

Date & Time

22nd February 2019, Friday @ 3.15 pm

Venue

**Al-Farabi Seminar Room, Second Floor,
INSPEM**

Presenter

**Dr. Seyed Ali Ahmadian
Research Fellow**

**Laboratory of Computational Sciences and
Mathematical Physics, INSPEM**



Topic

A Brief Introduction to Artificial Intelligence

Abstract

Artificial intelligence (AI) is an area of computer science that emphasizes the creation of intelligent machines that work and react like humans. Some of the activities computers with artificial intelligence are designed for include: Speech recognition, Learning, Planning, Problem solving and Fuzzy sets. In this seminar, we shall briefly discuss the following subjects; Deep learning, Machine learning, Computer Programming and Fuzzy Settings theory. Deep Learning has enabled many practical applications of Machine Learning and by extension the overall field of AI. Deep Learning breaks down tasks in ways that makes all kinds of machine assists seem possible, even likely. Driverless cars, better preventive healthcare, even better movie recommendations, are all here today or on the horizon. AI is the present and the future. Machine Learning at its most basic is the practice of using algorithms to parse data, learn from it, and then make a determination or prediction about something in the world. So rather than hand-coding software routines with a specific set of instructions to accomplish a particular task, the machine is “trained” using large amounts of data and algorithms that give it the ability to learn how to perform the task. Fuzzy modeling helps us to deal with the phenomena including uncertain parameters and conditions. It gives us enough tools to model real-world system and approach us much closer to its behavior.