5th World Congress on

NANOSCIENCE

March 25, 2022 | Webinar

Advancements of Artificial Intelligence Using Deep Learning algorithms

Brunello Tirozzi
University of Rome, Italy

The Future Trends of Artificial Intelligence in Neural networks is developed by Deep Learning algorithms. This paper will show how they can be applied to two important projects. One is to show how it is possible to use Artificial Intelligence (AI) for developing Hi-Tech agriculture. The project consists in developing a hydroponic greenhouse that consumes the minimum of water for the plants using particular concentrations of foods and planning an optimal distribution of water and food in time. The other project is about controlled fusion a central question for developing green energy without using radioactivity materials. The recent results at Jet are encouraging because the high-temperature plasma for fusion has been obtained for a significant time. This is the condition for developing an energy plant. The result has been obtained using AI and a particular deep learning algorithm, reinforced algorithm.

Biography

Brunello Tirozzi is a professor in the Department of Physics, University of Rome. His research interests are Elementary Particle Physics, Statistical Mechanics, Dynamical Systems, Disordered Systems Renormalization Group, Neural Networks, Neurobiology, Asymptotic methods, fluid dynamics, typhoons, tsunami, Plasma Physics. He has published over 200 research papers and participated in various International Conferences..

brunellotirozzi@gmail.com