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From AI in Robotics to AI in Finance: Examples and Discussion

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After many years of research in academia on AI and autonomous robots, for the last three years, I have been the head of AI research at J.P. Morgan. During all this time, I have looked at many challenges with an AI approach, addressing knowledge, representation of states, actions, behaviors, planning, multiagent interactions, learning. In this talk, I will share several interesting problems that we have encountered and solutions that we devised in AI in Robotics and AI in Finance. I will focus on examples and will discuss AI planning, execution, teamwork, and learning and their potential of great applicability and great impact in real domains.

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<h1>Bio</h1>

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<p>Manuela Veloso is the Head of J.P. Morgan AI Research and Herbert A. Simon University Professor in the School of Computer Science at Carnegie Mellon University (CMU), where she was previously assistant and associate professor, before being appointed head of the Machine Learning Department in 2016. She was the President of AAAI (2013-2014), and the co-founder, Trustee, and Past President of the RoboCup research initiative. Prof. Veloso is internationally recognized for her pioneering work on robot autonomy and multi-agent systems. She published extensively in both fields, and received multiple awards and honors, including being a Fellow of the four most prestigious associations in computer science and engineering (AAAI, AAAS, ACM, and IEEE). She is also the recipient of several best paper awards, the Einstein Chair of the Chinese Academy of Science, the ACM/SIGART Autonomous Agents Research Award, an NSF Career Award, and the Allen Newell Medal for Excellence in Research. She was Program Chair of the International Conference in Artificial Intelligence (IJCAI) in 2007 and the AAAI conference on AI in 2005.</p>

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