

# Human-Robot Collaboration: A Probabilistic Approach



This book is concerned with combining the perceptual abilities of mobile robots and human operators to execute tasks collaboratively. Systems which incorporate both human and robotic information sources have the potential to build complex world models, essential for both automated and human decision making. In this work, humans and robots are regarded as equal team members who interact and communicate on a peer-to-peer basis. Human-robot communication is addressed using probabilistic representations common in robotics. While communication can in general be bidirectional, this work focuses primarily on human-to-robot information flow. More specifically, the approach advocated in this book is to let robots fuse their sensor observations with observations obtained from human operators. Human-robot information fusion is experimentally demonstrated in two application domains: scalable information gathering, and collaborative decision making. The book is written for HRI researchers interested in a probabilistic, robot-centred perspective on human-robot collaboration.

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**Human-robot communication for collaborative decision - the ACFR** In order to accomplish this goal, a probabilistic approach for human leg Human-robot collaboration has significant potential to improve industrial tasks, In our approach, all information exchange between humans and Examples for humanrobot communication using probabilistic data types. **Enhancing safe human-robot collaboration through natural** Human-robot communication for collaborative decision making - A probabilistic approach. In Robotics and Autonomous Systems, vol. 5, no. 58, 2010, pp. 444 - **FEDERICO LORENZO MORO - Consiglio Nazionale delle Ricerche** thermore, the probabilistic approach is able to achieve such shared control (where the human operator is physically on the robot). Shared teleoperation has seen activity in a num- robotic wheelchair: Collaborative control for a robotic. **Human-robot collaboration by**

**intention recognition - IEEE Xplore** Human-robot communication for collaborative decision making - A probabilistic approach, 2010 Article. Bibliometrics Data Bibliometrics. **Human-Robot Collaboration: A Probabilistic Approach:** Human-robot communication for collaborative decision making - A probabilistic approach, 2010 Article. Bibliometrics Data Bibliometrics. **Probabilistic human action prediction and wait - IEEE Xplore** Human-robot collaboration by intention recognition using probabilistic state machines approach that can be applied to any human-robot cooperation situation. **Human-robot communication for collaborative decision making - A** More specifically, the approach advocated in this book is to let robots fuse their sensor observations with observations obtained from human operators. **Robot Programming by Demonstration - Google Books Result** behavior of the operator in such human-robot collaboration (HRC) scenarios is not exactly known a priori, probability, in which the human operator is harmed. **Human-Robot Shared Workspace Collaboration - Robotics Institute Human-Robot Collaboration: A Probabilistic Approach -** The human-robot collaboration scenarios are increasing. Human-robot probabilistic frame works and other approaches, e.g., Hidden. Markov Model (HMM) [5] **Intelligent Autonomous Systems 12: Volume 2 Proceedings of the - Google Books Result** Collaboration, dialogue and human-robot interaction. for collaborative decision making - A probabilistic approach, Robotics and Autonomous **Trends in Applied Intelligent Systems: 23rd International - Google Books Result** The proposed approach exploits the temporal coherence and dynamic to build a probabilistic model that enables the robot to both react to the user Consequently, if collaborative robots need to assist humans, they need to **Assistive Planning in Complex, Dynamic Environments - Brad Hayes** In the context of Human-Robot Interaction (HRI), Natural Language Understanding has interactions in a scenario of collaborative human-robot tasks, by mining past In [19], the authors present a probabilistic approach able to learn referring **Human-Robot Collaboration by Intention recognition - IEEE Xplore** This book is concerned with combining the perceptual abilities of mobile robots and human operators to execute tasks collaboratively. Systems which **Human modeling for humanrobot collaboration - Mental Models** need for robots that can integrate seamlessly into human group dynamics. In this paper benefits of this approach through large-scale human human-robot interactive planning method. probability matrix T the entropy rate is always well. **Human-Robot Collaboration: A Probabilistic Approach - Tobias** Human-robot collaboration by intention recognition using probabilistic state a novel approach for recognizing the human intention using weighted probabilistic c **A Probabilistic Approach to Concurrent Mapping and Localization** in 20th IEEE International Symposium in Robot and Human Interactive Communication for Collaborative Decision Making A probabilistic approach. **Dialogues with Social Robots: Enablements, Analyses, and Evaluation - Google Books Result** A novel representation for the human component of multi-step, human-robot collaborative and wait-sensitive planning for responsive human-robot collaboration We demonstrate the approach in assembly tasks where the robot must **Buy Human-Robot Collaboration: A Probabilistic Approach Book at** robot goal can be easily inferred by the human. All of these approaches rely on the hypothesis that, once the human goal is predicted with a certain probability,. **Advanced Agent Technology: AAMAS Workshops 2011, AMPLE, AOSE, - Google Books Result** This paper presents a semantic multimodal interaction approach between humans and industrial robots to enhance the dependability of the **Robots that Talk and Listen: Technology and Social Impact - Google Books Result** Bauer, A., Wollherr, D., Buss, M.: Human-robot collaboration: A survey. communication for collaborative decision making a probabilistic approach. Robotics : **Human-Robot Collaboration: A Probabilistic Approach** Served as Guest Editor of the International Journal of Humanoid Robotics work has also been extended to quadrupedal locomotion in collaboration with EPFL. A probabilistic approach to workspace sharing for human-robot cooperation in **Human-Robot Collaboration: A Probabilistic Approach -** Get extra 7% discount on Human-Robot Collaboration: A Probabilistic for Human-Robot Collaboration: A Probabilistic ApproachBook online at **Decision-theoretic human-robot communication - ACM Digital Library** Tobias Kaupp - Human-Robot Collaboration: A Probabilistic Approach jetzt kaufen. ISBN: 9783639123180, Fremdsprachige Bucher - Nachschlagewerke. **Human-robot collaboration by intention recognition - IEEE Xplore** In: Intl. Workshop on Robot and Human Interactive Comm. Burgard, W., Kruppa, H., Thrun, S.: A probabilistic approach to collaborative multi-robot localization. **Frontiers Learning Controllers for Reactive and Proactive** methodology for modeling humanrobot collaboration in their work. Finally, to achieve than simple probabilistic models, but their representation still does not **An Approach for Safe and Efficient Human-Robot Collaboration** BY DEMONSTRATION: A PROBABILISTIC APPROACH Sylvain Calinon Robot robots, i.e., robots deemed to work in direct collaboration with humans.

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