Gesture-Based Human-Computer Interaction and Simulation

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Condition: New. Publisher/Verlag: Springer, Berlin | 7th International Gesture Workshop, GW 2007, Lisbon, Portugal, May 23-25, 2007, Revised Selected Papers | This book constitutes the thoroughly refereed post-proceedings of the 7th International Workshop on Gesture-Based Human-Computer Interaction and Simulation, GW 2007, held in Lisbon, Portugal, in May 2007. The 31 revised papers presented were carefully selected from 53 submissions. The papers are organized in topical sections on analysis and synthesis of gesture; theoretical aspects of gestural communication and interaction; vision-based gesture recognition; sign language processing; gesturing with tangible interfaces and in virtual and augmented reality; gesture for music and performing arts; gesture for therapy and rehabilitation; and gesture in Mobile computing and usability studies. | Analysis and Synthesis of Gesture.- Gesture Recognition Based on Elastic Deformation Energies.- Approximation of Curvature and Velocity for Gesture Segmentation and Synthesis.- Motion Primitives and Probabilistic Edit Distance for Action Recognition.- Theoretical Aspects of Gestural Communication and Interaction.- On the Parametrization of Clapping.- Improving the Believability of Virtual Characters Using Qualitative Gesture Analysis.- A Method for Selection of Optimal Hand Gesture Vocabularies.- Vision-Based Gesture Recognition.- Person-Independent 3D Sign Language Recognition.- Skin Color Profile Capture for Scale and Rotation Invariant Hand Gesture Recognition.- Robust Tracking for...

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