

1. Record Nr.	UNINA9910346889403321
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Titolo	Learning Dynamic Systems for Intention Recognition in Human-Robot-Cooperation
Pubbl/distr/stampa	KIT Scientific Publishing, 2013
ISBN	1000031356
Descrizione fisica	1 electronic resource (XIV, 210 p. p.)
Collana	Karlsruhe Series on Intelligent Sensor-Actuator-Systems / Karlsruher Institut für Technologie, Intelligent Sensor-Actuator-Systems Laboratory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This thesis is concerned with intention recognition for a humanoid robot and investigates how the challenges of uncertain and incomplete observations, a high degree of detail of the used models, and real-time inference may be addressed by modeling the human rationale as hybrid, dynamic Bayesian networks and performing inference with these models. The key focus lies on the automatic identification of the employed nonlinear stochastic dependencies and the situation-specific inference.