电子科技大学
格拉斯哥学院
Glasgow College, UESTC

Glasgow College UESTC Final Year Project

Project Title	Reinforcement Learning Policy-Search Algorithms for a Walking Robot			
Programme	**Electronics and Information Engineering， Communications Engineering**			
Source of topic	**Scientific research**	✓	**Industry**	
	Teaching		**Others**	

Project Type: Check the most appropriate boxes below

Engineering Design	✓	**Firmware Implementation**	✓
Theoretical Study		**Software Simulation**	
Case Study		**Hardware Prototyping**	

Subject Area: Check the most appropriate one box below

Communications		**Machine learning**	✓
Control		**Signal Processing**	
Embedded Processors/Systems		**Electronics**	
Image Processing		**Power**	

Supervisor	**Andre Rosendo**	**Email**	**arosendo@shanghaitech.edu.cn**
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Academic Title	**Assistant Professor**	**Office Location**	**201.D**
Supervisor's Webpage	**http://lima.sist.shanghaitech.edu.cn/**		
Project Description	Reinforcement Learning had been widely used in the last few years for problems, ranging from board games to simulations of robots. Although the learning process may require thousands of iterations, new algorithms combine Bayesian learning to find a successful policy to solve the problem. For robots, specifically, such algorithms can be used to enable them to adapt to damages/malfunctions just a few seconds after the problem occurred.		

Prerequisite Skills	Programming, statistics, linear algebra, etc.