



Artificial Intelligence, Scientifically Speaking

B.H. (Fred) Juang
Georgia Institute of Technology

When one of the best GO players in the world lost the game to a computer, many people gasped in awe while others smiled at the inevitability. The subject of artificial intelligence (AI) became the talk of the town with many media personalities attempting to decipher what it means to the humankind. Since its unofficial birth in 1956, nonetheless, AI has come in ebb and flow. It is thus important to see through the real recent progress in AI from a scientific standpoint. Specifically in this talk we look at AI, and the related topics in machine learning and data science, from a developmental perspective in hope to bring about a better understanding on what it is, what it can do, how it does it, and the remaining challenges. This enhanced scientific appreciation will enable us to make an objective assessment and prediction of the impact of artificial intelligence.