

Advance of robotics technology

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Abstract

Advance of robotics technology in recent years have enabled various useful roles for robots in our society. Among such roles, our study focuses on collaborative workplaces robots. There are already some security robots in their early use; yet, their autonomous recognition capability is still limited, requiring human monitoring and human intervention. We will consider that security robots should be equipped with better recognition capabilities, particularly about human behaviors, so that they can operate more independently from human supervision. There are various undesired, uncivil, or dangerous behaviors that are not frequent but important for a security robot to recognize.

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Biography

Shuaiby Mohamed received the B.S. degree in Mechanical Engineering from Assiut University, Egypt in 2005, M.Sc. degree in Mechatronics Engineering from Assiut University, Egypt in 2013, and Ph.D. degree in Robotics and Control Engineering from Toyohashi University of Technology (TUT), Japan in 2017. Between 2006 and 2013, Shuaiby Mohamed joined the Mechanical Engineering Department, Faculty of Engineering, Assiut University in Egypt as a researcher and assistant lecturer. In 2014, Dr. Shuaiby Mohamed joined the Systems Engineering Laboratory Group, Department of Mechanical Engineering at Toyohashi University of

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