Title: Covert Robotics: Developing Robots for Covert Missions

Speaker: Mohamed Marzouqi

Abstract:
Most of previous and current research works in the field of autonomous navigation systems concentrate on planning an optimal navigation path, where the aim is to minimize distance, time or power. In this research, we present a new, interesting problem in this field which we have called Covert Robotics. The aim of this research is to create mobile robots with the ability to achieve different types of task (missions) covertly, i.e. without being observed by sentries, possibly hostile, within the same environment. In a covert mission, being hidden (or unobservable) from others is the main concern to accomplish the assigned task successfully. The purpose of this research is to study and analyze the strategies, behaviors and techniques that can be used to achieve the required covertness in a mission.

About the speaker:
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