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AI for Intelligent Financial Services: Examples and Discussion

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ABSTRACT:

After more than 30 years in academia researching in the area of AI, as a student and as a faculty, I joined JPMorgan to create and head an AI research group. In this talk, I will present several concrete examples of the projects we are pursuing in engagement with the lines of business. I will focus on areas related to multiagent trading simulation, financial crime, safe data sharing, fairness, and explainability. I will conclude with a discussion of my current understanding of the transformational impact that AI can have in the future of financial services.

BIOGRAPHY:

Manuela M. Veloso is the firmwide Head of AI Research, which pursues fundamental research in areas of core relevance to financial services, including data mining and cryptography, machine learning, explainability, and human-AI interaction. The team partners with applied data analytics teams across the firm as well as with leading academic institutions globally. Professor Veloso is on leave from Carnegie Mellon University as the Herbert A. Simon University Professor in the School of Computer Science, and the past Head of the Machine Learning Department. With her students, she had led research in AI, with a focus on robotics and machine learning, having concretely researched and developed a variety of autonomous robots, including teams of soccer robots, and mobile service robots. Her robot soccer teams have been RoboCup world champions several times, and the CoBot mobile robots have autonomously navigated for more than 1,000km in university buildings. Professor Veloso is the Past President of AAAI, and the co-founder, Trustee, and Past President of RoboCup. Professor Veloso has been recognized with a multiple honors, including being a Fellow of the AAAI, AAAS, ACM, IEEE. She is 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.