

# Trustworthy AI and AI regulations

Module no. or code	7
Module name	Trustworthy AI and AI regulations
(If applicable) the module's courses	
Module content	<ol style="list-style-type: none"> <li>1. Part Law <ol style="list-style-type: none"> <li>1.1. AI and fundamental rights</li> <li>1.2. AI and contract law, in particular regarding the attribution of declaration of intent and legal action (e.g. by the vicarious agent or proxy) or by creating a legal capacity of autonomous systems</li> <li>1.3. Civil liability of autonomous systems</li> <li>1.4. AI and data protection</li> <li>1.5. AI and intellectual property</li> <li>1.6. AI and labour law</li> <li>1.7. AI and criminal liability and prosecution</li> </ol> </li> <li>2. Part Ethics <ol style="list-style-type: none"> <li>2.1. What is ethics?</li> <li>2.2. Fairness and trust in AI systems</li> <li>2.3. Responsibility and liability for AI systems</li> <li>2.4. Risks of AI for companies</li> <li>2.5. Human Enhancement</li> <li>2.6. Autonomous vehicles</li> <li>2.7. Military applications of AI</li> </ol> </li> </ol>
Module's learning outcomes	<p>On successful completion of this module, the learner should be able to:</p> <ul style="list-style-type: none"> <li>- Apply principles of copyright und data protection law</li> <li>- Discuss the ability of the known tools to deal with technical challenges like AI, global data flow.</li> <li>- Name and partly apply principles of regulations in the fields of constitutional law, private law and criminal law</li> <li>- Outline the role of the selected principles in the context of AI</li> <li>- Evaluate the attempts of regulating AI within the EU to close legal gaps</li> <li>- Explain different ethical schools of thought and distinguish their lines of argumentation</li> <li>- Assess the challenges associated with technical innovations against the background of moral values</li> <li>- Evaluate selected applications and dilemmas and argue stringently</li> </ul>

Semester	2 <sup>nd</sup> semester		
Duration of module	One semester		
Frequency	Winter term only		
ECTS-Credits	5		
Workload	Workload (Total)	Attendance time	Self-Study time (incl. exam preparation)
	150	60	90
Type of module	Compulsory		
Applicability of module	-		
Conditions for participation	-		
Responsible for module	Prof. Dr. Ehret		
Lecturer	Prof. Dr. Ehret; Prof Dr. Kraus		
Language of instruction, L. of examination	English		
Type of examination; Conditions for the award of CPs	sP (= written examination) according to § 23 APO		
Teaching and learning formats of the module	SU (=seminar-like lecture)		

Literature

- Bartneck, Christoph, Christoph Lütge, Alan R. Wagner, und Sean Welsh. Ethik in KI und Robotik. München: Hanser, 2019.
- Coeckelbergh, Mark. AI ethics. The MIT press essential knowledge series. Cambridge, MA: The MIT Press, 2020.
- Darwall, Stephen L. Philosophical ethics. Dimensions of philosophy series. Boulder, Colo: Westview Press, 1998.
- European Commission High-level expert group on artificial intelligence, Hrsg. „Ethics guidelines for trustworthy AI“, 8. April 2019. <https://digital-strategy.ec.europa.eu/en/library/ethics-guidelines-trustworthy-ai>.
- Loh, Janina. Roboterethik: eine Einführung. Erste Auflage, Originalausgabe. suhrkamp taschenbuch wissenschaft 2277. Berlin: Suhrkamp, 2019.
- Lütge, Christoph, Hrsg. Handbook of the philosophical foundations of business ethics. Springer reference. Dordrecht ; New York: Springer, 2013.
- Simanowski, Roberto. Todesalgorithmus: das Dilemma der künstlichen Intelligenz. Deutsche Erstausgabe, 2., Durchgesehene Auflage. Passagen Thema. Wien: Passagen Verlag, 2021.
- Sparrow, Robert. „Robots and Respect: Assessing the Case Against Autonomous Weapon Systems“. Ethics & International Affairs 30, Nr. 1 (2016): 93–116. <https://doi.org/10.1017/S0892679415000647>.
- Taddeo, Mariarosaria, David McNeish, Alexander Blanchard, und Elizabeth Edgar. „Ethical Principles for Artificial Intelligence in National Defence“. Philosophy & Technology, 13. Oktober 2021. <https://doi.org/10.1007/s13347-021-00482-3>.
- Wallach, Wendell, und Colin Allen. Moral Machines: Teaching Robots Right from Wrong. First issued as an Oxford University Press paperback. New York, NY: Oxford University Press, 2010.