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Claudio Pacchierotti

Cutaneous Haptic Feedback in Robotic Teleoperation

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The Handbook of Multimodal-Multisensor Interfaces, Volume 3 Sharon Oviatt, Björn Schuller, Philip Cohen, Daniel Sonntag, Gerasimos Potamianos, Antonio Krüger, 2019-06-25 The Handbook of Multimodal Multisensor Interfaces provides the first authoritative resource on what has become the dominant paradigm for new computer interfaces user input involving new media speech multi touch hand and body gestures facial expressions writing embedded in multimodal multisensor interfaces This three volume handbook is written by international experts and pioneers in the field It provides a textbook reference and technology roadmap for professionals working in this and related areas This third volume focuses on state of the art multimodal language and dialogue processing including semantic integration of modalities The development of increasingly expressive embodied agents and robots has become an active test bed for coordinating multimodal dialogue input and output including processing of language and nonverbal communication In addition major application areas are featured for commercializing multimodal multisensor systems including automotive robotic manufacturing machine translation banking communications and others These systems rely heavily on software tools data resources and international standards to facilitate their development For insights into the future emerging multimodal multisensor technology trends are highlighted in medicine robotics interaction with smart spaces and similar areas Finally this volume discusses the societal impact of more widespread adoption of these systems such as privacy risks and how to mitigate them The handbook chapters provide a number of walk through examples of system design and processing information on practical resources for developing and evaluating new systems and terminology and tutorial support for mastering this emerging field In the final section of this volume experts exchange views on a timely and controversial challenge topic and how they believe multimodal multisensor interfaces need to be equipped to most effectively advance human performance during the next decade

Cutaneous Haptic Feedback in Robotic Teleoperation Claudio Pacchierotti, 2015-11-06 This work addresses the challenge of providing effective cutaneous haptic feedback in robotic teleoperation with the objective of achieving the highest degree of transparency whilst guaranteeing the stability of the considered systems On the one hand it evaluates teleoperation systems that provide only cutaneous cues to the operator thus guaranteeing the highest degree of safety This cutaneous only approach shows intermediate performance between no force feedback and full haptic feedback provided by a grounded haptic interface and it is best suitable for those scenarios where the safety of the system is paramount e g robotic surgery On the other hand in order to achieve a higher level of performance this work also investigates novel robotic teleoperation systems with force reflection able to provide mixed cutaneous and kinesthetic cues to the operator Cutaneous cues can compensate for the temporary reduction of kinesthetic feedback necessary to satisfy certain stability conditions This state of the art volume is oriented toward researchers educators and students who are interested in force feedback techniques for robotic teleoperation cutaneous device design cutaneous rendering methods and perception studies as well as

readers from different disciplines who are interested in applying cutaneous haptic technologies and methods to their field of interest

Human-Robot Body Experience Philipp Beckerle, 2021-06-02 This monograph presents innovative research regarding the body experience of human individuals who are using assistive robotic devices such as wearable robots or teleoperation systems The focus is set on human in the loop experiments that help to empirically evaluate how users experience devices Moreover these experiments allow for further examination of the underlying mechanisms of body experience through extending existing psychological paradigms e g by disentangling tactile feedback from contacts Besides reporting and discussing psychological examinations the influence of various aspects of engineering design is investigated e g different implementations of haptic interfaces or robot control As haptics are of paramount importance in this tight type of human robot interaction it is explored with respect to modality as well as temporal and spatial effects The first part of the book motivates the research topic and gives an in depth analysis of the experimental requirements The second and third part present experimental designs and studies of human robot body experience regarding the upper and lower limbs as well as cognitive models to predict them The fourth part discusses a multitude of design considerations and provides directions to guide future research on bidirectional human machine interfaces and non functional haptic feedback

Haptics For Teleoperated Surgical Robotic Systems Mahdi Tavakoli, Rajni V Patel, Mehrdad Moallen, Arash Aziminejad, 2008-04-14 An important obstacle in Minimally Invasive Surgery MIS is the significant degradation of haptic feedback sensation of touch to the surgeon about surgical instrument s interaction with tissue This monograph is concerned with devices and methods required for incorporating haptic feedback in master slave robotic MIS systems In terms of devices novel mechanisms are designed including a surgical end effector slave with full force sensing capabilities and a surgeon robot interface master with full force feedback capabilities Using the master slave system various haptic teleoperation control schemes are compared in terms of stability and performance and passivity based time delay compensation for haptic teleoperation over a long distance is investigated The monograph also compares haptic feedback with visual feedback and with substitution for haptic feedback by other sensory cues in terms of surgical task performance

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