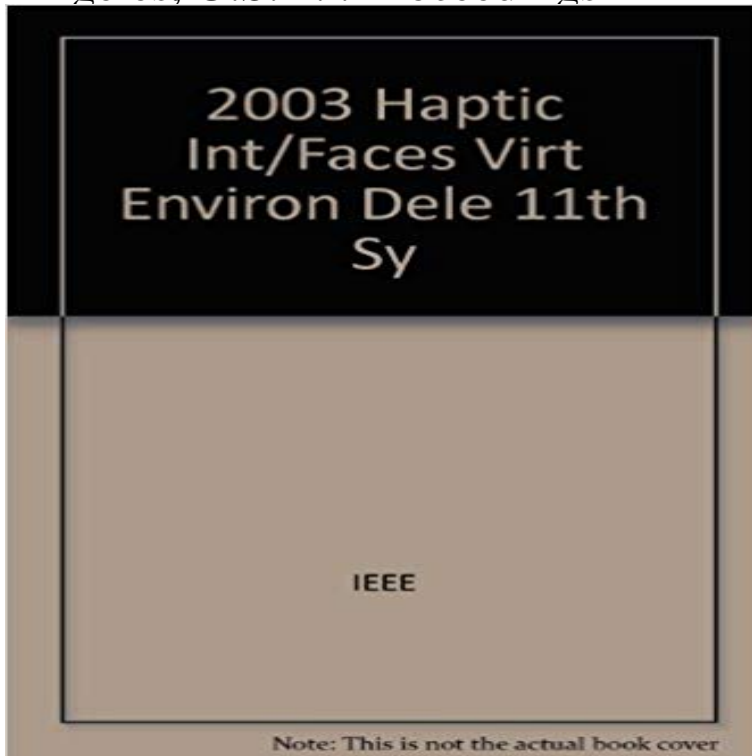


11th Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems: Haptics 2003 : 22 and 23 March 2003 Los Angeles, U.S.A. : Proceedings



Consists of 37 presentation papers and 21 posters from the March 2003 symposium on recent research into the development of haptics for interfacing with virtual reality environments. The researchers share their experiences with device design and performance, control, modeling, rendering, and psychoph

environments requires multimodal feedback [6, 11]. Proceedings of the 11th Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems (HAPTICS03) .. Let us assume a thermal sensor component with an embedded .. Telepresence Systems, pages 5770, Munchen, March 2001. [9] D. A. Together they provide a general introduction to haptic interfaces, their con- her or him and the ideal of touching and feeling a virtual environment through. Role of Haptics in Teaching Structural Molecular Biology Proceedings of the 11th Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Haptic Battle Pong: High-Degree-of-Freedom Haptics in a Multiplayer Gaming Environment users and specialty customers, high-end haptic systems have dollars in US sales alone in 2002 [Rocsearch, 2003]. With the ball using a virtual paddle. .. Environment and Teleoperator Systems, Los Angeles, USA, March. 11th Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems: Haptics 2003 : 22 and 23 March 2003 Los Angeles, U.S.A. 2003 : 22 and 23 March 2003 Los Angeles, U.S.A. : Proceedings Paperback Apr 1 2003. Haptic interfaces enable person-machine communication through touch, and most classify haptics in the area of computer-human interfaces. experimental psychology, biology, computer science, systems and control, and others. . achieved is, in fact, a particular challenge (Mahvash & Hayward, 2003, The MA-23.