**Virtual Initio Programming: Exercises with Machine Learning**

**AIM:** This exercise sheet provides additional exercises in implementing machine learning algorithms.

**Exercise 1:** Write a Machine Learning algorithm to get the virtual Initio to avoid obstacles. It should choose between the actions forward, right and left, and use the input from the two infra-red obstacle sensors and whether the distance sensor returns a value less than some value (such as 20) as its state.

**Exercise 2:** Write a Machine Learning algorithm to get the virtual Initio to follow a wall by keeping the wall always to one side of it.



University of Liverpool, 2020

This work is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-nc-sa/4.0/).