

# The Rise of Service Robotics: Navigation in Medical and Mobile Applications

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## PLENARY TALK

*Abstract* — Robotics is gradually becoming transformational, effecting various aspects of human life. One of the key enabling technologies that allowed service robots to leave the factory and automation application domain is localization. Spatial awareness provided by sensors, navigation and positioning systems made it possible to use robots in the dynamically changing human environment. This talk overviews the recent development that lead to flexible service robots all around us, and focuses on two particular domains, where Óbuda University has a strong history to build on, image-guided navigation for mobile application and for medical robots.