

Smart systems opportunities in an IoT age

Dr Ann Nowe
Vrije Universiteit Brussel, Belgium

In this talk we will walk through the history of Machine Learning. I will illustrate how the field has been influenced by disciplines such as biology, psychology and statistics. While lots of devices and applications are currently called smart already, the recent IoT realisations allow us to move towards real smart applications. I will discuss applications in a domestic and office context as well as smart grid applications which require coordination between the different actors. Unlike the general machine learning setting, which aim at learning as fast as possible, these approaches need a safe learning scenario in order not to bother the user and typically they also involve multiple criteria.

About lecturer:



Prof. Ann Nowé received a M.S. degree from Universiteit Gent, Belgium, in 1987, where she studied mathematics with a minor in computer science, and a Ph.D. degree from Vrije Universiteit Brussels (VUB), Belgium, in collaboration with Queen Mary and Westfield College, University of London, U.K., in 1994.

Currently she is a full professor at the VUB and co-head of the AI Lab VUB. Her field of expertise is machine learning with a strong focus on reinforcement learning in multi-agent systems. Applications include engineering domains such as telecommunication, smart grids and mechatronics, but also bioinformatics.

She participated in many national as well as international projects. She was actively involved in different tutorials and workshops at major conferences (AAMAS, ECML, ICML).

She was a board member of EurAI (the European Society for Artificial Intelligence) and has been the chairman of the BNVKI (BeNeLux association for Artificial Intelligence).