreal, 17 – 21 June 2019);

—, 'Building explanations from rules and structured cases' (1991) 34(6) Internatio nal Journal of Man–Machine Studies;

—, Pfeifer C, Brown B, Ferro L, Aberdeen J, Weiss B, Pfaff M and Liao B, 'Scalable and explainable legal prediction' (2020) Artificial Intelligence and Law <https:// doi.org/10.1007/s10506-020-09273-1> accessed 10 May 2021;

Bratus S, Lembree A and Shubina A, 'Software on the witness stand: what should it take for us to trust it?' in Alessandro Acquisti, Sean W Smith, Ahmad-Reza Sadeghi (eds), *Trust and Trustworthy Computing, Third International Conference, TRUST 2010, Berlin, Germany, June 21-23, 2010, Proceedings* (Springer 2010);

Brauer J, *Programming Smalltalk – Object-Orientation from the Beginning* (Springer 2015);

634

Braun S, `Remote Interpreting` in *Holly Mikkelson* and *Renèe. Jourdenais* (eds) *Routledge Handbook of Interpreting* (Routledge 2015) 352.

Brazier F MT and others, 'Agents and Service-Oriented Computing for Autonomic Computing: A Research Agenda' (2009) 13(3) IEEE Internet Computing;

Brennan T, Dieterich W and Ehret B, 'Evaluating the predictive validity of the Compas risk and needs assessment system' (2009) 1 Criminal Justice and Behavior;

Breuker J, Casanovas P, Klein M C.A, Francesconi E 'The Flood, the Channels and the Dykes: Managing Legal Information in a Globalized and Digital World' in Joost Breuker, Pompeu Casanovas, Michel C.A. Klein, Enrico Francesconi (eds), *Law, Ontologies and the Semantic Web. Channeling the Legal Information Flood* (Amsterdam 2009);

Browne O and Pizzey H, 'Pyrrho Investments Ltd v MWB Property Ltd: A Landmark Decision on Predictive Coding in e-Discovery' (Latham.London, 15 July 2016) <https://www.latham.london/2016/07/pyrrho-investments-ltd-v-mwb-property-ltd-a-landmark-decision-on-predictive-coding-in-e-discovery/> accessed 26 February 2021;

Brożek B, *Rationality and Discourse. Towards a Normative Model of Applying Law* (Wolters Kluwer 2007);

Buchanan B and Headrick T, ′Some Speculation About Artificial Intelligence and Legal Reasoning′ (1970) 23, 1 Stan. L.aw Rev;

—, Shortliffe E H, *Rule-based Expert Systems. The MYCIN Experiments of the Stanford Heuristic Programming Project* (Reading 1984);

Bues M M and Matthaei E, 'LegalTech on the Rise: technology Changes Legal Work Behaviors, But Does Not Replace Its Profession' in Kai Jacob, Dierk Schnidler and Roger Strathausen (eds), *Liquid Legal* (Springer International Publishing 2017);

—, 'What AI in Law Can and Can't Do' (European Legal Tech Association) <www.europe-legaltech.org/what-ai-in-law-can-and-cant-do/> accessed 2 February 2021;

Burrell J, 'How the Machine 'Thinks': Understanding Opacity in Machine Learning Algorithms‘ (2016) 3(1) Big Data & Society;

Buss S R, Kechris A S, Pillay A and Shore R A, 'The Prospects for Mathematical Logic in the Twenty-first Century' (2001) 7 Bulletin of Symbolic Logic;

Butterworth M L, 'The ICO and artificial intelligence: The role of fairness in the GDPR framework' (2018) 2 Computer Law Security Review;

Bygrave L and Tosoni L, 'Commentary on Article 4' in Christopher Kuner, Lee A. Bygrave, Christopher Docksey (eds) The EU General Data Protection Regulation (GDPR). A Commentary (OUP 2020);

Cahuc P, Malherbet F and Prat J, 'The detrimental effect of job protection on employment: Evidence from France' (2019) Iza Institute of Labor Economics;

Calegari R and Sartor G, 'A Model for the Burden of Persuasion in Argumentation' in Serena Villata, Jakub Harašta and Petr Kremen (eds) *Legal Knowledge and Information Systems - JURIX 2020: The Thirty-third Annual Conference, Frontiers in Artificial Intelligence and Applications* 334 (IOS Press 2020);

Callister P, 'Law, Artificial Intelligence, and Natural Language Processing: A Funny Thing Happened on the Way to My Search Results' (2020) 112 Law Library Journal 161-212 <www.papers.ssrn.com/sol3/papers.cfm?abstract_id=3712306> accessed 24 February 2021;

Cambridge Dictionary, 'Token' <https://dictionary.cambridge.org/dictionary/english/token> accessed 2 February 2021;

Campos J, 'La justicia penal en tiempos del Covid-19. Los retos de las videoconferencias'(2020) VI, 6 Paréntesis legal;

Canivet G, '«Preuve et Blockchain», présentation de la table ronde', (2019) 2 Dalloz IP/IT 2019;

Carabantes M, 'Black-box artificial intelligence: an epistemological and critical analysis' (2019) 35 AI & Society;

Cardenas J, 'La nueva Ley de Amparo", Cuestiones Constitucionales'(2013) 29 Cuestiones Constitucionales. Revista Mexicana de Derecho Constitucional;

Carneiro D, Novais P, Andrade F, Zeleznikow J and Neves J, 'ODR: an Artificial Intelligence Perspective' (2014) 41 Artificial Intelligence Review;

Carnelutti F, *La prova civile. Parte generale. Il concetto giuridico della prova* (Giuffrè, 1992) 9.

Carnevali D, 'Great Success that Was on the Brink of Failure: The Case of a Techno-Legal Assemblage in the "Civil Trial On-Line" System in Italy' (2019) 8(2) EQPAM;

Casanovas P, Palmirani M, Peroni S, van Engers T and Vitali F, 'Special Issue on the Semantic Web for the Legal Domain Guest Editors' Editorial: The Next Step' (2016) Semantic Web Journal <http://www.semantic-web-journal.net/content/special-issue-semantic-web-legal-domain-guest-editors%E2%80%99-editorial-next-step> access: 16 August 2021;

Case 128/11 UsedSoft GmbH v Oracle International Corp [2012] ECLI:EU:C:2012:407;

Case 393/09 Bezpečnostní softwarová asociace - Svaz softwarové ochrany v Ministerstvu kultury [2010] ECLI:EU:C:2010:816;

Case C-311/18 Data Protection Commissioner v. Facebook Ireland Limited and Maximillian Schrems [2020] EU:C:2020:559;

Case N, 'How To Become A Centaur' (2018) Journal of Design and Science MIT Media Lab <jods.mitpress.mit.edu/pub/issue3-case/release/6>, accessed: 14 January 2021;

Casellas N, *Legal Ontology Engineering. Methodologies, Modelling Trends, and the Ontology of Professional Judicial Knowledge* (Springer 2011);

Castellani M, Pomi P, Triberti C and Turato A (eds), *Blockchain: Guida pratica tecnico giuridica all'uso* (Goware 2019);

CCBE, 'Komunikacja elektroniczna i Internet –przewodnik CCBE' (2013)142 Radca Prawny Dodatek Naukowy;

CCBE, 'CCBE GUIDANCE On Improving The IT Security Of Lawyers Against Unlawful Surveillance' (*ccbe.eu*, 2016) <https://www.ccbe.eu/fileadmin/speciality_distribution/public/documents/IT_LAW/ITL_Guides_recommendations/EN_ITL_20160520_CCBE_Guidance_on_Improving_the_IT_Security_of_Lawyers_Against_Unlawful_Surveillance.pdf> accessed 17 August 2021;

CCBE, Considerations on the legal aspects of artificial intelligence (2020) <https://www.ccbe.eu/fileadmin/speciality_distribution/public/documents/IT_LAW/ITL_Guides_recommendations/EN_ITL_20200220_CCBE-considerations-on-the-Legal-Aspects-of-AI.pdf> accessed 12 January 2021;

CEF Digital, 'eID' <https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/eID> accessed: 21 February 2021;

Cellan-Jones R, ʹDubai Police Unveil Robot Officerʹ (BBC, 24 May 2017) <https://www.bbc.com/news/technology-40026940> accessed 8 February 2021;

Center Information Policy Leadership 'Artificial Intelligence and Data Protection: Delivering Sustainable AI Accountability in Practice. First. Report: Artificial Intelligence and Data Protection in Tension' (2018) <https://www.informationpolicycentre.com/uploads/5/7/1/0/57104281/cipl_ai_first_report_-_artificial_intelligence_and_data_protection_in_te....pdf> accessed 8 April 2021;

CEPEJ '*Length of court proceedings in the member states of the Council of Europe based on the case-law of the European Court of Human Rights*' (CEPEJ,2018);

CEPEJ, 'Possible introduction of a mechanism for certifying artificial intelligence tools and services in the sphere of justice and the judiciary: Feasibility Study' (15Rev, CEPEJ, 8 December 2020);

Chan J BL, ʹTechnological Game: How Information Technology is Transforming Police Practiceʹ (2001) 1 Criminal Justice: The International Journal of Policy and Practice;

Chan V and Koo A M, 'Blockchain Evidence in Internet Courts in China: The Fast Track for Evidence Collection for Online Disputes' (Lexology, 15 July 2020) <https://www.lexology.com/library/detail.aspx?g=1631e87b-155a-40b4-a6aa-5260a2e4b9bb> accessed 9 February 2021;

Charter of Fundamental Rights of the European Union [2012] OJ C326/391;

Chaudhuri A, Mandaviya K, Badelia P and Ghosh S K, ʹOptical Character Recognition Systemsʹ in Arindam Chaudhuri, Krupa Mandaviya, Pratixa Badelia and Soumya K Ghosh (eds) ʹ*Optical Character Recognition Systems for Different Languages with Soft Computing*ʹ, *Studies in Fuzziness and Soft Computing Vol. 352* (Springer 2017);

Check Point Data, 'Raport Cyberbezpieczeństwa' (2020);

Chłopecki A, *Sztuczna inteligencja - szkice prawnicze i futurologiczne* (2nd edn, C. H. Beck 2021);

—, *Sztuczna inteligencja: szkice prawnicze i futurologiczne* (C. H. Beck 2018);

637

Chmieliński M, 'Możliwości wspomagania wybranych ekspertyz i opinii specjalistycznych w obszarze bezpieczeństwa przy wykorzystaniu różnych programów komputerowych' (2017) 8 2(28) Problemy mechatroniki. Uzbrojenie, lotnictwo, inżynieria bezpieczeństwa;

Chozick R, 'The Major Differences Between Digital Forensics and E-discovery' (Flashback Data, 30 June 2017) <www.flashbackdata.com/digital-forensics-vs-ediscovery/> accessed 20 January 2021;

Christensen C, *The Innovator's Dilemma: When New Technologies Cause Great Firms to Fail. Boston* (MA: Harvard Business School Press, 1997);

Christian G, 'Predictive Coding: Adopting and Adapting Artificial Intelligence (AI) In Civil Litigation' (2019) 97 The Canadian Bar Review;

CIO, 'Defining your data strategy for a multi-cloud world' <https://www.cio.com/playlist/the-cloud-control-room/collection/cloud-operations-and-management/article/defining-your-data-strategy-for-a-multi-cloud-world> accessed 18 December 2020;

Clegg S, `Globalizing the Intelligent Organization: Learning Organizations, Smart Workers, (Not So) Clever Countries and the Sociological Imagination, Management Learning` (1999) Sage journals <https://journals.sagepub.com/doi/abs/10.1177/1350507699303001> accessed 11 January 2021;

CNIL, 'Blockchain: Solutions for a responsible use of the blockchain in the context of personal data' <https://www.cnil.fr/sites/default/files/atoms/files/blockchain_en.pdf> accessed 11 December 2020;

Coelho F and Younes G, 'The GDPR-Blockchain paradox: a work around' (W-GCS'18 2018: 1st workshop on GDPR compliant systems, co-located with 19th ACM international middleware conference, Rennes, 2018);

Cohen M A, 'The Rise of Legal Tech Incubators and Why Allen & Overy's 'Fuse' Has the Right Stuff' (Forbes 12 February 2018) <https://www.forbes.com/sites/markcohen1/2018/02/12/the-rise-of-legal-tech-incubators-and-why-allen-overys-fuse-has-the-right-stuff/#10482014494d> access 17 March 2021;

Cole F K, 'In What Format Should I Make My Production? And, Does Format Matter?' (JD Supra, 3 June 2019) <https://www.jdsupra.com/legalnews/in-what-format-should-i-make-my-61643/> accessed 24 February 2021;

Cole K, 'Judges Make the Case for TAR' (Farrell Fritz, 17 February 2021) <www.allaboutediscovery.com/2021/02/judges-make-the-case-for-tar/> accessed 24 February 2021;

Collins A M and Quillian R M, 'Retrieval Time from Semantic Memory' (1969) 8(2) Journal of Verbal Learning & Verbal Behavior;

Collins P, 'What Is a Blockchain Oracle?' (Medium, 2 September 2020) <https://medium.com/better-programming/what-is-a-blockchain-oracle-f5ccab8dbd72> accessed 10 February 2021;

Collomb A, De Filippi P, Sok K, 'Blockchain Technology and Financial Regulation: A Risk-Based Approach to the Regulation of ICOs' (2019) 10 European Journal of Risk Regulation <doi:10.1017/err.2019.41> accessed 9 March 2021;

Competition & Markets Authority (UK), 'Algorithms: How they can reduce competition and harm consumers' (Crown, 2021) <https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/954331/Algorithms_++.pdf> accessed 19 January 2021;

Conrad J G, 'E-Discovery revisited: The need for artificial intelligence beyond information retrieval'(2010) 4 Artificial Intelligence and Law;

Conselho Nacional de Justiça, 'Justiça Em Números 2020' (Conselho Nacional de Justiça 2020) 93 <https://www.cnj.jus.br/wp-content/uploads/2020/08/WEB-V3-Justiça-em-Números-2020-atualizado-em-25-08-2020.pdf> accessed 9 February 2021;

Conselho Nacional de Justiça, 'Inteligência Artificial No Poder Judiciário Brasileiro' (Conselho Nacional de Justiça 2019) 37 <https://www.cnj.jus.br/wp-content/uploads/2020/05/Inteligencia_artificial_no_poder_judiciario_brasileiro_2019-11-22.pdf> accessed 7 February 2021;

Consolo C, Spiegazioni di diritto processuale civile (2nd ed., Giappichelli, Torino, 2014);

Consumer Protection Federal Agency, Procuraduria Federal del Consumidor, 'Informe Anual de la Procuraduría Federal del Consumidor 2019' (PROFECO, 2019);

Contissa G, Godano F and Sartor G, 'Computation, Cybernetics and the Law at the Origins of Legal Informatics' [in:] Simona Chiodo and Viola Schiaffonati (eds), *Italian Philosophy of Technology: Socio-Cultural, Legal, Scientific and Aesthetic Perspectives on Technology* (Vol. 35, Springer 2021);

Cooper S, Cyber Insurance, [w:] Peter Rogan (ed), The Insurance and Reinsurance Law Review, USA (Law Business Research Ltd 2020) <https://thelawreviews.co.uk/title/the-insurance-and-reinsurance-law-review/editors-preface> accessed 25 April 2021;

Coormen T H, *Algorithms Unlocked* (MIT Press 2013);

Corea F, 'Distributed Artificial Intelligence. A primer on Multi-Agent Systems, Agent-Based Modeling, and Swarm Intelligence' (Medium March 2019) <https://francesco-ai.medium.com/distributed-artificial-intelligence-3e3491e0771c>, accessed on 14 January 2020;

Corr J, `An introduction to the digital maturity model` (2020) <https://www.seerinteractive.com/blog/introduction-to-digital-maturity/> accessed 11 January 2021;

Corrales M, Jurčcys M and Kousiouris G, 'Smart Contracts and Smart Disclosure: Coding a GDPR Compliance Framework' in Marcelo Corrales, Mark Fenwick and Helena Haapio (eds), *Legal Tech, Smart Contracts and Blockchain* (Springer 2019);

— Fenwick M and Haapio H, 'Digital Technologies, Legal Design and the Future of the Legal Profession' in MarceloCorrales, Mark Fenwick and Helena Haapio (eds) *Legal Tech, Smart Contracts and Blockchain* (Springer, 2019);

— Fenwick M, Haapio H (eds), *Legal Tech, Smart Contracts and Blockchain* (Springer 2019);

— Jurčys P, Kousiouris G, 'Smart Contracts and Smart Disclosure: Coding a GDPR Compliance Framework' (2018) SSRN Electronic Journal <www.researchgate.net/publication/323625892_Smart_Contracts_and_Smart_Disclosure_Coding_a_GDPR_Compliance_Framework> accessed 30 November 2020;

Council of Bars and Law Societies of Europe, 'CCBE Guidelines on the Use of cloud Computing Services by Lawyers', (CCBE, 7 September .9.2012) r., <http://www.ccbe.eu/fileadmin/speciality_distribution/public/documents/IT_LAW/ITL_Position_papers/EN_ITL_20120907_CCBE_guidelines_on_the_use_of_cloud_computing_services_by_lawyers.pdf.> accessed 21 January 2018;

Council of Europe European Commission for the efficiency of justice ('CEPEJ'), *European judicial systems – Efficiency and quality of justice* (CEPEJ, 2016);

Crowd Research Partners and Cybersecurity Insiders, 'Insider Threat Report 2018' (Crowd Research Partners, 2018) <https://www.veriato.com/resources/whitepapers/insider-threat-report-2018> accessed 17 August 2021;

Cui Y, *Artificial Intelligence and Judicial Modernization* (Springer, 2020);

Custers B and Vergouw B, 'Promising policing technologies: Experiences, obstacles and police needs regarding law enforcement technologies' (2015) 31 Computer Law & Security Review;

Cyrul W, 'Tekst jednolity aktu normatywnego w formacie elektronicznym. W kierunku automatyzacji procesu ujednolicania tekstów prawnych' in Marzena Laskowska (ed) 'Znaczenie wyroków Trybunału Konstytucyjnego dla tekstu jednolitego ustawy' (Wydawnictwo Sejmowe 2017);

— and Pełech–Pilichowski T, 'Legislating in Hypertext', (2020) 118 OSAP 27;

— Duda J, Opiła J and Pełech-Pilichowski T, *Informatyzacja tekstu prawa. Perspektywy zastosowania języków znacznikowych* (Wolters Kluwer, Warszawa 2014);

Czepita S, 'On the Concept of a Conventional Act and its Varieties' (2017) Year LXXIX No. 1 Legal, Economic and Sociological Movement 85;

D'Amato A, 'Can/Should Computers Replace Judges?'(1997) 11 Georgia Law Review;

Da Silva Moore v. Publicis Groupe - 287 F.R.D. 182 (S.D.N.Y. 2012);

Dale R, 'Law and Word Order: NLP in Legal Tech' (2019) 25(1) Natural Language Engineering;

— 'Law and Word Order: NLP in Legal Tech' (Towards Data Science, 15 December 2018) <www.towardsdatascience.com/law-and-word-order-nlp-in-legal-tech-bd14257ebd06> accessed 4 January 2020;

DalleMulle L and Devenport T H, 'What's Your Data Strategy? The key is to balance offense and defense', < https://www.hbr.org/2017/05/whats-your-data-strategy> accesed 18 December 2020;

Daniels J and Rissland E, 'Integrating IR and CBR to locate relevant texts and passages' (Database and Expert Systems Applications, 8th International Conference, Proceedings, DEXA'97, Toulouse, 1-2 September 1997);

Davidson S, De Filippi P and Potts J, 'Disrupting Governance: The New Institutional Economics of Distributed Ledger Technology' (2016) <http://dx.doi.org/10.2139/ssrn.2811995> accessed 9 March 2021;

Davis A E, 'The Future of Law Firms (and Lawyers) in the Age of Artificial Intelligence' (American Bar Association , 2 October 2020) <www.americanbar.org/groups/professional_responsibility/publications/professional_lawyer/27/1/the-future-law-firms-and-lawyers-the-age-artificial-intelligence/?q=&wt=json&start=0> accessed 30 November 2020;

— 'The Future of Law Firms (and Lawyers) in the Age of Artificial Intelligence' (American Bar Association, 2 October 2020) <https://www.researchgate.net/publication/340322409_The_Future_of_Law_Firms_and_Lawyers_in_the_Age_of_Artificial_Intelligence> accessed 4 August 2021;

Daylami N, 'The origin and Construct of Cloud Computing', (2015) 9, 2 International Journal of the Academic Business World;

de Caria R, 'A Digital Revolution in International Trade? The International Legal Framework for Blockchain Technologies, Virtual Currencies and Smart Contracts: Challenges and Opportunities' (Modernizing International Trade Law to Support Innovation and Sustainable Development Proceedings of the Congress of the United Nations Commission on International Trade Law, July 2017) <https://aperto.unito.it/retrieve/handle/2318/1632525/464608/R.%20de%20Caria%2c%20A%20Digital%20Revolution%20%282017%29.pdf> accessed 2 February 2021;

— 'Definitions of Smart Contracts: Between Law and Code' in Larry A. DiMatteo, Michel Cannarsa, and Cristina Poncibò (eds) The Cambridge Handbook of Smart Contracts, Blockchain Technology and Digital Platforms (Cambridge University Press 2019);

de Maat E, Winkels R and van Engers T, 'Automated Detection of Reference Structures in Law' in Tom M. van Engers (ed) *Legal Knowledge and Information Systems* (IOS Press 2006).

Decentralized Identifiers (DIDs) v1.0. Core architecture, data model, and representations' (W3C, 3 August 2021) <https://www.w3.org/TR/did-core/> accessed 3 August 2021;

Deflem M and Chicoine S, 'History of Technology in Policing' in Gerben Bruinsma and David Weisburd (eds), *Encyclopedia of Criminology and Criminal Justice* (Springer 2017);

Del Castillo M, Blockchain 50 2021, <https://www.forbes.com/sites/michaeldelcastillo/2021/02/02/blockchain-50/?sh=207076dc231c> accessed 27 January 2021;

Del Castillo M, Forbes Blockchain 50 Of 2021: Cashing In On Bitcoin Mania <https://www.forbes.com/sites/michaeldelcastillo/2021/02/02/forbes-blockchain-50-corporate-america-cashes-in-on-bitcoin-mania/?sh=1bc729216e01> accessed 27 January 2021;

Deloitte Center for Government Insights, 'Future of Regulation. Case studies.' (Deloitte Center for Government Insights, 2018) <https://www2.deloitte.com/content/dam/Deloitte/us/Documents/public-sector/us-fed-future-of-regulation.pdf> accessed 5 February 2021;

Deloitte Legal, 'What's your problem? Legal Technology' (2018) Legal Management Consulting;

Denham H, De Vynck G and Lerman R, 'What is an NFT, and how did an artist called Beeple sell one for $69 million at Christie's?' The Washington Post (Washington D.C., 12 March 2021) <https://www.washingtonpost.com/technology/2021/03/12/nft-beeple-christies-blockchain/> accessed 15 March 2021;

Departament Oceny Skutków Regulacji, 'Ocena wpływu w rządowym procesie legislacyjnym.' (Gov.pl, 13 November 2020) <https://www.gov.pl/web/premier/ocena-wplywu-w-rzadowym-procesie-legislacyjnym> accessed 18 April 2021;

Dertouzos J N, Pace N M and Anderson R H, 'The Legal and Economic Implications of Electronic Discovery' 2008 Institute for Civil Justice;

Di Modica G, Di Stefano A, Morana G, Tomarchio O, 'On the Cost of the Management of user Applications in a Multicloud Environment' (7th International Conference on Future Internet of Things and Cloud (FiCloud), Istanbul, 2019);

Diaz v. Lobel's of New York LLC 16-CV-6349 (NY 2019);

Dickert T, 'Modernisierung des Zivilprozesses Diskussionspapier' (justiz.bayern.de) <https://www.justiz.bayern.de/media/images/behoerden-und-gerichte/oberlandesgerichte/nuernberg/diskussionspapier_ag_modernisierung.pdf> accessed 26 February 2021;

Die Bundesregierung, 'Künstliche Intelligenz (KI) ist ein Schlüssel zur Welt von morgen.' (Die Bundesregierung), <www.ki-strategie-deutschland.de.>accessed 26 Fabruary 2021;

Dignum V, *Responsible Artificial Intelligence, How to Develop and Use., AI in a Responsible Way* (Springer 2019);

Dimitropoulos G,'The Law of Blockchain' (2020) 1117 Washington Law Review;

Diver L, 'Digisprudence: the design of legitimate code.' (LawArXiv Papers, 14 July 2020) <https://doi.org/10.31228/osf.io/nechu> accessed 18 March 2021;

Dobjani E T, 'Length of proceedings as standard of due process of law in the practise of the Constitutional Court of Albania' (2016) 13 Academicus. International Scientific Journal;

Domash J, 'AI and its Impact on the Future of Regulatory Compliance' (A-Team Insight, 9 September 2020) <www.a-teaminsight.com/ai-and-its-impact-on-the-future-of-regulatory-compliance/?brand=ati> accessed 30 September 2020;

Domingos P, *The Master Algorithm: How the Quest for the Ultimate Learning Machine Will Remake Our World* (Brillance Audio 2017);

Duca L D, 'Facilitating expansion of Cross-Border E-Commerce- Developing a Global Online Dispute Resolution System' (2012) 1, 1 Penn State Journal of Law & International Affairs;

Dunbar K, 'Problem Solving" in William Bechtel and George Graham (eds), *A Companion to Cognitive Science* (Blackwell Publishers 1999);

Dybała G and Szpyt K, 'Odpowiedzialność odszkodowawcza za sztuczną inteligencję' (2021) 5 Gazeta Ubezpieczeniowa;

Dyduch X, 'Zawód adwokata (abogado) w Hiszpanii' w Michał. Masior (ed) *Analiza prawno-porównawcza ustroju korporacyjnego wolnych zawodów prawniczych oraz rynku usług prawniczych w wybranych państwach, w kontekście regulacji i rynku w Polsce z uwzględnieniem dostępności obywateli do tych usług*, (Instytut Wymiaru Sprawiedliwości 2018) <https://iws.gov.pl/wp-content/uploads/2018/08/IWS-Masior-M.-i-inni-Wolne-zawody-prawnicze.pdf> accessed 25 April 2021;

Dymiński M, Ferenc D, 'GDPR w łańcuchu bloków' (2020) 6 Przegląd Prawa Publicznego;

Dymitruk M, 'Sztuczna inteligencja w wymiarze sprawiedliwości?' in Luigi Lai and Marek Świerczyński (eds), Prawo sztucznej inteligencji (C. H. Beck 2020);

—, 'Need for explainable artificial intelligence in automated judicial proceedings' (Doctoral Consortium at 17th International Conference on Artificial Intelligence and Law, Montreal 17 – 21 June 2019);

Earsl A R, 'Multi-cloud strategy', <https://<searchcloudcomputing.techtarget.com/definition/multi-cloud-strategy> accessed 9 March 2021;

EBA, 'Report with advice for the European Commission on crypto-assets' (2019) <https://www.eba.europa.eu/sites/default/documents/files/documents/10180/2545547/67493daa-85a8-4429-aa91-e9a5ed880684/EBA%20Report%20on%20crypto%20assets.pdf> accessed 9 March 2021;

Ebers M, 'Legal Tech and EU Consumer Law' in: Larry A. DiMatteo, André Janssen, Pietro Ortolani, M. Canarsa, M. Durovic, F. de Elizalde, André Janssen, Pietro Ortolani, Francisco de Elizalde, Francisco de Elizalde, Michel Cannarsa, Mateja Durovic (eds), *Lawyering in the Digital Age*, (Cambridge University Press 2021);

—, 'Regulating AI and Robotics: Ethical and Legal Challenges' in Martin Ebers and Susana Navas (eds), *Algorithms and Law* (Cambridge University Press 2020);

—, LegalTech and EU Consumer Law (Cambridge 2021);

— and Navas S, *Algorithms and law* (UCL 2020);

Electronic Transactions Act <https://sso.agc.gov.sg/Act/ETA2010#P1I> accessed 27 January 2021;

Endicott T, *Vagueness in Law* (Oxford University Press 2000);

Engstron D F, 'Post-COVID courts' (2020) 68 UCLA Law Review Discourse;

Escajeda H G, 'The Vitruvian Lawyer: How to Thrive in an Era of AI and Quantum Technologies' (2020) XXIX Kansas J. of Law & Pub. Pol'y <https://ssrn.com/abstract=3534683>, accessed: 14 January 2021;

ETSI, *'Generic Framework for Multi-Domain Federated ETSI GANA Knowledge Planes (KPs) for End-to-End Autonomic (Closed-Loop) Security Management & Control for 5G Slices, Networks/Services'* (2020) 6 White Paper;

ETSI-GS-AFI-001, 'Autonomic network engineering for the self-managing Future Internet (AFI); ScenariosUse Cases and Requirements for Autonomic/Self-Managing Future Internet' (ETSI Group Specification 2011);

ETSI-GS-AFI-002, 'Autonomic network engineering for the self-managing Future Internet *(*AFI*)*; Generic Autonomic Network Architecture *(*An Architectural Reference Model for Autonomic Networking, Cognitive Networking and Self-Management*)*' (ETSI Group Specification 2013);

European Commision, 'Study on the use of innovative technologies in the justice field. Final report" (Publication Office European Union 2020);

European Commission, 'OPEN SOURCE SOFTWARE STRATEGY 2020 – 2023 Think Open' (Communication to the Commission, 21 November 2020) <https://ec.europa.eu/info/sites/default/files/en_ec_open_source_strategy_2020-2023.pdf> accessed 12 January 2021;

European Commission, 'Study on the use of innovative technologies in the justice field – Final Report' (2020) 120, <https://op.europa.eu/en/publication-detail/-/publication/4fb8e194-f634-11ea-991b-01aa75ed71a1/language-en> accessed 25 February 2021;

European Commission, White Paper On Artificial Intelligence - A European approach to excellence and trust, Brussels, COM(2020) 65 final <https://ec.europa.eu/info/sites/info/files/commission-white-paper-artificial-intelligence-feb2020_en.pdf> access 17 March 2021;

European Commission, '*Communication from the Commission to the European Parliament, the Council, the European Central Bank, the European Economic and Social Committee and the Committee of the Regions. FinTech Action plan: For a more competitive and innovative European financial sector*' (eur-lex.europa.eu, 2018);

European Parliamentary Research Service, 'Blockchain and the General Data Protection Regulation', PE 634.445 (2019) 4, <https://www.europarl.europa.eu/RegData/etudes/STUD/2019/634445/EPRS_STU(2019)634445_EN.pdf> accessed 10 October 2020;

European Parliament's Policy Department for Citizens' Rights and Constitutional Affairs, Artificial Intelligence and Law Enforcement: Impact on Fundamental Rights, PE 656.295, 2020, <https://www.europarl.europa.eu/RegData/etudes/STUD/2020/656295/IPOL_STU(>(2020)656295_EN.pdf> accessed 8 February 2021.

Evrotrust, 'Sending and receiving courts' decisions is already possible through the smartphone' (www.evrotrust.com, 9 February 2021) <https://www.evrotrust.com/landing/en/a/sending-and-receiving-courts-decisions-is-already-possible-through-the-smartphone> access 19 February 2021;

Expert Group on Liability and New Technologies – New Technologies Formation, 'Liability for Artificial Intelligence and Other Emerging Digital Technologies' (European Commission 2019);

Expert Group on Liability and New Technologies New Technologies Formation, Liability for Artificial Intelligence and other emerging digital technologies, 'Report' (European Union 2019);

Faccioli M in: Alessio Zaccaria, Martin Schmidt-Kessel, Reiner Schulze and Alberto M Gambino (eds) *EU eIDAS Regulation. Commentary* (Beck/Hart 2020);

Faction, 'What is Multi-Cloud? Everything You Need to Know', <https://www.factioninc.com/blog/what-is-multi-cloud/> accessed 28 December 2020;

644

Falkon S, 'The Story of the DAO — Its History and Consequences' (Medium, 24 December 2017) <https://medium.com/swlh/the-story-of-the-dao-its-history-and -consequences-71e6a8a551ee> accessed 19 January 2021;

Farzindar A and Lalapalme G, 'Machine Translation of Legal Information and Its Evaluation' in Nathalie Japkowicz and Yong Gao (eds) *Advances in Artificial Intelligence* (Springer 2009).

Fédération Suisse des Avocats, 'Indications et recommandations de la FSA pour la sous-traitanceinformatique et l'utilisation de services cloud' <https://www.sav-fsa .ch/fr/documents/dynamiccontent/190408-sav-guidelines-outsourcing_f-(4).pdf> accessed 9 January 2021;

Fenwick M, Kaal W A and Vermeulen E P M, 'Legal Education in a Digital Age. Why Coding Matters for the Lawyer of the Future' in Marcelo Corrales Compagnucci, Nikolaus Forgó, Toshiyuki Kono, Shinto Teramoto and Erik P. M. Vermeulen (eds) *Legal Tech and the New Sharing Economy* (Springer, 2020);

Ferguson A, 'Predictive Policing' (2017) 94 Washington University Law Review;

Ferrari F, '*Il processo civile telematico*' in Lotario Dittrich (ed) *Diritto Processuale Civile* (Utet Giuridica, 2019);

Ferrer A J, García Pérez D, Sosa González R, 'Multi-Cloud Platform-as-a-Service Model' (2016) 97 Functionalities and Approaches Procedia Computer Science;

Feteris E, *Fundamentals of Legal Argumentation. A Survey of Theories on the Justification of Judicial Decisions* (Springer 2017);

Financial Conduct Authority, 'Guidance on Cryptoassets Feedback and Final Guidance to CP 19/3' (2019) <https://www.fca.org.uk/publication/policy/ps19-22.pdf> accessed 7 February 2021;

Finck M, 'Blockchain and the General Data Protection Regulation, Can distributed ledgers be squared with European data protection law? ', (2019) Study. European Parliament;

— 'Smart Contracts as a Form of Solely Automated Processing under the GDPR' (2019) 9(2) International Data Privacy Law;

— *Blockchain Regulation and Governance in Europe* (CUP 2018);

— and Moscon V, 'Copyright Law on Blockchains: Between New Forms of Rights Administration and Digital Rights Management 2.0.' (2019) 50 IIC – International Review of Intellectual Property and Competition Law;

FINMA, 'Guidelines for enquiries regarding the regulatory framework for initial coin offerings (ICOs)' (2018) <https://www.finma.ch/en/~/media/finma/dokumente/dokumentencenter/myfinma/1bewilligung/fintech/wegleitung-ico.pdf?la=en> accessed 7 February 2021;

Finocchiaro G, 'Intelligenza artificiale e protezione dei dati personali' (2019) Giurisprudenza Italiana.

Finocchiaro G, 'Intelligenza artificiale e responsabilità' (2020) 2 *Contr. impr.*;

Fitzgibbons L, 'Data in use. Definition', <https://www.whatis.techtarget.com/definition/data-in-use>, accessed 15 January 2021;

Bibliography

Flasiński M, *Introduction to Artificial Intelligence* (Springer International Publishing 2016);

Flood J and Robb L, 'Professions and Expertise: How Machine Learning and Blockchain are Redesigning the Landscape of Professional Knowledge and Organisation' (2018) 18-20 Griffith University Law School Research Paper <https://<ssrn.com/abstract=3228950> accessed 19 January 2021;

Florida v Espinoza, Case No F14-2923 (Fla 11th Cir Ct) <https://www.morrisoncohen.com/siteFiles/files/2014_02_06%20-%20Florida%20v_%20Espinoza.pdf> accessed 7 February 2021;

Florida v. Espinoza, Case No. 3D16-1860;

Ford M, *Architects of Intelligence: The truth about AI from the people building it* (Packt Publishing, November 2018);

Francesconi E, 'A description logic framework for advanced accessing and reasoning over normative provision' (2014) 22(3) Artificial Intelligence and Law;

Fraser V and Roberge J-F, 'Legal Design Lawyering: Rebooting Legal Business Model with Design Thinking' (2016) 16 Prepperdine Dispute Resoluton Law Journal;

Freeman K, 'Algorithmic injustice: How the Wisconsin Supreme Court failed to protect due process rights in State v. Loomis' (2016) 5 North Carolina Journal of Law & Technology;

Frey C B, Osborne M A, 'The Future Of Employment: How Susceptible Are Jobs To Computerisation?' <oxfordmartin.ox.ac.uk/publications/the-future-of-employment/>, accessed: 13 March 2021;

Frické M H, 'Data-Information-Knowledge-Wisdom (DIKW) Pyramid, Framework, Continuum', in Laurie A. Schintler *and* Connie L. McNeely (eds) *Encyclopedia of Big Data* (Springer 2018) <https://doi.org/10.1007/978-3-319-32001-4_331-1> accessed 11 January 2021;

Fundacja LegalTech Polska, 'Diagnoza potrzeb prawników w zakresie wykorzystywania narzędzi informatycznych w usługach prawniczych' (Politechnika Warszawska, 2018) <https://legaltechpolska.pl/wp-content/uploads/2018/06/2018.06.25_Raport_LegalTech_ost.pdf> accessed 17 March 2021;

Furlong J, 'The evolution of the legal services market', <law21.ca/2012/11/the-evolution-of-the-legal-services-market-stage-1/>, accessed: 20 January 2021;

Gacyk M, *Zabawy w Boga. Ludzie o magnetycznych palcach* (Agora 2020) 1901;

Gajewski M, 'To były czasy. Kiedy po raz pierwszy uruchomiłem system z graficznym interfejsem i nie rozumiałem, co widzę' (Spider's Web, 7 December 2018) <www.spidersweb.pl/2018/12/microsoft-windows-3-1.html> accessed 20 May 2020;

Gamito M C and Ebers M, 'Algorithmic Governance and Governance of Algorithms: An Introduction' in Martin Ebers and Marta Cantero Gamito (eds), *Algorithmic Governance and Governance of Algorithms: Legal and Ethical Challenges* (Springer 2021);

Garapon A, 'Les enjeux de la justice prédictive' (2017) 1-2 La Semaine juridique;

646

Gatteschi V, Lamberti F and Demartini C, 'Technology of Smart Contracts' in Larry DiMatteo, Michel Cannarsa, Cristina Poncibò (eds), The Cambridge Handbook of Smart Contracts, Blockchain Technology and Digital Platforms (CUP 2019) <doi:10.1017/9781108592239.003> accessed 9 March 2021;

Gerard D, 'The KodakCoin ICO failed, and now everyone wants their money' (David Gerard, 10 December 2018) <https://davidgerard.co.uk/blockchain/2018/12/10/the-kodakcoin-ico-failed-and-now-everyone-wants-their-money/> accessed 6 February 2021;

Gerards J and Xenidis R, 'Algorithmic discrimination in Europe: Challenges and opportunities for gender equality and non-discrimination law' (European Commission 2020) < https://op.europa.eu/en/publication-detail/-/publication/082f1dbc-821d-11eb-9ac9-01aa75ed71a1> access 16 March 2021;

Gesetz zur Einführung der elektronischen Akte in der Justiz und zur weiteren Förderung des elektronischen Rechtsverkehrs dated 5. 7. 2017, Bundesgesetzblatt I 2017, 2208;

Giaccaglia M, 'Considerazioni su blockchain e smart contracts (oltre le criptovalute)' (2019) 3 Contr. impr.;

Gill K S, 'Data to Decision and Judgment Making – a Question of Wisdom' (2018) 30 IFAC Papers On Line;

Girasa R, *Artificial Intelligence as a Disruptive Technology. Economic Transformation and Government Regulation* (Palgrave Macmillan 2020);

Gitti G and Maugeri M, '*Blockchain-Based Financial Services and Virtual Currencies in Italy*' in *EuCML*, 2020, 43; for further information, see *Technical Committees ISO TC 307* available at <https://www.iso.org/committee/6266604.html> accessed 24 February 2021;

Gołaczyński J (eds), *Informatyzacja postępowania sądowego w prawie polskim i wybranych państw* (C. H. Beck 2009);

Gołaczyński J, 'e-Sąd przyszłości' (2019) 2 Monitor Prawniczy;

Gomez v. General Nutrition Corp. 323 F Supp 3d 1368 (FL 2018);

González-Espejo M-J and Pavón J (eds), *An Introductory Guide to Artificial Intelligence for Legal Professionals* (Kluwer Law International 2020);

Goodenough O R, 'Computational Jurisprudence 3.0' (SLS Blog, 5 February 2015) <https://law.stanford.edu/2015/02/05/computational-jurisprudence-3-0/> accessed 19 November 2020;

— 'Legal Technology 3.0' (HuffPost, 2 April 2015) <https://www.huffpost.com/entry/legal-technology-30_b_6603658?guccounter=1&guce_referrer=aHR0cHM6Ly9kZS53AWtpcGVkaWEub3JnLw&guce_referrer_sig=AQAAAJmQ5R47vQkZD-CLSEI62GMZFfamcZbEroAVqRj0BgQ3GNQ-M7_Mp42oSaiMJThfkfRJZ2XRPcDqKQplfWZyMly0joNI6cn_4BEIooGzWowCm_XIpcCaJidFyB_gju_bruNDzgN9wcy-tWt9MbzUWKIDaN8n4FSY6sEDJ5t-RSeB> accessed 19 November 2020;

647

— 'Getting to Computational Jurisprudence 3.0', [in:] Oliver Goodenough, Amedeo Santosuosso and Marta Tomasi (eds), 'The Challenge of Innovation in Law: The Impact of Technology and Science on Legal Studies and Practice' (Pavia University PressItaly 2015);

Goodman A, 'Predictive Coding: A Better Way to Deal with Electronically Stored Information' (2016) 43(1) Litigation;

Gordon T F, Prakken H, Walton D, 'The Carneades model of argument and burden of proof' (2007) 171(10-15) Artificial Intelligence;

Gordon T G, '20 Years of ICAIL – Reflections on the field of AI and Law' tfgordon.de 2007 <http://www.tfgordon.de/publications/> access 10 May 2021;

Górska M A and Marcinowska L, 'Czy blockchain namiesza w umowach dotyczących własności intelektualnej?', <https://newtech.law/pl/blockchain-namiesza-umowach-dotyczacych-wlasnosci-intelektualnej/> accessed 25 April 2021;

Gottschalk v Benson (1972) 409 U.S. 63;

Goździaszek Ł (ed), *Identyfikacja elektroniczna i usługi zaufania w odniesieniu do transakcji elektronicznych na rynku wewnętrznym Unii Europejskiej. Komentarz* (C. H. Beck 2020);

Grabmair M, *Modeling Purposive Legal Argumentation and Case Outcome Prediction Using Argument Schemes in the Value Judgment Formalism* (University of Pittsburgh 2016) <http://d-scholarship.pitt.edu/27608/, 2016> accessed 17 August 2021;

Grabowski M and Zając A, 'Dane, informacje, wiedza – próba definicji' (2009) 798 Zeszyty Naukowe Uniwersytetu Ekonomicznego w Krakowie;

Grant T D and Wischik D, *On the path to AI. Law's prophecies and the conceptual foundations of the machine learning age* (Palgrave Macmillan 2020);

Greenberg A, 'A Hacker Tried to Poison a Florida City's Water Supply, Officials Say' (Wired.com, 2 August 2021) <www.wired.com/story/oldsmar-florida-water-utility-hack> accessed 29 March 2021;

Grin O S, Grin E S and Solovyov A V, 'The Legal Design of the Smart Contract: The Legal Nature and Scope of Application' (2019) 8 Lex Russia;

Grisham J, *A Time to Kill* (Delta 2004) 369..

Grosman M R, Cormack G V, 'Inconsistent Responsiveness Determination in Document Review: Difference of Opinion or Human Error' (2012) 32 Pace L. Rev.;

Grossman M R and Cormack G V, 'Technology-Assisted Review in E-Discovery Can Be More Effective and More Efficient Than Exhaustive Manual Review' (2010) 17 , Rich. JL & Tech.;

Grupp M, 'Legal tech – Impulse fur Streitbeilegung und Rechtsdienstleistung' (2014) 8-9 Anwaltsblatt <https://www.juris.de/jportal/portal/page/bsabprod.psml?doc.id=jzs-AnwBl2014080019-000_660&st=zs&showdoccase=1&paramfromHL=true> accessed 18 November 2020;

Grzybowska N, 'Jest uzasadnienie wyroku ws. Amber Gold. Liczy 9345 stron I zaj-mie około 47 tomów akt sprawy' (gdansk.naszemiasto.pl, 29 July 2020) <https://gdansk.naszemiasto.pl/jest-uzasadnienie-wyroku-ws-amber-gold-liczy-9345-stron-i/ar/c1-7827784> accessed 7April 2021;

Guillaume F, 'Aspects of private international law related to blockchain trans-actions' in Daniel Kraus, Thierry Obrist and Olivier Hari (eds), *Blockchains, Smart Contracts, Decentralised Autonomous Organisations and the Law* (Edward Elgar 2019);

Gupta S, 'Sentiment Analysis: Concept, Analysis and Applications' (January 2018) https://<towardsdatascience.com/sentiment-analysis-concept-analysis-and-applica tions-6c94d6f58c17> accessed 12 March 2021;

Gürcan B, 'Jurisdiction on Blockchain' (2020) ICBEMM-ICISSS 14;

Gürkaynak G, Yılmaz I, Yeşilaltayy B and Bengi B, 'Intellectual Property Law and Practice in the Blockchain Realm' (2018) 34 Computer Law & Security Review;

Gyuranecz F Z, Krausz B and Papp D, 'The AI is Now in Session. The Impact of Digitalization on Courts' (2019);

Haapio H and Barton T D, 'Business-Friendly Contracting: How Simplification and Visualization Can Help Bring It to Practice' in Kai Jacob, Dierk Schindler and Roger Strathausen (eds), *Liquid Legal* (Springer 2017);

Hacker P, Krestel R, Grundmann S, Naumann F, 'Explainable AI under contract and tort law: legal incentives and technical challenges' (2020) 28 Artificial Intel-ligence and Law;

Hacker P, 'Towards a Flexible Framework for Algorithmic Fairness', in: Ralf H. Reussner, Anne Koziolek and Robert Heinrich (eds) *50. Jahrestagung der Gesell-schaft für Informatik, INFORMATIK 2020 – Back to the Future* (Karlsruhe 2020);

Hadj-Mabrouk H, 'Contribution of Artificial Intelligence to Risk Assessment of Railway Accidents' (2019) 5(2) Urban Rail Transit;

Hafner C, 'Representation of knowledge in a legal information retrieval system' [in:] *Proceedings of the 3rd annual ACM conference on research and development in information retrieval* 1980;

Hage J C, *Reasoning with Rules. An Essay in Legal Reasoning and its Underlying Logic* (Springer 1997);

—, 'Formalizing legal coherence' in Ronald Prescott Loui (ed) *Proceedings of the Eighth International Conference on Artificial Intelligence and Law, ICAIL 2001* (ACM 2001);

—, Brożek B and Vincent N (eds.), *Law and Mind. A Survey of Law and the Cognitive Sciences* (Cambridge University Press 2021);

Halsey M and de Van-Palumbo M, 'Courts as empathic spaces: reflections on the Melbourne neighbourhood justice centre' (2018) 2 Grifith Law Review;

Hangzhou Huatai Media Culture Media Co., Ltd. v. Shenzhen Daotong Technolo-gy Development Co., Ltd. Case of Dispute over Right of Dissemination over Internet (The Supreme People's Court of the People's Republic of China, 4 April 2019) <http://english.court.gov.cn/2019-12/04/content_37527759.htm> accessed 9 February 2021;

Harrington W G, 'A Brief History of Computer-Assisted Legal Research' (1984) 77, 3 Law. Libr. J.;

Hartung M, Bues M-M, Halbleib G, Legal Tech. Die Digitalisierung des Rechtsmarkts (C. H. Beck 2018);

— Bues M-M and Halbleib G, *Legal Tech: How Technology Is Changing the Legal World* (C. H. Beck 2018);

— Bues M-M and Halblieb G, *Legal Tech, How Technology is Changing the Legal World* (Nomos 2018);

Hasal M, Nowaková J, Saghair K H, Abdulla H, Snášel V, 'Chatbots: Security, privacy, data protection, and social aspects' <https://onlinelibrary.wiley.com/doi/full/10.1002/cpe.6426> accessed 25 July 2021;

Hassan S and De Filippi P, 'The Expansion of Algorithmic Governance: From Code is Law to Law is Code' (2017) 17 Field Actions Science Reports;

Hellwig D, Karlic G, Huchzermeier A, Build Your Own Blockchain (C. H. Beck 2020);

Henderson J and Bench-Capon T, 'Describing the Development of Case Law' in Floris Bex (ed) *Proceedings of the Seventeenth International Conference on Artificial Intelligence and Law, ICAIL 2019* (ACM 2019);

High Level Group of Independent Stakeholders on Administrative Burdens, *Europe can do better. Report on the best practice for implementing EU legislation in Member States in the least burdensome way* (European Commission, 15 November 2011);

High-Level Expert Group on Artificial Intelligence, 'A definition of AI: Main capabilities and scientific disciplines' (European Commission, April 2019) <https://ec.europa.eu/newsroom/dae/document.cfm?doc_id=56341> accessed 11 December 2020;

Hildebrandt M, 'The adaptive nature of text-driven law' (2021) 1(1) Journal of Cross-Disciplinary Research in Computational Law <https://journalcrcl.org/crcl/article/view/2> accessed 26 April 2021;

HM Land Registry to explore the benefits of blockchain <https://www.gov.uk/government/ news/hm-land-registry-to-explore-the-benefits-of-blockchain> accessed 27 January 2021;

Hoekstra R, Breuker J, Di Bello M, Boer A, 'LKIF Core: Principled Ontology Development for the Legal Domain' (2009) 188 Frontiers in Artificial Intelligence and Applications;

Holmes O W, 'The Path of the Law' (1897) 457 Harvard Law Review;

Hondius E, Silva M S, Nicolussi A, Coderch P S, Wendehorst C and Zoll F (eds), *Coronavirus and the Law in Europe* <https://www.intersentiaonline.com/bundle/coronavirus-and-the-law-in-europe>, accessed 12 August 2021.

Hong J, Dreibholz T, JSchenkel J A,Hu J A, 'An Overwiew of Multi-Cloud Computing' in Leonard Barolli, Makoto Takizawa, Fatos Xhafa, Tomoya Enokido (eds), *Web, Artificial Intelligence and Network Applications. Proceedings of the Workshops of the 33rd International Conference on Advanced Information Networking and Applications* (WAINA-2019);

Hongdao Q and others, 'Legal Technologies in Action: The Future of the Legal Market in Light of Disruptive Innovations' (2019) Sustainability;

Hook A, 'The Use and Regulation of Technology in the Legal Sector beyond England and Wales, Research Paper for the Legal Services Board' (Hook Tangaza, 2019) <https://www.legalservicesboard.org.uk/wp-content/uploads/2019/07/International-AH-Report-VfP-4-Jul-2019.pdfhttps://www.legalservicesboard.org.uk/wp-content/uploads/2019/07/International-AH-Report-VfP-4-Jul-2019.pdf> accessed 16 March 2021;

Horty J F, 'Reasoning with dimension and magnitudes' (2019) 27(3) Artificial Intelligence and Law;

Hosier R, 'Evolution of the Law Firm: Why Clients Demand that You Embrace New Technology' (Legal Futures, 28 October 2020) <www.legalfutures.co.uk/features/evolution-of-the-law-firm-why-clients-demand-that-you-embrace-new-technology> accessed 16 November 2020;

Houben R and Snyers A, 'Crypto-assets. Key developments, regulatory concerns and responses' (European Parliament's Committee on Economic and Monetary Affairs 2020) <https://www.europarl.europa.eu/RegData/etudes/STUD/2020/648779/IPOL_STU(2020)648779_EN.pdf> accessed 7 February 2021;

— and Snyers A, 'Cryptocurrencies and blockchain. Legal context and implications for financial crime, money laundering and tax evasion', (European Parliament's Special Committee on Financial Crimes, Tax Evasion and Tax Avoidance 2018), <https://www.europarl.europa.eu/cmsdata/150761/TAX3%20Study%20on%20cryptocurrencies%20and%20blockchain.pdf> accessed 8 February 2021;

Howard L K, 'Security by Design' (2019) 12(2) Journal of Physical Security;

Howarth D, *Law As Engineering: Thinking about What Lawyers Do* (Edward Elgar Publishing 2014);

Hudobnik M, 'Data protection and the law enforcement directive: a procrustean bed across Europe? ' (2020) 21 ERA Forum;

HYTrust, 'Protecting sensitive data and achieving compliance in a multi-cloud world', <https://www.hytrust.com/uploads/Compliance-in-a-Multi-Cloud-World_WP.pdf> accessed 11 January 2021);

I ACa 504/19, Legalis;

Ibáñez L-D, O'Hara K, Simperl H, 'On Blockchains and the General Data Protection Regulation', <https://www.eublockchainforum.eu/sites/default/files/research-paper/blockchains-general-data_4.pdf> accessed 9 January 2021;

ILTA's, '2020 Technology Survey', <https://www.iltanet.org/resources/publications/surveys/2020ts?ssopc=1>, accessed 9 March 2021;

Indurkhya N, Damerau F J, *Handbook of Natural Language Processing* (Chapman & Hall/CRC 2010);

Innovative Technology Arrangement and Services Act (ITAS) <https://legislation.mt/eli/cap/592/eng/pdf> access 2 February 2021;

Institut Luxembourgeois de la Normalisation, de l'Accréditation, de la Sécurité et qualité des produits et services, 'Trust Services Under the eIDAS Regulation' (Portail-qualite.lu, June 2018), <https://portail-qualite.public.lu/content/dam/qualite/publications/confiance-numerique/trustservices-under-eIDAS.pdf> access 19 February 2021;

Insurance Information Institute, 'Facts + Statistics: Identity theft and cybercrime' (iii.org) <www.iii.org/fact-statistic/facts-statistics-identity-theft-and-cybercrime> accessed 29 March 2021;

International Bar Association, 'LPRU Cybersecurity' (Ibanet.org, 2018) <https://www.ibanet.org/LPRU/Cybersecurity> accessed 17 August 2021

International Software Testing Qualifications Board®, 'Certified Tester Foundation Level Syllabus.' (International Software Testing Qualifications Board, 11 November 2019) <https://www.istqb.org/downloads/send/2-foundation-level-documents/281-istqb-ctfl-syllabus-2018-v3-1.html> accessed 18 April 2021;

Islam N, Islam Z and Noor N, 'A Survey on Optical Character Recognition System' (2016) 10 Journal of Information & Communication Technology -JICT <https://arxiv.org/abs/1710.05703> accessed 8 February 2021;

Israni E, 'Algorithmic Due Process: Mistaken Accountability and Attribution in State v. Loomis' (Jolt Digest, 31 August 2017) <https://jolt.law.harvard.edu/digest/algorithmic-due-process-mistaken-accountability-and-attribution-in-state-v-loomis-1> accessed 8 February 2021;

ITU-T, 'Series X: Data Networks and Open System Communications. OSI Networking and System Aspects – Efficiency' (1998) ITU-T Recommendation X.630;

IV Ka 290/18, Legalis;

Jakubik M and Świetnicki T, 'Technologia coraz bardziej obecna w pracy prawników' <https://<www.prawo.pl/prawnicy-sady/informatyka-w-pracy-prawnikow-eksperci-pisza-o-legal-tech,504169.html> accessed 25 April 2021;

Janowski J, *Informatyka prawa. Zadania i znaczenie w związku z kształtowaniem się elektronicznego obrotu prawnego* (Wydawnictwo UMCS 2011) 328 – 340;

Janowski J, *Informatyka prawnicza* (C. H. Beck 2011);

Juang B-H and, Rabiner L R, 'Automatic speech recognition – a brief history of the technology development' (2005) Georgia Institute of Technology. Atlanta Rutgers University and the University of California. Santa Barbara;

Judgement of the Federal Supreme Court (BGH) from 27 November 2019, VIII ZR 285/18, NJW 2020;

Kahnemann D, *Thinking fast and slow* (Farrar, Straus and Giroux, 2011);

Karoussos H F, 'Law & The Digital Disruption: The Impact of ICT and AI on the Legal Profession' (2017) American College of Greece Research Paper <www.researchgate.net/publication/321527178_Law_The_Digital_Disruption_The_Impact_of_ICT_and_AI_on_the_Legal_Profession> accessed 25 February 2021;

Kastrop C, 'Human Rights in the Era of AI – Europe as International Standard Setter for Artificial Intelligence' (2021) <https://www.coe.int/en/web/artificial-intelligence/human-rights-in-the-era-of-ai> access 17 March 2021;

Katz D M, Bommarito II M J and Blackman J, 'A General Approach for Predicting the Behavior of the Supreme Court of the United States'(2017) 3 PLOS ONE;

Kayser-Bril N, 'At least 11 police forces use face recognition in the EU, Algorithm-Watch reveals' (Algorithm Watch, 11 December 2019, updated 19 June 2020) <https://algorithmwatch.org/en/story/face-recognition-police-europe/> accessed 8 February 2021;

Kephart J O and Chess D M, 'The Vision of Autonomic Computing' (2003) 36(1) IEEE Computer;

Keppens J, 'Explainable Bayesian Network Query Results via Natural Language Generation Systems' (Proceedings of the Seventeenth International Conference on Artificial Intelligence and Law (ICAIL '19), Montreal, 17 – 21 June 2019);

Kerikmae T (ed), *Regulating eTechnologies in the European Union. Normative Realities and Trends* (Springer 2014);

Kerikmäe T and others, 'Legal Technology for Law Firms: Determining Roadmaps for Innovation' (2018) Croatian International Relations Review;

Kerikmäe T and Pärn-Lee E, 'Legal dilemmas of Estonian artificial intelligence strategy: in between of e-society and global race' (2020) AI & Society <https://doi.org/10.1007/s00146-020-01009-8> accessed 7 April 2021.

Keyvanpour M R, Javideh Mand , Ebrahimi M R, 'Detecting and investigating crime by means of data mining: a general crime matching framework' (2011) 3 Procedia Computer Science;

Kitchin R, 'Thinking critically about and researching algorithms' (2017) 20:1 Information, Communication & Society;

Klimas K and Klimas D, `Electronic Communication in European Cross-border Proceedings – Polish Perspective` in Jacek Gołaczyński, Wolfgang Kilian and Tomasz Scheffler (eds) *Legal Innovation in Polish Law* (C. H. Beck 2019);

Klimczuk A, 'Chmura jak powietrze: cyfrowa transformacja kancelarii prawnej Magnusson' <https://news.microsoft.com/pl-pl/2016/12/13/chmura-jak-powietrze-cyfrowa-transformacja-kancelarii-prawnej-magnusson/> accessed 9 March 2021;

Kõlvart M, Poola M, Rull A, 'Smart Contracts' in Tanel Kerikmäe, Addi Rull (eds) The Future of Law and eTechnologies (Springer 2016);

Kowalski R A., 'Legislation as Logic Programs' in Zenon Bankowski and others (eds) *Informatics and the Foundations of Legal Reasoning* (Springer 1995);

Krajowa Izba Radców Prawnych,`Sądy w trybie online – zdalna praca sądów w wybranych państwach europejskich w czasach pandemii SARS-COV-19` (2020) <https://kirp.pl/wp-content/uploads/2020/05/opracowanie-komisji-zagranicznej-krrp.-sady-w-trybie-online..pdf> accessed 13 January 2020;

Krasuski A, Status prawny sztucznego agenta, Podstawy prawne zastosowania sztucznej inteligencji (C. H. Beck 2020);

Kubat M, *An Introduction to Machine Learning* (Springer International Publishing 2017);

Kucharska E, 'BriefCam - one system, many possibilities' (2019) 12, Stołeczny Magazyn Policyjny;

653

Bibliography

Kucharski B, *Świadczenie ubezpieczyciela w umowie ubezpieczenia mienia* (Wolters Kluwer 2019);

Kuijer M, 'The right to a fair trial and the Council of Europe's efforts to ensure effective remedies on a domestic level for excessively lengthy proceedings' (2013) 13 Human Rights Law Review;

Kulawiński M, '*Transhumanizm, cyborgizacja, ulepszanie człowieka*' <researchgate.net /publication/334448348_Transhumanizm_cyborgizacja_ulepszanie_czlowieka> accessed 13 January 2021;

Kurki V A J, 'Why Things Can Hold Rights: Reconceptualizing the Legal Person' in Visa A. J. Kurki, Tomasz Pietrzykowski (eds) *Legal Personhood: Animals, Artificial Intelligence and the Unborn* (Springer 2017);

Layne K, Lee J, `Developing Fully Functional e-Government: A Four Stage Model` (2001) 18 Government Information Quarterly 122;

Lazuashvili N, Norta A and Draheim D, 'Integration of Blockchain Technology into a Land Registration System for Immutable Traceability: A Casestudy of Georgia' in Claudio Di Ciccio and others (eds) Business Process Management: Blockchain and Central and Eastern Europe Forum (Springer 2019);

Leake D B, 'Case-Based Reasoning,' in William Bechtel and George Graham (ed), A Companion to Cognitive Science (Blackwell Publishers 1999);

Lee J, Khan V M, ' ,Blockchain and Smart Contract for Peer-to-Peer Energy Trading Platform: Legal Obstacles and Regulatory Solutions' (2020) 19 UIC REV. INTELL. PROP. L.;

Lee K-F, *Inteligencja Sztuczna Rewolucja Prawdziwa. Chiny, USA i przyszłość świata* (Media Rodzina 2019);

Leeb C-M, *Digitalisierung, Legal Technology und Innovation* (Duncker & Humblot, 2019);

Legaltechies, 'El estado de la Legaltech en… Mèxico' (legaltechies.ec, 25 November 2020) <https://bit.ly/371wbZk> accessed 10 February 2021.

Legg M and Bell F, 'Artificial Intelligence and the Legal Profession: Becoming The AI-Enhanced Lawyer' (2019) 38(2) University of Tasmania Law Review 59, <ssrn.com/abstract=3725949> accessed: 19 January 2021;

Legner Ch and Webernde K, 'Electronic bill presentment and payment', <https://< www.researchgate.net/publication/221408047_Electronic_Bill_Presentment_an d_Payment/link/55746c1f08ae7536374fee56/download> accessed 25 April 2021;

Legrand J, 'Some guidelines for fuzzy sets application in legal reasoning' (1999) 7 Artificial Intelligence and Law;

Lehmann J and Gangemi A, 'An ontology of physical causation as a basis for assessing causation in fact and attributing legal responsibility' (2007) 15(3) Artificial Intelligence and Law;

Lehmann M, 'Who Owns Bitcoin? Private Law Facing the Blockchain' (2019) 21 Minnesota Journal of Law, Science & Technology <https://scholarship.law.umn. edu/cgi/viewcontent.cgi?article=1474&context=mjlst> accessed 15 March 2021;

Leiser M and Custers B, 'The Law Enforcement Directive: Conceptual Challenges of EU Directive 2016/680' (2019) 5, European Data Protection Law Review;

654

Leiser M R, 'Private jurisprudence' and the right to be forgotten balancing test,' (2020) 29 Computer Law & Security Review;

Lemkowska M, 'Funkcje ubezpieczeń gospodarczych a zrównoważony rozwój', (2020) 2 Wiadomości Ubezpieczeniowe;

Lessig L, *Code and Other Laws of Cyberspace* (1st edn, Basic Books 1999);

— *Code and Other Laws of Cyberspace. Version 2.0* (2nd revised edn, Basic Books 2006);

Leszczyński L, 'O wykładni prawa i jej wymiarze praktycznym. Kontekst sądowego stosowania prawa' (2020) 2 Archiwum Filozofii Prawa i Filozofii Społecznej;

Leszczyński L, 'Wykładnia operatywna (podstawowe właściwości).' (2009) 6 Państwo i Prawo;

Łętowska E, 'Dekalog dobrego sędziego'(2016) 1 Krajowa Rada Sądownictwa;

Letterton R, 'L'accés numérique au droit' (2018) 3 Annales des Mines;

Licini C, 'Il notaio dell'era digitale: riflessioni gius-economiche' (2018) 2 Notariato;

Linee Guida sulla formazione, gestione e conservazione dei documenti informatici <https://www.agid.gov.it/it/linee-guida> accessed 25 February 2021;

Lingwall J and Mogallapu R., 'Should Code Be Law? Smart Contracts, Blockchain, and Boilerplate' (2019) 88:1 University of Missouri-Kansas City Law Review;

Lippe P and Katz D M, '10 Predictions about how IBM's Watson will impact the Legal Profession' (ABA Journal: Legal Rebels, 2 October 2014) <https://www.abajournal.com/legalrebels/article/10_predictions_about_how_ibms_watson_will_impact> accessed 19 November 2020;

Litwiński P (ed.), *Rozporządzenie UE w sprawie ochrony osób fizycznych w związku z przetwarzaniem danych osobowych i swobodnym przepływem takich danych. EU Regulation on the protection of individuals with regard to the processing of personal data and on the free movement of such data* (C. H. Beck 2018);

Liu L, *Introduction to the Semantic Web and Semantic Web Services* (Chapman and Hall/CRC 2019);

Lodge M, 'Software Testing Is Tedious. AI Can Help.' (Harvard Business Review Home, 22 February 2021) <https://hbr.org/2021/02/software-testing-is-tedious-ai-can-help#> accessed 18 April 2021;

Loevinger L, 'Jurimetrics: The Next Step Forward' (1949) 33, 5 Minn L Rev;

Lord N, 'Data Protection: Data In transit vs. Data At Rest', <https://www.digitalguardian.com/blog/data-protection-data-in-transit-vs-data-at-rest> accessed 13 January 2021;

Losano M G, *Giuscibernetica: Macchine e modelli cibernetici nel diritto* (Einaudi 1969);

Louis Larret-Chahine, 'Lille, premier barreau à tester la justice predictive!' (Predictice Blog, 1- August 2017) <https://blog.predictice.com/lille-est-le-premier-barreau-%C3%A0-tester-la-justice-pr%C3%A9dictive> accessed 31 March 2021;

Lubasz D in Edyta Bielak-Jomaa and, Dominik. Lubasz (eds) *RODO. Ogólne Rozporządzenie o Ochronie Danych. komentarz* (Wolters Kluwer 2017);

Bibliography

Łukańko B, 'Uchybienie przepisom o ochronie danych osobowych jako naruszenie dobra osobistego – analiza na przykładzie orzecznictwa Sądu Najwyższego' (2016) 46 UWM, Studia Prawnoustrojowe;

Lynch C, Ashley K D, Pinkwart N and Aleven V, 'Concepts, Structure and Goals: Redefining Ill-Definededness' (2009) 19 International Journal of Artificial Intelligence in Education;

Macdonald C, 'Pentagon working to develop technology that would let troops control machines with their MINDS' (Daily Mail 17 July 2018) <dailymail.co.uk /sciencetech/article-5963803/Pentagon-working-develop-technology-let-troops-control-machines-MINDS.html?ns_mchannel=rss&ito=1490&ns_campaign=1490> accessed 18 January 2021;

Magyar Nemzeti Bank, 'Kriptovaluta, nyereségrészesedési jog: fokozott befektetői kockázatok' (mnb.hu, 14 February 2020) <https://www.mnb.hu/sajtoszoba/sajto kozlemenyek/2020-evi-sajtokozlemenyek/kriptovaluta-nyeresegreszesedesi-jog-fo kozott-befektetoi-kockazatok> accessed 1 March 2021;

Malinowska K, 'Aspekty prawne ubezpieczenia cyber ryzyk' (2018) 2 Prawo Asekuracyjne;

Mangan D, 'Lawyers could be the next profession to be replaced by computers' (CNBC 13 February 2017) <www.cnbc.com/2017/02/17/lawyers-could-be-replace d-by-artificial-intelligence.html> accessed 20 January 2021;

Mapperson J, Ethereum Smart Contracts up 75 % to Almost 2M in March <https:// cointelegraph.com/news/ethereum-smart-contracts-up-75-to-almost-2m-in-marc h> accessed 27 January 2021;

Marano P and Noussia K. (eds), InsurTech: A Legal and Regulatory View (Springer 2020);

— and Szostek D, Smart Contract and Insurance (Palgrawe McMillan 2021);

Marczak B and others, 'Hide and seek, Tracking NSO Group's Pegasus Spyware to Operations in 45 Countries' (citizenlab.ca, 18 September 2018) <https://citizenla b.ca/2018/09/hide-and-seek-tracking-nso-groups-pegasus-spyware-to-operations-i n-45-countries/> accessed 29 March 2021;

Markowski K, 'Kryptowaluty. Powstanie-typologia-charakterystyka' (2019) 3 Civitas et Lex;

Marrow P, Karol M and Kuyan S, 'Artificial Intelligence and Arbitration: The Computer as an Arbitrator. Are We There Yet?'(2020) 4 Dispute Resolution Journal;

Martinek J, 'Lisp – opis, realizacja i zastosowania' (Wydawnictwa Naukowo-Techniczne, Warszawa 1980);

Martini M, 'Fundamentals of a Regulatory System for Algorithm-based Processes' (2019) <https://www.vzbv.de/sites/default/files/downloads/2019/07/19/martini_r egulatory_system_algorithm_based_processes.pdf> accessed 18 November 2020;

Masior M, 'Wolne zawody prawnicze w Anglii i Walii oraz reforma ich regulacji' w Michał. Masior (ed) *Analiza prawno-porównawcza ustroju korporacyjnego wolnych zawodów prawniczych oraz rynku usług prawniczych w wybranych państwach, w kontekście regulacji i rynku w Polsce z uwzględnieniem dostępności obywateli do tych usług*, (Instytut Wymiaru Sprawiedliwości 2018) <https://iws.gov.pl/wp-content/uploads/2018/08/IWS-Masior-M.-i-inni-Wolne-zawody-prawnicze.pdf> accessed 25 April 2021;

Masoni R, 'Diritto processuale civile dell'emergenza epidemiologica (a seguito della conversione in legge del decreto ristori)', (2021) *Giust. civ.*, available at <https://giustiziacivile.com> accessed 25 February 2021;

Maxwell D, Speed Ch, Pschetz L, 'Story Blocks: Reimagining Narrative through the Blockchain.' (2017) 23 Convergence;

Maxwell T and Schafer B, 'Concept and Context in Legal Information Retrieval' (Proceedings of the 2008 conference on Legal Knowledge and Information Systems: JURIX 2008: The Twenty-First Annual Conference, 8 July 2008);

— and Schafer B, 'Concept and Context in Legal Information Retrieval' (Proceedings of the 2008 conference on Legal Knowledge and Information Systems: JURIX 2008: The Twenty-First Annual Conference, 8 July 2008);

Mazzarese T, 'Fuzzy Logic and Judicial Decision-Making: A New Perspective on the Alleged Norm-Irrationalism' (1993) 2 Proceedings of the Computer and Vagueness: Fuzzy Logic and Neural Nets. Informatica e diritto;

McCarty L T and Sridharan N, 'The Representation of an Evolving System of Legal Concepts: II. Prototypes and Deformations' (Proceedings of the Seventh International Joint Conference on Artificial Intelligence: IJCAI-81, Vancouver, 24-28 August 1981);

— 'An Implementation of Eisner v. Macomber', in L. Thorne McCarty (ed) *Proceedings of the Fifth International Conference on Artificial Intelligence and Law, ICAIL'95* (ACM 1995);

— 'Some Arguments About Legal Arguments', in John Zeleznikow, Daniel Hunter, L. Karl Branting (eds) *Proceedings of the Sixth International Conference on Artificial Intelligence and Law, ICAIL '97* (ACM 1997);

— 'Reflections on TAXMAN: an experiment in artificial intelligence and legal reasoning' (1977) 90, 5 Harv. L.aw Rev.;

McEwan I, *Maszyny takie jak ja*, (Albatros 2019);

McIntyre H, 'Spotify Has Acquired Blockchain Startup Mediachain' <https://www.forbes.com/sites/hughmcintyre/2017/04/27/spotify-has-acquired-blockchain-startup-mediachain/?sh=6c9ffaf369ee> accessed 27 January 2021;

McJohn S and McJohn I, 'The Commercial Law of Bitcoin and Blockchain Transactions' (2016) 16-13 Legal Studies Research Paper Series Research Paper;

McKamey M, 'Legal Technology: Artificial Intelligence and the Future of the Law Practice' (2017) 45 APPEAL 22 Review of Current Law and Law Reform <ssrn.com/abstract=3014408> accessed: 19 January 2021;

Medvedeva M, 'Using machine learning to predict decisions of the European Court of Human Rights', (2020) 28 Artificial Intelligence and Law;

Bibliography

Mehl L, *Automation in the legal world* (National Physical Laboratory, 1958);

— *Automation in the legal world* (National Physical Laboratory 1958);

Mehrabi N, Morstatter F, Saxena N, Lerman K and Galstyan A, 'A Survey on Bias and Fairness in Machine Learning' (2019) arXiv preprint arXiv:1908.09635;

Meijer A and Wessels M, 'Predictive Policing: Review of Benefits and Drawbacks' (2019) 42, International Journal of Public Administration;

Mell P and Grance T, 'The NIST Definition of Cloud Computing: Recommendations of National Institute of Standards and Technology' (2011) No. 800-145 Computer Security Division, Information Technology Laboratory, National Institute of Standards and Technology <csrc.nist.gov/publications/nistpubs/800-14 5/SP800-145.pdf> accessed January 2021;

Metsker O, Trofimov E, Grechishcheva S, 'Natural Language Processing of Russian Court Decisions for Digital Indicators Mapping for Oversight Process Control Efficiency: Disobeying a Police Officer Case' (Electronic Governance and Open Society: Challenges in Eurasia, 5th International Conference, EGOSE 2018, St. Petersburg 2018);

Miller E, 'Can AI Be a Fair Judge in Court? Estonia Thins So' (WIRED 3 March 2019) <http://www.wired.com/> accessed 7 April 2021;

Miller M S, 'The Future of Law' CAPLET.COM (August 1997) <www.caplet.com/s ecurity/futurelaw> accessed 16 March 2021;

Mills M, 'Artificial Intelligence in Law: The State of Play, 2016, Part 3' <https://ww w.neotalogic.com/wp-content/uploads/2016/04/Artificial-Intelligence-in-Law-Th e-State-of-Play-2016.pdf> accessed 25 April 2021;

— 'Artificial Intelligence in Law: the State of Play 2016' (Thomson Reuters, 2016) <https://britishlegalitforum.com/wp-content/uploads/2016/12/Keynote-Mills-AI-i n-Law-State-of-Play-2016.pdf> accessed 8 February 2021;

Minh Dung P, 'On the Acceptability of Arguments and Its Fundamental Role in Nonmonotonic Reasoning, Logic Programming and n-person Games' (1995) 77(2) Artificial intelligence;

Ministerstwo Cyfryzacji, Grupa robocza ds. rejestrów rozproszonych i blockchain, 'GDPR a technologia blockchain', <https://www.google.com/url?sa=t& rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwj1rtT-scTvAhVmsYsKHcsT AC8QFjAAegQIARAD&url=https%3A%2F%2Fwww.gov.pl%2Fattachment%2F d39a05b8-f04c-4e7c-93ac-3b5b9946ed0c&usg=AOvVaw2Ngh2B3Pcf1XAUCdepl nnC9> accessed 19 Ferbruaty 2021;

Ministerstwo Gospodarki and Kancelaria Prezesa Rady Ministrów, 'Wytyczne do przeprowadzania oceny wpływu oraz konsultacji publicznych w ramach rządowego procesu legislacyjnego.' (Rządowe Centrum Legislacji) <http://www1.rcl.g ov.pl/?q=book/wytyczne> accessed 5 February 2021;

Minsky M, 'A Framework for Representing Knowledge' in Patrick H. Winston (ed) Psychology of Computer Vision (MIT Press 1975);

Mitchell R L, 'Predictive policing gets personal' (ComputerWorld, 24 October 2013) <https://www.computerworld.com/article/2486424/predictive-policing-get s-personal.html> accessed 8 February 2021;

Mitnick Security, 'The weakest link in safety is still man. Kevin Mitnick showed us how to outsmart us' < Sobczak K, 'Coraz więcej cyberataków na firmy prawnicze' <https://www.prawo.pl/prawnicy-sady/cyberbezpieczenstwo-coraz-wiecej-atakow-na-firmy-prawnicze,505642.html> accessed 25 April 2021;

Modgil S, Prakken H, The ASPIC+ framework for structured argumentation: a tutorial, (2014) Argument and Computation 5(1);

Modrák V and Šoltysová Z, `Development of an Organizational Maturity Model in Terms of Mass Customization` in Dominik T. Matt, Vladimir Modrák and Helmut Zsifkovits (eds) *Industry 4.0 for SMEs* (Palgrave Macmillan 2020) 215 <https://doi.org/10.1007/978-3-030-25425-4_8> accessed 12 January 2021;

Modrzejewski M, 'Podatkowe aspekty korzystania z oprogramowania komputerowego w modelu SaaS (Software as a Service)' (2016) 8 Przegląd Podatkowy;

Moens M-F, Uyttendaele C and Dumortier J, 'Information extraction from legal texts: the potential of discourse analysis' (1999) 51 International Journal of Human-Computer Studies;

Moens M-F, Uyttendaele C and Dumortier J, 'Abstracting of legal cases: The SALOMON experience' (ICAIL'97: Proceedings of the 6th international conference on Artificial Intelligence and Law, Melbourne, 30 June – 3 July 1997);

Moguillansky M O, Rotolo A, Simari G R, 'Hypotheses and their dynamics in legal argumentation' (2019) 129 Expert Systems and Applications;

Mohun J and Roberts A, 'Cracking the code. Rulemaking for humans and machines' (2020) 40 OECD Working Papers on Public Governance <https://doi.org/10.1787/3afe6ba5-en> accessed 5 February 2021;

Molęda M, 'Cyber is the new black', (2018) 6 Miesięcznik Ubezpieczeniowy;

Monash University, 'Deepfakes detect Zoom-bombing culprits' (monash.edu, 25 January 2021) <www.monash.edu/it/about-us/news-and-events/latest/articles/2021/deepfakes-detect-zoom-bombing-culprits> accessed 29 March 2021;

Morand A-S, 'So kollidiert die DSGVO mit der Blockchain' (Netzwoche, 1 September 2020) <https://www.netzwoche.ch/news/2020-09-01/so-kollidiert-die-dsgvo-mit-der-blockchain/0lt0> accessed 25 February 2021;

Mougayar W, 'Tokenomics — A Business Guide to Token Usage, Utility and Value' (Medium, 10 June 2017) <https://medium.com/@wmougayar/tokenomics-a-business-guide-to-token-usage-utility-and-value-b19242053416> accessed 6 February 2021;

Mouttotos N, 'Reform of civil procedure in Cyprus: Delivering justice in a more efficient and timely way'(2020) 2 Common Law World Review;

Murphy J P, 'E-Discovery in Criminal Matters - Emerging Trends & the Influence of Civil Litigation Principles' (2010) 11 Sedona Conference Journal;

Myltseva V, 'The legal nature and principles of the predictive justice' (2019) 3 Recht der Osteuropäischen Staaten;

Myrna G, 'Juzgado sin papel, un paso más de la justicia electrónica' (2018) 12, 41 Revista Ius;

Najwyższa Izba Kontroli, 'Dokonywanie oceny wpływu w ramach rządowego procesu legislacyjnego.' (Najwyższa Izba Kontroli, 5 March 2018) <https://www.nik.gov.pl/plik/id,16190,vp,18712.pdf> accessed 5 February 2021;

Nakamoto S, 'Bitcoin: A Peer-to-Peer Electronic Cash System ' (31 October 2008) <https:// nakamotoinstitute.org/bitcoin/> accessed 1 December 2020;

Nardi Y, 'Cloud computing and the use of legal technology in the cloud' (Legal Insights Europe, 7 August 2020) <https://blogs.thomsonreuters.com/legal-uk/2020/08/07/cloud-computing-and-the-use-of-legal-technology-in-the-cloud/> accessed 17 March 2021;

Nastri N, '*Registri sussidiari, Blockchain: #Notaio oltre la lezione di Carnelutti*' (2017) 4 *Notariato;*

Navas S, 'LegalTech Services and the Digital Content and Digital Services Directive' <https://www.academia.edu/44791640/LegalTech_Services_and_the_Digital_Content_and_Digital_Services_Directive> accessed 12 January 2021;

Nemitz P, 'Constitutional democracy and technology in the age of artificial intelligence' (2018) 2133 Royal Society Publishing;

Neves Jr. P C, '*Judiciário 5.0'* (Blucher, 2020);

Newell A and Simon H A, *Human Problem Solving* (Prentice Hall 1972);

Ng A, 'What Artificial Intelligence Can and Can't Do Right Now' (Harvard Business Review, 9 November 2016) <www.hbr.org/2016/11/what-artificial-intelligence-can-and-cant-do-right-now> accessed 21 November 2020;

Nissan E, 'Digital technologies and artificial intelligence's present and foreseeable impact on lawyering, judging, policing and law enforcement' (2017) 32 AI & Society;

—, 'Digital technologies and artificial intelligence's present and foreseeable impact on lawyering, judging, policing and law enforcement' (2017) 32 AI & Society;

—, *Computer Applications for Handling Legal Evidence, Police Investigation and Case Argumentation* (Springer 2012);

Nofer M, Gomber P, Hinz O and Schiereck D, 'Blockchain' (2017) 59 Business & Information Systems Engineering <doi 10.1007/s12599-017-0467-3> accessed 15 March 2021;

Nutter P W, 'Machine learning evidence: admissibility and weight.' 21 (2018) U. Pa. J. Const. L.;

O'Gorman V, 'Cybercrime during the coronavirus pandemic: what does it mean for the legal industry?', <https://www.lexisnexis.co.uk/blog/in-house/cybercrime-during-the-coronavirus-pandemic-what-does-it-mean-for-the-legal-industry> accessed 25 2021;

OECD, 'Building Capacity for Evidence-Informed Policy-Making: Lessons from Country Experiences' (2020) OECD Public Governance Reviews <https://doi.org/10.1787/86331250-en> accessed 5 February 2021;

— Technology and innovation in the insurance sector (2017) <https://www.oecd.org/pensions/Technology-and-innovation-in-the-insurance-sector.pdf> accessed 27 January 2021;

Ojczyk J, 'LegalTech to nieunikniona przyszłość prawników', <https://www.prawo.pl/prawnicy-sady/legaltech-day-podsumowanie,503668.html> accessed 25 April 2021;

Omlor S, 'The CISG and libra: monetary revolution for international commercial transactions?' (2020) 3(1) Stanford Journal of Blockchain Law & Policy;

Omni Legal, 'Artificial Intelligence Won't Replace Lawyers—It Will Free Them' (Law Technology Today 27 February 2018);

Oñate S and Haissiner M, 'Tribunales digitales y jueces máquina' (2020) El mundo del abogado;

Opiła J, Pełech-Pilichowski T, 'Visual Analysis of Similarity and Relationships Between Legal Texts' (43rd International Convention on Information, Communication and Electronic Technology MIPRO, Opatija, 2020);

Opiłek P, 'Kryptowaluty jako przedmiot zabezpieczenia i poręczenia majątkowego' (2017) 6 Prokuratura i Prawo;

Oskamp A, Tragter M and Groendijk C, 'AI and Lain: What about the Future?' (1995) 3 Artificial Intelligence and Law;

O'Sullivan D, 'Hacked Celebrity Law Firm Says It Has Not Worked With Trump' (CNN, 17 May 2020) <https://edition.cnn.com/2020/05/17/politics/celebrity-law-firm-hacked-trump/index.html> accessed 17 August 2021;

Palazzo M, 'Informatica e diritto. Un dialogo necessario' in (2019) 5 Notariato;

Paliwala A (ed), *A history of legal informatics* (Series 9 LEFIS, Prensas de la Universidad de Zaragoza 2010);

Palmirani M, 'Legislative Change Management with Akoma-Ntoso' inGiovanni Sartor and others (eds) *Legislative XML for the Semantic Web. Principles, Models, Standards for Document* (Springer 2011);

Papageorgiou A, Mygiakis A, Loupos K and Krousarlis T, 'DPKI: A Blockchain-Based Decentralized Public Key Infrastructure System' (2020 Global Internet of Things Summit (GIoTS) Dublin, June 2020);

Parenti R, 'Regulatory Sandboxes and Innovation Hubs for FinTech' (European Parliament Think Tank, 30 September 2020) <https://www.europarl.europa.eu/RegData/etudes/STUD/2020/652752/IPOL_STU(2020)652752_EN.pdf> accessed 5 February 2021;

Park J, 'Your Honor, AI.' (Harvard International Review, 3 April 2020) <https://hir.harvard.edu/your-honor-ai/> accessed 5 February 2021;

Partyk A, 'Legitim 2.0., czyli o robocie przyszłości… rozstrzygającym spory zachowkowe' (2019) 2(25) Studia Prawnicze;

Paschke A, *Digitale Gerichtsöffentlichkeit* (Duncker & Humblot, 2018);

Pasquale F, 'A Rule of Persons, Not Machines: The Limits of Legal Automation' (2019) 87, 3 Geo. Wash. L. Rev.;

—, 'A Rule of Persons, Not Machines: The Limits of Legal Automation' (2019) 87, 1 Geo. Wash. L.aw Rev.;

661

Patrick G and Bana A, 'Report. Rule of Law Versus Rule of Code: A Blockchain-Driven Legal Word' (2017) International Bar Association Legal Policy & Research Unit 16;

Pavčnik M, 'Why Discuss Gaps in the Law?' (1996) 9/1 Ratio Juris;

Pecyna M, Behan A, 'Smart contracts — nowa technologia prawa umów? ' (2020) 3 Transformacje prawa prywatnego;

Peczenik A, *On Law and Reason* (Springer 2008);

Pereira D, 'How Watson helps lawyers find answers in legal research', (Medium 5 January 2017), <https://medium.com/@darylp/how-watson-helps-lawyers-find-answers-in-legal-research-672ea028dfb8> accessed 20 January 2021;

Perelman C, Olbrechts-Tyteca L, *The New Rhetoric. A Treatise on Argumentation* (University of Notre Dame Press 1971);

Perrot P, 'What about AI in criminal intelligence? From predictive policing to AI perspectives' (2017) 16 European Police Science and Research Bulletin;

Perry W L, McInnis B, . Price C C, Smith S C and Hollywood J S, 'Predictive Policing: The Role of Crime Forecasting in Law Enforcement Operations' (2013) National Institute of Justice, Safety and Justice Program, RAND Corporation research report series <https://www.rand.org/pubs/research_reports/RR233.html> accessed 8 February 2021;

Peterson A, 'NoCode And Lawyers' (NoCode Journal, 12 May 2020) <https://www.nocodejournal.com/posts/nocode-and-lawyers> access 17 March 2021;

Petzel J, *Informatyka prawnicza. Zagadnienia teorii i praktyki* (LIBER 1999);

Petzel J, *Systemy wyszukiwania informacji prawnej* (Wolters Kluwer 2017);

Philipps L and Sartor G, 'Introduction: from legal theories to neural networks and fuzzy reasoning' (1999) 7 Artificial Intelligence and Law;

Piètre-Cambacédès L and Chaudet C, 'The SEMA Referential Framework: Avoiding Ambiguities In The Terms "Security" And "Safety"' (2010) 3 International Journal of Critical Infrastructure Protection;

Polański P P, (C. H. Beck LegalTech Forum conference, Warszawa, 16-17 June 2021);

— Customary law of the Internet (1st edn, T.M.C. Asser Press 2007);

— 'Zwalczanie bezprawnych treści oraz zapewnienie dostępności cyfrowej z pomocą algorytmów sztucznej inteligencji', in: Luigi Lai and Marek Świerczyński (eds), *Prawo sztucznej inteligencji* (C. H. Beck 2020);

— (ed.), *Ustawa o dostępności cyfrowej. Komentarz* (1st edn, C.H.Beck 2021);

Pollock J L, 'Defeasible Reasoning' (1987) 11 Cognitive Science;

Poullet Y and Jacquemin H, 'Blockchain: une révolution pour e droit?' (2018) 6748 Journal des tribunaux;

Prabucki R, 'About Chinese Courts and Blockchain — A Simple Chain Foundation commentary' (Medium, 18 June 2020) <https://medium.com/@prabucki.rafael/chinese-justice-and-blockchain-what-can-we-learn-ed4285e1a34d> accessed 9 February 2021;

Prakken H, 'An abstract framework for argumentation with structured arguments' (2010) 1(2) Argument and Computation;

— 'Comparing Alternative Factor- and Precedent-Based Accounts of Precedential Constraint' in Michal Araszkiewicz and Víctor Rodríguez-Doncel (eds): *Legal Knowledge and Information Systems - JURIX 2019: The Thirty-second Annual Conference, Frontiers in Artificial Intelligence and Applications 322* (IOS Press 2019);

— Sartor G, 'Modelling Reasoning with Precedents in a Formal Dialogue Game' (1998) 6(2-4) Artificial Intelligence and Law;

Preukschat A, 'Understanding the European Self-Sovereign Identity Framework (ESSIF) – Daniël Du Seuil and Carlos Pastor – Webinar 32' <https://ssimeetup.org/understanding-european-self-sovereign-identity-framework-essif-daniel-du-seuil-carlos-pastor-webinar-32/> accessed 21 February 2021;

PRISM Litigation Technology, 'Predictive Coding: The Good, the Bad, and the Ugly' (Prism Blog, 7 August 2019) <https://prismlit.com/predictive-coding/> accessed 26 February 2021;

Protalinski E, `Google's speech recognition technology now has a 4.9% word error rate` <https://venturebeat.com/2017/05/17/googles-speech-recognition-technology-now-has-a-4-9-word-error-rate/> accessed 11 January 2021.

Pullan T, 'Experience: the Critical Commodity in Deal Negotiation + Star-Studded Careers' (Artificial Lawyer, 12 February 2021) <https://www.artificiallawyer.com/2021/02/12/experience-the-critical-commodity-in-deal-negotiation-star-studded-careers/> access 17 March 2021;

Pyrrho Investments Limited v MWB Property Limited [2016] EWHC 256 (Ch);

Raczyńska M, `Modele dojrzałości procesowej organizacji` (2017) XLIV 2 Acta Universitatis Nicolai Copernici. Zarządzanie, 61;

Ramos A, (coord.), 'Observatorio: Avances de Justicia Abierta en Línea en México 2020' (Escuela Libre de Derecho, 2020);

Raso F A, Hilligoss H, Krishnamurthy V and Bavitz C, 'Artificial Intelligence & Human Rights: Opportunities & Risks, Berkman Klein Center for Internet & Society, (Harvard University 2018)' <https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3259344> access 17 March 2021;

Rawhan I and Simari G R (eds), *Argumentation in Artificial Intelligence*, (Springer 2009);

Recommendation of the OECD Council on Artificial Intelligence, 'OECD/LEGAL/0449', <https://legalinstruments.oecd.org/en/instruments/OECD-LEGAL-0449> accessed 8 April 2021;

Redaktion beck-aktuell 'EDV-Gerichtstag sieht Fortentwicklung der Justiz-IT als wesentliche Zukunftsfrage' (beck-aktuell Heute im recht, 20 September 2019) <https://rsw.beck.de/aktuell/daily/meldung/detail/edv-gerichtstag-sieht-fortentwicklung-der-justiz-it-als-wesentliche-zukunftsfrage> accessed 26 February2020;

Regaldo A, 'Who Coined "Cloud Computing"?' (MIT Technology Review, 31 October 2011) <https://www.technologyreview.com/s/425970/who-coined-cloud-computing>/ accessed 9 March 2021;

Reidenberg J, 'Lex Informatica: The formulation of information policy rules through technology' (1998) 76 Texas Law Review;

Reiter R, 'A Logic for Default Reasoning' (1980) 13 Artificial Intelligence;

Remus D A, 'The Uncertain Promise of Predictive Coding' (2014) 99 Iowa Law Review;

Ren Y, Tan X, Qin T, Zhao S, Zhao Z and Liu T-Y, 'Almost Unsupervised Text to Speech and Automatic Speech Recognition' (Volume 97: International Conference on Machine Learning, Long Beach, 9-15 June 2019);

Richter M M and Weber R O, *Case-Based Reasoning. A Textbook* (Springer-Verlag 2013);

Rissland E L, Skalak D B, 'CABARET: Rule Interpretation in a Hybrid Architecture' (1991) 34(6) International Journal of Man-Machine Studies;

Rivera M A, 'An introduction to Amparo Theory' (2020) 12, 2 Krytyka Prawa;

— 'Las partes en el juicio de amparo' in Juan González and others (eds) *Teoría y Práctica del Juicio de Amparo*, (Flores Editor, 2018);

ROFIEG, '30 Recommendations on regulation, innovation and finance. Final Report to the European Commission' (13 December 2019) 27 ff <https://ec.europa.eu/info/sites/info/files/business_economy_euro/banking_and_finance/documents/191113-report-expert-group-regulatory-obstacles-financial-innovation_en.pdf> accessed 24 February 2021;

Roitblat H L, Kershaw A and, Oot P, 'Document categorization in legal electronic discovery: computer classification vs. manual review' (2010) 61 Journal of the American Society for Information Science and Technology;

Rojek-Socha P, 'Rusza elektroniczny sąd polubowny, skorzysta z profile zaufanego', (Prawo.pl, of 24 April 2019), <https://www.prawo.pl/prawnicy-sady/elektroniczny-sad-polubowny-ultima-ratio-rusza-przy,402433.html> accessed (11 March.03.2021);

Rościszewski A, 'Odpowiedzialność cywilna adwokatów' (2014) 10 Palestra;

Roslin R, 'Legal Technology and In-house Counsels Today' (Staranise, 1 June 2020) accessed 30 September 2020;

Ross O, Jensen J R and Asheim T, 'Assets under Tokenization' (2019) <https://ssrn.com/abstract=3488344> accessed 9 March 2021;

Roth N, 'An Architectural Assessment of Bitcoin: Using the Systems Modeling Language' (2015) 44 Procedia Computer Science;

Rott-Pietrzyk E, Szostek D, `A New Approach to the Legal Understanding of "Directness" and "Participation" in the Aftermath of COVID-19' in: Ewoud Hondius, Marta Santos Silva, Andrea Nicolussi, Pablo Salvador Coderch, Christiane Wendehorst, Fryderyk Zoll (eds) *Coronavirus and the Law in Europe* <https://www.intersentiaonline.com/publication/coronavirus-and-the-law-in-europe/658?version=v-2f6f01ec-324e-637b-c7ca-a6bc0e384e16> accessed 15 December 2020;

Rowley J, 'The wisdom hierarchy: representations of the DIKW hierarchy' (2007) 33(2) Journal of Information Science;

— 'The wisdom hierarchy: Representations of the DIKW hierarchy' (2007) Journal of Information Science <https://journals.sagepub.com/doi/10.1177/0165551506070706> accessed 11 January 2021;

Ruffini G, 'Il Processo Civile di fronte alla svolta telematica' in (2019) 4-5 Riv. dir. Proc;

Russell S and Norvig P, *Artificial Intelligence. A Modern Approach*, (3rd ed. Pearson 2016);

Russell S J, "Artificial Intelligence. A Binary Approach," in S. Matthew Liao (ed.), Ethics of Artificial Intelligence (Oxford University Press 2020);

Sajfert J and Quintel T, 'Data Protection Directive (EU) 2016/680 for Police and Criminal Justice Authorities' in Mark Cole and Franziska Boehm (eds) *GDPR Commentary* (Edward Elgar Publishing 2020) <https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3285873> accessed 8 February 2021;

Salen K and Zimmerman E, *Rules of play: game design fundamentals* (MIT Press 2003);

Salomão L F (ed), Tecnologia Aplicada à Gestão Dos Conflitos No Âmbito Do Poder Judiciário Brasileiro (FGV Conhecimento 2020) <https://ciapj.fgv.br/publicacoes> accessed 5 February 2021;

Salter S, 'Online dispute resolution and justice system integration: British Columbia's Civil Resolution Tribunal' (2017) 34 Windsor Yearbook of Access to Justice;

Samek W, Wiegand T and Müller K-R, 'Explainable Artificial Intelligence: Understanding, Visualizing and Interpreting Deep Learning Models' (2017) 1 ITU Journal: ICT Discoveries;

Samoili S and others, 'AI Watch. Defining Artificial Intelligence. Towards an operational definition and taxonomy of artificial intelligence, EUR 30117 EN, Publications Office of the European Union' (2020);

Samonas S and Coss D, 'The CIA Strikes Back: Redefining, Confidentiality, Integrity And Availability In Security' (2014) 10,3 Journal of Information System Security <http://www.proso.com/dl/Samonas.pdf> accessed 17 August 2021;

Sartor G, 'Doing justice to rights and values: teleological reasoning and proportionality' (2010) 18(2) Artificial Intelligence and Law;

— 'Legislative Information and the Web' in Giovanni Sartor and others, (eds) *Legislative XML for the Semantic Web. Principles, Models, Standards for Document* (Springer 2011);

— Casanovas P, Biasiotti M A and Fernández-Barrera M (eds) *Approaches to Legal Ontologies. Theories, Domains, Methodologies* (Springer 2011);

— *Legal Reasoning*, (Springer 2005);

— 'Legal concepts as inferential nodes and ontological categories' (2009) 17(3) Artificial Intelligence and Law;

Šavelka J, Westermann H and others, 'Lex Rosetta: Transfer of Predictive Models across Languages, Jurisdictions and Legal Domains' (ICAIL 2021: Proceedings of the Eighteenth International Conference on Artificial Intelligence and Law, São Paulo, 21-25 June 2021);

Bibliography

Sawicki J, 'Ubezpieczenie Business Interruption (BI) jako zabezpieczenie przyszłych dochodów przedsiębiorstwa' (2008) 7 Studia i Prace Wydziału Nauk Ekonomicznych i Zarządzania;

Scharf J, *Künstliche Intelligenz un Recht. Von den Wissensrepräsentation zur automatisierten Entscheidungsfindung* (Weblaw 2015);

Scherer M, 'Artificial Intelligence and Legal Decision-Making: The Wide Open?' (2019) 36 Journal of International Arbitration;

Schmidt A, `Technologie komunikacyjno-informatyczne w sądownictwie w Holandii – aktualna sytuacja` (2006) 16 Prawo mediów elektronicznych;

Schwartz J and Pelster B, 'Global Human Capital Trends 2014: Engaging the 21st-century workforce', <https://www2.deloitte.com/us/en/insights/focus/human-capital-trends/2014/hc-trends-2014-introduction.html/#endnote-sup-10> accessed 25 April 2021;

Schweighofer E, *Legal Knowledge Representation* (Kluwer Law International 1999);

Sergot M J, Sadri F, Kowalski R A, Kriwaczek F, Hammond P and Cory H T, 'The British Nationality Act as a logic program' (1986) 29 Communications of the ACM;

Shah R, 'Law Enforcement and Data Privacy - A Forward-Looking Approach' (2015) 125 Yale Law Journal;

Shcherbak S, 'Integrating Computer Science into Legal Discipline: The Rise of Legal Programming.' (14 September 2014) <https://ssrn.com/abstract=2496094> accessed 5 February 2021;

Shekhar S'Sarmah, Application of Blockchain in Cloud Computing' (2019) 8 12 International Journal of Innovative Technology and Exploring Engineering;

Sheppard B, 'Incomplete Innovation and the Premature Disruption of Legal Services' (2015) 1797 Michigan State Law Rev;

Singh B P and Tripathi A K, 'Blockchain Technology and Intellectual Property Rights' (2019) 24 Journal of Intellectual Property Rights;

Sirena P, *'I sistemi di ADR nel settore bancario e finanziario'* (2018) **9** *Nuova giur. civ. Comm*;

Siwek M, 'Prawa i obowiązki sędziego'(2006) 13 Studenckie Zeszyty Naukowe;

Size R, 'Taking advantage of advances in technology to enhance the rule of law' (2017) 91 Australian Law Journal;

Smetana D, 'The Future of Legal Technology: 3 Emerging Trends' (5 August 2020) <https://www.chalkline.tech/blog/future-of-legal-technology-3-trends> accessed 30 September 2020;

Smith JC, 'Machine Intelligence and Legal Reasoning' (1998), 73 Chi.-Kent L. Rev.;

Smoloń D, Sokoliński O and Szarek G, 'Polisa od sztucznej inteligencji', (2018) 10 Miesięcznik Ubezpieczeniowy;

Songkai X, Yurochkin M and,Sun Y, 'Auditing ML Models for Individual Bias and Unfairness' (2020) 108 (PMLR 108/2020) Proceedings of the Twenty Third International Conference on Artificial Intelligence and Statistic;

666

Sourdin T and Cornes R, 'Do Judges Need to Be Human? The Implications of Technology for Responsive Judging' in Tania Sourdin and Archie Zariski (eds) *The Responsive Judge* (Springer, 2018);

Sourdin T, 'Judge v. robot? Artificial Intelligence and judicial decision making'(2018) 4 UNSW Law Journal;

Sowiński R, Majrzak M, 'Programy do zarządzania kancelarią prawną. Jak wybrać i wdrożyć najlepszy program dla Twojej kancelarii?' <https://kirp.pl/raport-progra my-do-zarzadzania-kancelaria-prawna-juz-dostepny/> accessed 17 March 2021;

Special Counsel, 'What Predictive Coding Court Rulings Can Teach Us' blog.spe-cialcounsel.com (3 November 2016) <https://blog.specialcounsel.com/ediscovery /what-predictive-coding-court-rulings-can-teach-us> accessed 26 February 2021;

Speech by Commissioner for Digital Economy and Society Mariya Gabriel on blockchain applications, Brussels 3 April 2019 <https://ec.europa.eu/commission /presscorner/detail/en/SPEECH_19_1973> accessed 2 December 2020;

Spinosa P L, Giardiello G, Cherubini M, Marchi S, Venturi G, Montemagni S, 'NLP-based metadata extraction for legal text consolidation' (Proceedings of the 12th International Conference on Artificial Intelligence and Law, ACM, Barcelona 2009);

Srikanteswara R and others 'Data security using encryption on multi-cloud' (2018) 5, 6 International Research Journal of Engineering and Technology;

Srinivasan S, *Cloud Computing Basics* (Springer 2014);

State v. Loomis, 881 N.W. 2d 749, (Wisconsin 2016);

STF. First Panel. AI 564.765-RJ, DJ 17/3/2006;

Strutin K, 'Databases, E-Discovery and Criminal Law' (2008) 15 Rich. JL & Tech.;

Studnicki F, Łachwa A, Fall J and Stabrawa E, *Odesłania w tekstach prawnych. Ku metodom ich zautomatyzowanej interpretacji* (ZNUJ 1990);

Surden H, 'Machine Learning and Law' (2014) 89 Washington Law Review;

Susskind R, *Online Courts and the Future of Justice* (Oxford University Press 2019);

—, *Tomorrow's Lawyers. An Introduction to Your Future* (Oxford University Press 2nd edn, 2017);

—, 'The Latent Damage System: a jurisprudential analysis' (ICAIL '89: Proceedings of the 2nd International Conference on Artificial Intelligence and Lw, Vancouver 1989);

— and Susskind D, *The Future of the Professions* (Oxford University Press 2015);

— and Susskind D, *The Future of the Professions: How Technology Will Transform the Work of Human Experts* (Oxford University Press 2015);

Swan M, Blockchain - A Blueprint for a New Economy (O'Reilly 2015);

Szabo N, 'Smart Contracts', <https://www.fon.hum.uva.nl/rob/Courses/Informatio nInSpeech/CDROM/Literature/LOTwinterschool2006/szabo.best.vwh.net/smart .contracts.html> accessed 25 April 2021;

667

Szalai P,'Elektronikus kommunikáció a polgári perben' in Gergely G. Karácsony (ed) *Az elektronikus eljárások joga* (Gondolat, 2018) <http://real.mtak.hu/80535/1/e-elj%C3%A1r%C3%A1s-jog_Tank%C3%B6nyv_LO.pdf> accessed 1 March 2021;

Szewczuk A, 'Business interruption: ewolucja kompleksowego programu ubezpieczeniowego dla sektora małych i średnich przedsiębiorstw' (2010) 50 "Ekonomiczne Problemy Usług;

Szlak G, 'Online Dispute Resolution in Latin America: Challenges and Opportunities', in Mohamed Abdel Wahab and others (eds) *Online dispute resolution: Theory and Practice* (Eleven International Publishing, 2012);

Szmit M, 'Biegły informatyk w postępowaniu cywilnym' (2010) 121/1078 Zeszyty Naukowe Politechniki Łódzkiej;

Szmit M, 'O standardach informatyki śledczej' (2018) 355 Studia Ekonomiczne;

Szostek D (ed), Bezpieczeństwo danych i IT w kancelarii prawnej radcowskiej/adwokackiej/notarialnej/komorniczej. Czyli jak bezpiecznie przechowywać dane w kancelarii prawnej (Wydawnictwo C.H.Beck 2018);

— 'Consequences of applying new technologies to sources of law' in García G. Javier, Alzina L. Álvaro and Martín R. Gabriel (eds), *El derecho público y privado ante las nuevas tecnologías* (Dykinson 2020);

— 'IBAC (IoT, Blockchain, AI i Cyberbezpieczeństwo) – samoregulacja kodów czy kontrola uprzednia?' in Kinga. Flaga-Gieruszyńska, Jacek Gołaczyński and Dariusz Szostek (eds), *Sztuczna inteligencja, blockchain, cyberbezpieczeństwo oraz dane osobowe. Zagadnienia wybrane* (C. H. Beck 2019);

— 'Sztuczna inteligencja a kody. Czy rozwiązaniem dla uregulowania sztucznej inteligencji jest smart contract i blockchain?' in Luigi Lai and Marek Świerczyński (eds), *Prawo sztucznej inteligencji* (C.H.Beck 2020);

— Blockchain and the law (1st edn, Nomos 2019);

— in Dariusz Szostek (ed) *Legal tech. Czyli jak bezpiecznie korzystać z narzędzi informatycznych w organizacji, w tym w kancelarii oraz dziale prawnym* (C. H. Beck 2021);

Tanenbaum A S and Wetherall D J, *Computer Networks* (Prentice Hall 2011);

Tapscott D and Tapscott A, *Blockchain revolution. How The Technology Behind Bitcoin Is Changing Money, Business, And The World* (Penguin Random House 2016);

Thagard P, *Coherence in Thought and Action* (The MIT Press 2000);

Thakur V, Doja M N, Dwivedi Y K, Ahmad T, Khadanga G, 'Land records on Blockchain for implementation of Land Titling in India' (2020) 52 International Journal of Information Management;

The European Union Blockchain Observatory & Forum, EU Blockchain Ecosystem Developments, <https://www.eublockchainforum.eu/sites/default/files/reports/EU%20Blockchain%20Ecosystem%20Report_final_0.pdf> accessed 2 January 2021;

The Geneva Association, 'Ten key questions on Cyber Risk and Cyber Risk Insurance' <https://www.genevaassociation.org/sites/default/files/research-topics-document-type/pdf_public/cyber-risk-10_key_questions.pdf>;

The Legal Technologist, 'An interview with Mariana Hagström – From Managing Partner to Legaltech Founder' (The Legal Technologist 12 August 2020) <https://www.legaltechnologist.co.uk/an-interview-with-mariana-hagstrom-from-managing-partner-to-legaltech-founder/> access 17 March 2021;

The Service Innovation Lab (LabPlus), 'Better Rules for Government Discovery Report' (NZ Digital Government, March 2018) <https://www.digital.govt.nz/dmsdocument/95-better-rules-for-government-discovery-report/html#summary> accessed 31 January 2021;

Thomson Reuters Legal, 'How to make the e-discovery process more efficient with predictive coding?' <https://legal.thomsonreuters.com/en/insights/articles/how-predictive-coding-makes-e-discovery-more-efficient> accessed 26 February 2021;

Thordsen T, Murawski M and Bick M, `How to Measure Digitalization? A Critical Evaluation of Digital Maturity Models` in Marié *Hattingh*, Machdel *Matthee*, Hanlie *Smuts*, Ilias *Pappas*, Yogesh *K. Dwivedi*, Matti *Mäntymäki* (eds) *Responsible Design, Implementation and Use of Information and Communication Technology* (Springer 2020) <https://doi.org/10.1007/978-3-030-44999-5_30P> accessed 11 January 2021;

Thornhill J, 'Is AI finally closing in on human intelligence' (Financial Times, 12 November 2020) <https://www.<ft.com/content/512cef1d-233b-4dd8-96a4-0af07bb9ff60>, accessed 13 November 2020;

Tolan S, Miron M, Gómez E and Castillo C, 'Why Machine Learning May Lead to Unfairness: Evidence from Risk Assessment for Juvenile Justice in Catalonia' (Proceedings of the Seventeenth International Conference on Artificial Intelligence and Law (ICAIL '19), Montreal, 17 – 21 June 2019);

Tönnissen S, Beinke J H and Teuteberg F, 'Understanding Token-based Ecosystems – a Taxonomy of Blockchain-based Business Models of Start-ups' (2020), 30 Electron Markets <https://doi.org/10.1007/s12525-020-00396-6> accessed 8 February 2021;

Toulmin S, The Uses of Argument, Cambridge University Press 2003 (1st ed. 1958);

Trautman L J, 'Is Disruptive Blockchain Technology the Future of Financial Services?' (2016) 69 The Consumer Finance Law Quarterly Report <https://ssrn.com/abstract=2786186> accessed 15 March 2021;

Tresise A, Goldenfein J and Hunter D, 'What Blockchain Can and Can't Do for Copyright' (2018) 28 Australian Intellectual Property Journal 144 <https://ssrn.com/abstract=3227381> accessed 7 February 2021;

Tribunal de Contas da União, 'Apêndice 1 -Aplicações Blockchain No Setor Público Do Brasil', (TCU 2020) <https://portal.tcu.gov.br/levantamento-da-tecnologia-blockchain.htm> accessed 9 February 2021;

Tribunal de Contas da União, 'Levantamento Da Tecnologia Blockchain' (TCU 2020) <https://portal.tcu.gov.br/levantamento-da-tecnologia-blockchain.htm> accessed 9 February 2021;

Triumph Controls UK Ltd & anr v Primus International Holding Co & ors [2019] EWHC 565 (TCC);

Turner J, 'Managing Digital Discovery In Criminal Cases' (2019) 109 The Journal of Criminal Law and Criminology;

— *Robot Rules. Regulating Artificial Intelligence* (Springer 2019);

Uliasz M in *Jacek Gołaczyński* and *Dariusz Szostek* (eds) *Kodeks postępowania cywilnego. Komentarz do ustawy z 4.7.2019 r. o zmianie ustawy – Kodeks postępowania cywilnego oraz niektórych innych ustaw* (C. H. Beck 2019);

Ultima Ratio 'Sztuczna inteligencja w Ultima Ratio. Czy roboty zastąpią arbitrów?' (ultimaratio.pl) <https://ultimaratio.pl/sztuczna-inteligencja-w-ultima-ratio-czy-r oboty-zastapia-arbitrow> accessed 12 March 2021;

Uzsoki D, 'Tokenization of Infrastructure: A blockchain-based solution to financing sustainable infrastructure, (International Institute for Sustainable Development 2019) <doi:10.2307/resrep22004.3> accessed: 9 March 2021;

Valles G, 'Financiamiento Público de los Partidos Políticos en México: tópicos controversiales y propuesta de alternativa tecnológica para su fiscalización', (2018) 27, 2 Díkaion;

Van de Ven S, Hoekstra R, Winkels R, De Maat E and Kollár A 'MetaVex: Regulation Drafting meets the Semantic Web' in Pompeu Casanovas and others (eds) *Computable Models of the Law* (Springer 2008);

van der Meulen R, '5 Legal Technology Trends Changing In-House Legal Departments' (Gartner, 9 February 2021) <www.gartner.com/smarterwithgartner/5 -legal-technology-trends-changing-in-house-legal-departments/> accessed 24 February 2021;

van der Put M, 'Kan artificiële intelligentie de rechtspraak betoveren' (2019) 2 Rechtstreeks;

van Kralingen R, *Frame-based Conceptual Models of Statute Law* (Kluwer Law International 1995);

Verheij B, 'Artificial Argument Assistants for Defeasible Argumentation', (2003) 150 (1-2) Artificial Intelligence;

Verheij B, 'Artificial intelligence as law. Presidential address to the seventeenth international conference on artificial intelligence and law' (2020) 28 Artificial Intelligence and Law;

— 'DefLog: on the Logical Interpretation of Prima Facie Justified Assumptions', (2003) 13(3) Journal of Logic and Computation;

Verifiable Credentials Data Model 1.0. Expressing verifiable information on the Web' (W3C, 19 November 2019) <https://www.w3.org/TR/vc-data-model/> accessed 21 February 2021;

Vigliotti M G, Jones H, The Executive Guide to Blockchian (Palgrave Macmillan 2020);

Villaronga E F, Kieseberg P and Li T, 'Humans forget, machines remember: Artificial intelligence and the Right to Be Forgotten' (2018) 34, 2 Computer Law & Security Review;

Virtual Financial Assets Act (VFA) <https://legislation.mt/eli/cap/590/eng/pdf> access 2 February 2021;

Vitali F, 'A Standard-Based Approach for the Management for Legislative Documents' in Giovanni Sartor and others, (eds) *Legislative XML for the Semantic Web. Principles, Models, Standards for Document* (Springer 2011);

Von der Leyen U, Mission letter of President-elect Von der Leyen to Vice-President Dombrovskis (10 September 2019) <https://multimedia.europarl.europa.eu/do cuments/20143/0/mission-letter-valdis-dombrovskis-2019_en+%281%29.pdf/ d3645133-8c2e-7fdd-4367-77059b892232?t=1569412036000&download=true> accessed 15 March 2021;

Vorhies W, 'An Argument in Favor of Centaur AI' <www.datasciencecentral.com/p rofiles/blogs/an-argument-in-favor-of-centaur-ai>, accessed: 15 January 2021;

Waddington M, 'Machine-consumable legislation: A legislative drafter's perspective – human v artificial intelligence' (2019) 2 The Loophole - Journal of Commonwealth Assoc of Legislative Counsel;

Wagner J, *Legal Tech und Legal Robots. Der Wandel im Rechtswesen durch neue Technologien und Künstliche Intelligenz* (Springer 2020);

— *Legaltech und Legal Robots. Der Wandel im Rechtswesen durch neue Technologien und Kunstliche Intelligenz*, (Springer 2020);

Walton D, *Argumentation Methods for Artificial Intelligence in Law* (Springer 2005);

—, Reed C and Macagno F, *Argumentation Schemes* (Cambridge University Press 2008);

—, Sartor G and Macagno F, *Statutory Interpretation: Pragmatics and argumentation* (Cambridge University Press 2020);

Wang Q, Li R, Zhan L, ' ‚Blockchain technology in the energy sector: From basic research to real world applications' (2021) 39 Computer Science Review;

Waszczuk P, 'Trend Micro: W jaki sposób zapewnić bezpieczeństwo infrastruktury IT w modelu multicloud?' <https://www.itwiz.pl/trend-micro-jaki-sposob-zape wnic-bezpieczenstwo-infrastruktury-modelu-multicloud/> access 8 December 2020;

Waterman D A and Peterson M A, '*Models of Legal Decision Making: Research Design and Methods*' (Rand Corporation, The Institute for Civil Justice 1981);

Weather M, 'Predictive coding: the current landscape' disputeresolutionblog.pract icallaw.com/ (Thomson Reuters 21 July 2016) <http://disputeresolutionblog.pr acticallaw.com/predictive-coding-the-current-landscape/> accessed 26 February 2021;

Weinberger D, `*The problem with the data-information-knowledge-wisdom hierarchy*` (2010) Harvard Business Review <https://hbr.org/2010/02/data-is-to-info-as-info-i s-not> accessed 11 January 2021;

Weinstein J, Abrams N, Brewer S and Medwed D, *Evidence* (Foundation Press 2017);

Wen T, `How coronavirus has transformed the way we communicate` (BBC, 9 April 2020) <https://www.bbc.com/worklife/article/20200408-coronavirus-how-l ockdown-helps-those-who-fear-the-phone> accessed 15 December 2020;

Weng Wong M, 'Rules as code – Seven levels of digitisation.' (Research Collection School Of Law, April 2020) <https://ink.library.smu.edu.sg/sol_research/3093/> accessed 17 April 2021;

Werbach K, 'Trust, But Verify: Why the Blockchain Needs the Law' (2019) 33/2 Berkeley Technology Law Journal;

Werbach K, *The Blockchain and the new architecture of trust* (MIT Press 2018);

Wiewiórowski W R and Wierczyński G, *Informatyka prawnicza* (4th edn, Wolters Kluver 2006);

Wilkens R, Falk R, Smart Contracts, Grundlagen, Anwedungsfelder und rechtliche Aspekte (Springer 2019);

—, Falk R, Smart Contracts, Grundlagen, Anwedungsfelder und rechtliche Aspekte (Springer 2019);

Witkowska-Nowakowska K in Edyta Bielak-Jomaa and Dominik Lubasz (eds), *RODO. Ogólne rozporządzenie o ochronie danych. Komentarz* (Wolters Kluwer 2018);

Włodarczyk D, 'Bezpieczny przedsiębiorca', (2018) 6 Miesięcznik Ubezpieczeniowy;

Wódczak M and others, 'Standardizing a Reference Model and Autonomic Network Architectures for the Self-Managing Future Internet' (2011) 25(6) IEEE Network;

Wódczak M, *Autonomic Computing Enabled Cooperative Networked Design* (Springer 2014);

Wódczak M, *Autonomic Cooperative Networking* (Springer 2012);

Wódczak M, *Autonomic Intelligence Evolved Cooperative Networking* (Wiley 2018);

Wood G, 'Ethereum: A secure decentralised generalised transaction ledger' GAVWOOD.COM < https://gavwood.com/paper.pdf > accessed 11 December 2020;

Woodrow B and Ugo P, *Advanced Introduction to Law and Artificial Intelligence* (Edward Elgar Publishing 2020);

World Economic Forum, 'Bridging the Governance Gap: Dispute resolution for blockchain-based transactions' (White Paper, December 2020) access 16 March 2021;

Wright A and De Filippi P, 'Decentralized blockchain technology and the rise of Lex Cryptographia' (2015) <https://ssrn.com/abstract=2580664> accessed 11 December 2020;

Wróblewski M, 'Gdzie zaczęła się LegalTechowa rewolucja?', <https://blockchainext.io/gdzie-zaczela-sie-legaltechowa-rewolucja-wywiad/> accessed 25 April 2021;

Wyner A, 'An ontology in OWL for legal case-based reasoning' (2008) 16 , Artificial Intelligence and Law;

Xu A L, 'Chinese Judicial Justice on the Cloud: A Future Call or a Pandora's Box? An Analysis of the 'Intelligent Court System' of China'(2017) 1 Information & Communications Technology Law;

Yankovskiy R M, 'Legal Design: New Challenges and New Opportunities' (2019), 5 Zakon;

Yano M, Dai Ch, Masuda K, Kishimoto Y, 'Creation of Blockchain and a New Ecosystem' in Makoto —— Chris Dai, Kenichi Masuda, Yoshio Kishimoto (eds) *Blockchain and Crypto Currency* (Springer 2019);

Yeung K, 'A study of the implications of advanced digital technologies (including AI systems) for the concept of responsibility within a human rights framework' <https://rm.coe.int/a-study-of-the-implications-of-advanced-digital-technologies-including/168096bdab> access 17 March 2021;

Yu D and Li D, *Automatic Speech Recognition* (Springer London Limited 2016);

Yu M, 'Filing Lawsuits While Living Abroad: China's New Policy' (China Justice Observer, 7 March 2021) <https://www.chinajusticeobserver.com/a/filing-lawsuits-while-living-abroad-china-s-new-policy> accessed 12 March 2021;

Zaccaria G, 'Figure del giudicare: calcolabilità, precedenti, decisione robotica' in *Rivista di diritto ir. civile.*, (Cedam, 2020).

Żaczkiewicz-Zborska K, 'Kancelaria w chmurze obliczeniowej naraża na szwank tajemnicę zawodową' https://<www.prawo.pl/prawnicy-sady/kancelaria-w-chmurze-obliczeniowej-naraza-na-szwank-tajemnice,175923.html> accessed 9 March 2021;

Zakrzewski P, 'Sztuczna inteligencja rozsadza ramy, w których funkcjonowaliśmy do tej pory – interview with A. Przegalińska' <culture.pl/pl/artykul/aleksandra-przegalinska-sztuczna-inteligencja-rozsadza-ramy-w-ktorych-funkcjonowalismy-do-tej-pory-wywiad> accessed 14 March 2021;

Zalesińska A, `Electronic Court` in Jacek Gołaczyński, Wolfgang Kilian and Tomasz Scheffler (eds) *Legal Innovation in Polish Law* (C. H. Beck 2019);

— 'Electronic Court Report in Proceedings Before Common Courts in Poland' in: *Jacek Gołaczyński, Wolfgang Kilian* and *Tomasz Scheffler* (eds) *Legal Innovation in Polish Law* (C. H. Beck 2019);

Zalewski T, 'Definicja sztucznej inteligencji' in Luigi Lai and Marek Świerczyński (eds), *Prawo sztucznej inteligencji* (C.H.Beck 2020);

— 'LEGALTECH – wyzwanie przyszłości', (2019) 3 Temidium;

Załucki M, 'Computers in gowns and wigs. Some remarks about a new era of judiciary' in Laura Miraut Martin and Mariusz Załucki (eds) *AI and human Rights*, (in print 2021).

— 'Wykorzystanie sztucznej inteligencji do rozstrzygania spraw spadkowych' in Luigi Lai and Marek Świerczyński (eds) *Prawo sztucznej inteligencji* (C. H. Beck, 2020);

— in Dariusz Szostek (ed) Legal tech. Czyli jak bezpiecznie korzystać z narzędzi informatycznych w organizacji, w tym w kancelarii oraz dziale prawnym (C. H. Beck 2021);

Zamil A M, 'Customer Relationship Management: A Strategy to Sustain the Organization's Name and Products in the Customers' Minds' (2011) 3 European Journal of Social Sciences;

Zanfir-Fortuna G, 'Commentary to Article 82' in Christopher Kuner, Lee A. Bygrave, Christopher Docksey (eds) The EU General Data Protection Regulation (GDPR). A Commentary (OUP 2020);

Bibliography

Završnik A, 'Algorithmic justice: Algorithms and big data in criminal justice settings' (2019) 11 European Journal of Criminology;

Zębala J, 'Wybrane problemy ubezpieczeń cyber risk' (2018) 6 Monitor Ubezpieczeniowy;

Zeleznikow J, 'Using Artificial Intelligence to provide Intelligent Dispute Resolution Support' (2021) 30 Group Decision and Negotiation;

Zhong H, Guo Z, Tu C, Xiao C, Liu Z and Sun M, 'Legal Judgment Prediction via Topological Learning' (Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing, Brussels 2018);

Zhong H, Xiao C, Tu C and others, 'How Does NLP Benefit Legal System: A Summary of Legal Artificial Intelligence' (Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, on-line, July 2020) 5218-5230 <www.aclweb.org/anthology/2020.acl-main.466.pdf> accessed 1 July 2020;

Zhong H, Xiao C, Tu C, Zhang T, Liu Z and Sun M, 'How Does NLP Benefit Legal System: A Summary of Legal Artificial Intelligence', (2020) arXiv:2004.12158 arXiv.org;

Zhu H, '"Zhejiang Experience": Problems and Countermeasures in the Construction of Internet Courts' (Atlantis Press, September 2019) <https://www.atlantis-press.com/proceedings/jahp-19/125917489> accessed 21 August 2021;

Zieliński M, *Wykładnia prawa. Zasady – reguły – wskazówki* (7 ed., Wolters Kluwer 2017);

Zimmerman E, 'Jerked Around by the Magic Circle - Clearing the Air Ten Years Later' (Gamasutra, 7 February 2012) <https://www.gamasutra.com/view/feature/135063/jerked_around_by_the_magic_circle_.php> accessed 17 January 2021;

Zimmermann Ch, 'Legal Tech – Vielfalt der Anwendungen und richtige Haftungsvorsorge'<https://anwaltsblatt.anwaltverein.de/files/anwaltsblatt.de/anwaltsblatt-online/2019-815.pdf> accessed 25th April 2021;

Zins C, 'Conceptual approaches for defining data, information, and knowledge' (2007) 58(4) Journal of the American Society for Information Science and Technology, 479 <https://doi.org/10.1002/asi.20508> accessed 11 January 2021;

Żok K, 'Kwalifikacja umowy o korzystanie z programu komputerowego jako usługi (Software as a Service, SaaS) – uwagi na tle prawa polskiego i wybranych zagranicznych systemów prawnych' (2015) 3 Zeszyty Naukowe Uniwersytetu Jagiellońskiego;

— 'Prawna i ekonomiczna analiza umowy o korzystanie z programu komputerowego jako usługi (Software as a Service, SaaS)' (2017) 4 Zeszyty Naukowe Uniwersytetu Jagiellońskiego;

Zsolt Z, 'Law and Legal Science in the Age of Big Data' (2017) 3 Intersections. EEJSP;

Zuckerman M J, Swedish government land registry soon to conduct first blockchain property transaction <https://cointelegraph.com/news/swedish-government-land-registry-soon-to-conduct-first-blockchain-property-transaction> accessed 27 January 2021;

Żurek T, Araszkiewicz M, 'Modeling teleological interpretation' in Enrico Francesconi and Bart Verheij (eds) *International Conference on Artificial Intelligence and Law*, *ICAIL '13* (ACM 2013);