FEAA
FACULTATEA DE ECONOMIE
ŞI ADMINISTRAREA AFACERILOR
UNIVERSITATEA "AL. I. CUZA" IAŞI

TUTORIAL COURSE FORM – 2019-2020 ACADEMIC YEAR

Name of the tutorial course (Erasmus/exchange students)	The Limits of Artificial Intelligence
Name of the professor	Tugui Alexandru
Email of the professor	altug@uaic.ro
Office of the professor	B505
Semester in which the tutorial course is available	I / II
No. of ECTS credits	6
Level of study	
Short description/Contents	Short history of AI AI's Challenges Fundamental limits of AI Limits of AI for the next technological revolution Challenges for economic field
Assessment	Literature Review: 30% Essay: 70%
Bibliography	1. Alles, M. (2018). Examining the role of the AIS research literature using the natural experiment of the 2018 JIS conference on cloud computing, *International Journal of Accounting Information Systems*, 31, 58-74, https://doi.org/10.1016/j.accinf.2018.09.001. 2. Cearley, D., & Burke, B. (2018). *Top 10 Strategic Technology Trends for 2019,* Gartner Report, (https://www.gartner.com/en/doc/3891569-top-10-strategic-technology-trends-for-2019) 3. Dekate, C., Brethenoux, C., Hare, J., Chandrasekaran, A., Govekar, M., & Ric, C. (2018). *Predicts 2019: Artificial Intelligence Core Technologies*, Gartner Report, (https://www.gartner.com/doc/3894131?ref=mrktg-srch) 4. Dreyfus, H. L. (1972). *What computers can't do. A critique of Artificial Reason,* Harper & Row, New York 5. Ecklund, E. H. & Scheitle, C. P. (2018). Religion vs. Science: What Religious People Really Think. New York, NY: Oxford University Press, 2018. 6. Feigenbaum, E. A., & McCorduck, P. (1983). *The Fifth Generation: Artificial Intelligence and Japan's Computer Challenge to the World*. Reading, Mass.: Addison-Wesley 7. Kurzweil, R. (2011). *The Singularity is Near: When Humans Transcend Biology*, Old Saybrook: Tantor Media Inc. 8. Loonam, J., Eaves, S., Kumar, V., & Parry, G. (2018). Towards digital transformation: Lessons learned from traditional organization. *Strategic Change*; 27:101–109. https://doi.org/10.1002/jsc.2185.

	9. Lungarella, M., Iida, F., Bongard, J. C., & Pfeifer R. (2007). AI in the 21st Century – With Historical Reflections, in Lungarella, M., Iida, F., Bongard, J. C., & Pfeifer R. (Eds). 50 Years of Artificial Intelligence. Essays Dedicated to the 50th Anniversary of Artificial Intelligence, Springer, pp. 1-8
	10. *Merriam-Webster's collegiate dictionary* (10th ed.). (1999). Springfield, MA: Merriam-Webster Incorporated.
	11. Molten, M. (2018). *Biology Will Be the Next Great Computing Platform*, Wired Science, 5.3.2018 https://www.wired.com/story/biology-will-be-the-next-great-computing-platform/
	12. Naisbitt, J., 1982. *Megatrends. Ten New Directions Transforming Our Lives*, Warner Books, Inc.
	13. Schwartz, J. T. (1986). *The Limits of Artificial Intelligence*, Technical Report #212, March 1986, New York University. *Encyclopedia of Artificial Intelligence*, 2 vols., John Wiley and Sons,
	14. Tapscott, D. (1996). *The digital economy: Promise and peril in the age of networked intelligence*, New York: McGraw Hill
	15. Tugui, A. (2004). Reflections on the Limits of Artificial Intelligence. *Ubiquity*, ACM, 2004(December). DOI: 10.1145/1040560.1041064
	16. Vinge, V. (1993), The coming technological singularity: how to survive in the post-human era, in: *NASA. Lewis Research Center, Vision 21: Interdisciplinary Science and Engineering in the Era of Cyberspace*, Chapter 1
	17. Winston, P. (1984). *Artificial Intelligence*, Adinson-Wesley Publishers
Observations	The structure is: - 2 lectures for the first 2(two) subject; - 2 debates for preparing the *Literature Review*; - 3 lectures for the next subjets; - 2 debates for preparing the *Essay*; - 2 meetings for evaluation.