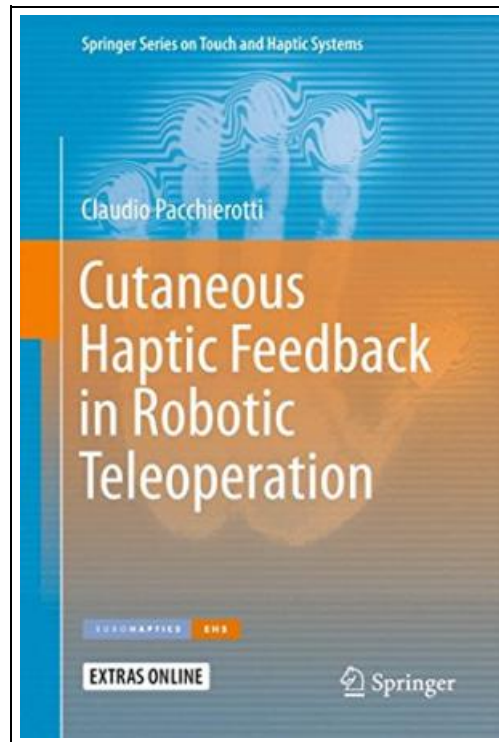


Cutaneous Haptic Feedback in Robotic Teleoperation



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Reviews

It is simple in read easier to understand. I am quite late in start reading this one, but better then never. Its been designed in an exceptionally easy way in fact it is just following i finished reading through this publication where basically transformed me, alter the way i really believe.




(Ms. Christy Ondricka DDS)

CUTANEOUS HAPTIC FEEDBACK IN ROBOTIC TELEOPERATION



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Springer-Verlag Gmbh Nov 2015, 2015. Buch. Condition: Neu. Neuware - 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. 142 pp. Eng lisch.

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