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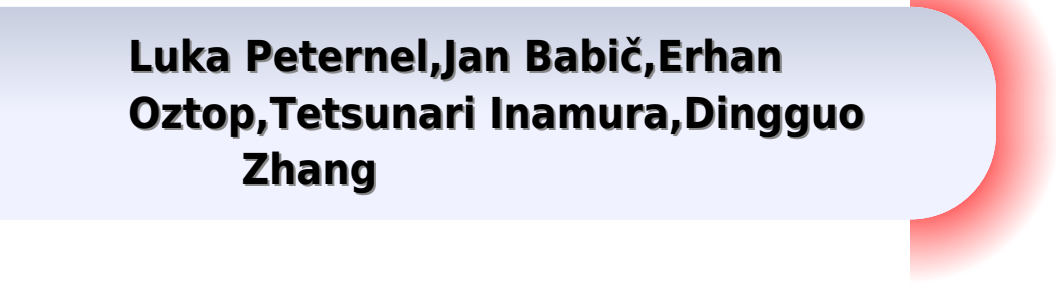
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Mathematics A Paper 4hr May 2014

**Luka Peternel, Jan Babič, Erhan
Oztop, Tetsunari Inamura, Dingguo
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Human-in-the-Loop Robot Control and Learning Luka Peternel,Jan Babič,Erhan Oztop,Tetsunari Inamura,Dingguo Zhang,2020-01-22 In the past years there has been considerable effort to move robots from industrial environments to our daily lives where they can collaborate and interact with humans to improve our life quality One of the key challenges in this direction is to make a suitable robot control system that can adapt to humans and interactively learn from humans to facilitate the efficient and safe co existence of the two The applications of such robotic systems include service robotics and physical human robot collaboration assistive and rehabilitation robotics semi autonomous cars etc To achieve the goal of integrating robotic systems into these applications several important research directions must be explored One such direction is the study of skill transfer where a human operator s skilled executions are used to obtain an autonomous controller Another important direction is shared control where a robotic controller and humans control the same body tool mechanism car etc Shared control in turn invokes very rich research questions such as co adaptation between the human and the robot where the two agents can benefit from each other s skills or must adapt to each other s behavior to achieve effective cooperative task executions The aim of this Research Topic is to help bridge the gap between the state of the art and above mentioned goals through novel multidisciplinary approaches in human in the loop robot control and learning

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port what more do you need you can combine a sensor with a pi zero for about 30 and program custom algorithms to your heart's content dave tweed apr 28 2020 at 23 16

interfacing 5mp spi camera with esp32 wifi module how - Mar 14 2023

web jul 26 2023 video tutorial guide overview this tutorial is about arducam mega camera as we will be interfacing this 5mp spi camera with esp32 wifi module recently arducam launched a legendary camera solution that helps you connect one or more cameras to any microcontroller without the least effort

cmos camera interface on a usb microcontroller - Mar 02 2022

web sep 7 2012 1 hi i would like to interface a cmos based camera to a usb device microcontroller i need to use the microcontroller for grabbing frames from the cmos camera and send it to a usb host controller eg a pc i have a cmos camera similar but from different vendor to the one mentioned in the following link