

CMP3103M/CMP9050M Autonomous Mobile Robotics, Assessment Item 1

Learning Outcome	Criterion	Pass	2:2	2:1	1st
[LO3] implement and empirically evaluate intelligent control strategies, by programming autonomous mobile robots to perform complex tasks in dynamic environments	Criterion 1: Group Robot Tasks (20%)	You and your group have accomplished at least 40% of the 4 mini-tasks as defined in the workshop documentation.	You and your group have accomplished at least 50% of the 4 mini-tasks as defined in the workshop documentation.	You and your group have accomplished at least 60% of the 4 mini-tasks as defined in the workshop documentation.	You and your group have accomplished at least 70% of the 4 mini-tasks as defined in the workshop documentation.
	Criterion 2: Individual Escape the Maze Task (in Simulation only, 50%), Implementation	A working software component with basic functionality. Fair program structure and some code comments. The working implementation is demonstrated, and the implemented behaviour moves the robot in a meaningful way.	A working software component with good functionality. Clear program structure and appropriate comments. The implementation is demonstrated successfully, making successful attempts to solve the task.	A good implementation with some extra functionality or originality. The program code is well structured and commented. Good demonstration of basic and additional features, making progress towards the goal with a very good performance.	An excellent implementation featuring original functionality and elements beyond the original specification. The program code is efficient, well-structured and commented. The solution is demonstrated very well, highlighting the additional functionalities, accomplishing the significant progress towards the goals with an excellent performance.
	Criterion 3: Individual Visual Search Task (in Simulation, 30%), Video	A basic video showing the performance of the implementation.	A good presentation in a video of the system design and performance, with reflections on its performance.	A very good video presentation of the system design and reflections on its performance, that should a detailed understanding of the problem and solution.	An excellent video presentation of the system design and reflections on its performance, including evidence of thorough testing and evaluation of the important system features with conclusions drawn from it.
Weighting	The criteria for this assessment are weighted as indicated.				