

1. Record Nr.	UNINA9910346906703321
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Titolo	Human worker activity recognition in industrial environments
Pubbl/distr/stampa	KIT Scientific Publishing, 2011
ISBN	1000022235
Descrizione fisica	1 electronic resource (XII, 176 p. p.)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	In this work, an intelligent human-machine interface (HMI) for human worker activity recognition in industrial environments is presented. The interface consists of components for robust and accurate 3D position estimation in workspace environments, the recognition of task-related worker activities and human-computer interaction via gestures. All components of the presented HMI are flexible with respect to applications and can be transferred to other activity recognition problems, as well.