



Laboratorio di
Algorithmic
Intelligence

YES@IASI

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SMART

Smart Technologies for Biomedical and Environmental Applications
A joint DEWS@UNIVAQ – IASI@CNR Laboratory

SMART-SEMINARS@IASI

Giovedì 30 Luglio ore 15.00

An introduction to reinforcement learning: challenges and opportunities

Corrado Possieri

Reinforcement learning constitutes one of the most important paradigms for the design of optimal strategies on the basis of observations of the correspondence between actions and rewards. It differs from other machine learning paradigms since it does not need labelled input/output pairs. Instead the focus is on finding a balance between exploration (of uncharted territory) and exploitation (of current knowledge). This framework has been successfully applied to several challenging problems, such as robotic control and games.

The aim of this talk is to introduce the basic concepts of reinforcement learning highlighting the main challenges that have to be faced in order to make it effective as well as the opportunities to apply this framework in real world problems.



*“La mente è come un paracadute. Funziona solo se si apre”
A. Einstein*