Thu. Jun 6, 2019

Room A

[3A1-PS-3] Explain Yourself – A Semantic Stack for Artificial Intelligence

9:00 AM - 10:10 AM Room A (2F Main hall A)

[3A1-PS-3] Explain Yourself – A Semantic Stack for Artificial Intelligence

Randy Goebel¹ (1. Professor of Computing Science at the University of Alberta, Canada, and co-founder of the Alberta Machine Intelligence Institute (AMII)) 9:00 AM - 10:10 AM

Plenary session

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The room is connected with B and the lecture is broadcast to room C.

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[3A1-PS-3] Explain Yourself – A Semantic Stack for Artificial Intelligence Randy Goebel¹ (1. Professor of Computing Science at the University of Alberta, Canada, and co-founder of the Alberta Machine Intelligence Institute (AMII))

Artificial Intelligence is the pursuit of the science of intelligence. The journey includes everything from formal reasoning, high performance game playing, natural language understanding, and computer vision. Each Al experimental domain is littered along a spectrum of scientific explainability, all the way from high-performance but opaque predictive models, to multi-scale causal models. While the current Al pandemic is preoccupied with human intelligence and primitive unexplainable learning methods, the science of Al requires what all other science requires: accurate explainable causal models. The presentation introduces a sketch of a semantic stack model, which attempts to provide a framework for both scientific understanding and implementation of intelligent systems. A key idea is that intelligence should include an ability to model, predict, and explain application domains, which, for example, would transform purely performance-oriented systems into instructors as well.