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Human-robot collaboration (HRC) is a research field with a wide range of applications, future scenarios, and potentially a high economic impact. HRC is an interdisciplinary research area comprising classical robotics, cognitive sciences, and psychology.

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humans. Human-robot collaboration (HRC) is a research field with a wide range of applications, future scenarios, and potentially a high economic impact. HRC is an interdisciplinary research area comprising classical robotics, cognitive sciences, and psychology. This article gives a survey of the state of the art of human-robot collaboration. Es-

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Human-robot collaboration (HRC) is a research field with a wide range of applications, future scenarios, and potentially a high economic impact. HRC is an interdisciplinary research area comprising classical robotics, cognitive sciences, and psychology. This article gives a survey of the state of the art of human-robot collaboration.

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A survey of robot learning from demonstrations for Human-Robot Collaboration Jangwon Lee School of Informatics and Computing Indiana University Bloomington, Indiana, USA Email: leejang@indiana.edu Abstract—Robot learning from demonstration (LfD) is a research paradigm that can play an important role in addressing the issue of scaling up ...

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human-robot collaboration, sensorimotor contingencies, human-human interaction, embodied intelligence, physical, interaction Abstract With the advances in robotic technology, research in human-robot collaboration (HRC) has gained in importance. For robots to interact with humans autonomously they need active decision making that takes human ...

Human-Robot Collaboration: From Psychology to Social Robotics

Human-Robot Interaction (HRI) has recently received considerable attention in the academic community, in labs, in technology companies, and through the media. Because of this attention, it is desirable to present a survey of HRI to serve as a tutorial to people outside the field and to promote discussion of a unified vision of HRI within the field.

Human-Robot Interaction: A Survey - perso.liris.cnrs.fr

spatial dialogue and thus enhance human-robot collaboration. First an overview of models of human-human collaboration and how they could be used to develop a model for human-robot collaboration is presented. Next, the current state of human-robot interaction is reviewed and how it fits into a model of human-robot collaboration is explored.

Human-Robot Collaboration: A Literature

robot. Additionally, to take full advantage of human skills, it is important that intuitive user interfaces are properly designed, so that human operators can easily program and interact with the robot. In this survey paper, an extensive review on human-robot collaboration in industrial environment is provided, with specific focus on

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This approach points the way toward more general models of human-robot collaboration building world models from both linguistic and non-linguistic input, following complex grounded natural language commands, and engaging in fluid, flexible collaboration with their human partners.

Human-Robot Collaboration - Microsoft Research

Human-Robot Collaboration in Manufacturing: Quantitative Evaluation of Predictable, Convergent Joint Action Stefanos Nikolaidis^{1*}, Przemyslaw Lasota¹, Gregory Rossano², Carlos Martinez², Thomas Fuhlbrigge² and Julie Shah¹ ¹Massachusetts Institute of Technology, USA ²ABB, USA
*email: snikol@mit.edu Abstract--New industrial robotic systems that operate

Human-Robot Collaboration in Manufacturing: Quantitative ...

Human-robot collaboration is a key factor for the development of factories of the future, a space in which humans and robots can work and carry out tasks together. Safety is one of the most critical aspects in this collaborative human-robot paradigm. This article describes the experiments done and results achieved by the authors in the context of the FourByThree project, aiming to measure ...

Human-robot collaboration in industrial applications ...

the art in human-robot collaboration. We proceed to focus on ... going research effort and is organized as a survey of challenges and proposed solutions within this shared workspace ... call element to the success of any human-robot team (Nikolaidis and Shah 2013). In our work, we represent tasks as di- ...

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