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Leap Motion ieee Paper

Leap Motion is a new gesture-capturing sensor hardware system that can take hand and finger gestures as input at a very high accuracy level compared to other devices such as Microsoft Kinect. Its capabilities give us a big range of applications that it can support. In Development of Serious Game for Kids using Leap Motion based on Honey Bee Dance

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In this paper, we propose a novel feature vector which is suitable for representing dynamic hand gestures, and presents a satisfactory solution to recognizing dynamic hand gestures with a Leap Motion controller (LMC) only. These have not been reported in other papers. The feature vector with depth information is computed and fed into the Hidden Conditional Neural Field (HCNF) classifier to recognize dynamic hand gestures.

Dynamic Hand Gesture Recognition With Leap Motion ...

Abstract: This paper presents an approach for monitoring exercises of hand rehabilitation for past stroke patients. The developed solution uses a Leap Motion controller as hand-tracking device and embeds a supervised Machine Learning methodology. Support Vector Machine (SVM) is used in order to assess the correctness of a set of simple rehabilitation exercises performed with a single hand.

Hand Rehabilitation via Gesture Recognition Using Leap ...

Leap Motion ieee Paper Leap Motion is a new gesture-capturing sensor hardware system that can take hand and finger gestures as input at a very high accuracy level compared to other devices such as Microsoft Kinect. Its capabilities give us a big range of applications that it can support. Leap Motion IEEE PAPER

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This paper proposes a novel hand gesture recognition scheme explicitly targeted to Leap Motion data. An ad-hoc feature set based on the positions and orientation of the fingertips is computed and fed into a multi-class SVM classifier in order to recognize the performed gestures.

[PDF] Hand gesture recognition with leap motion and kinect ...

The Leap Motion Controller and Processing IDE were used to track three fingers and wrist of the hand to control Soft Fingers through the pneumatic control board.

Control of Robot Arm Based on Hand Gesture using Leap ...

Gesture based human-robot interface is a highly efficient robot control strategy for its simple operation and high availability. This paper develops a hand gesture based robot control system using Leap Motion. The process that the robot responds to human's hand gesture contains noise suppression, coordinate transformation and inverse kinematics. A Client/Server structured robot control system is developed, which provides the function of controlling virtual universal robot UR10 with hand ...

Hand Gesture Based Robot Control System Using Leap Motion ...

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[24] Wei Lu, Member, IEEE, Zheng Tong, Jinghui Chu, "Dynamic Hand Gesture Recognition with Leap Motion Controller," IEEE Signal Processing Letters, vol. 23, no. 9, September 2016 [25] Thao Nguyen Thi Huong, Tien Vu Huu, Thanh Le Xuan, San Vu Van, "Static hand gesture recognition for Vietnamese sign language (VSL) using principle ...

Hand Gesture Recognition System - IJCTT

Research Papers " Real Time Sign Language Recognition using Leap Motion Controller " Deepali Naglot, Milind Kulkarni, in ICICT-2016 IEEE Conference, Tamilnadu. DOI: 10.1109/INVENTIVE.2016.7830097 .

Research Papers - C Programming Tutorial

Kenneth R. Moser, Sujan Anreddy, J. Edward Swan II, "Leap Motion Hand and Stylus Tracking for Calibration and Interaction within Optical See-Through Augmented Reality", VR Demonstration, IEEE International Conference on Virtual Reality (IEEE VR 2016), Clemson, South Carolina, USA, March 19-23, 2016.

Leap Motion Hand and Stylus Tracking for Calibration and ...

Ruffaldi [6] and Gunawardane [7] applied the Leap motion controller on the adaptive robotic arm manipulator. In the papers of Artal-Sevil [8] and Vani [9], the Arduino smart car is controlled by ...

Control of Robot Arm Based on Hand Gestures Using Leap ...

This paper introduces a novel hand gesture recognition system based on Leap Motion gen. 2. In this system, a spatial fuzzy matching (SFM) algorithm is firstly presented by matching and fusing spatial information to construct a fused gesture dataset.

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In this paper, we leveraged the technology of free-hand interaction to rehabilitate patients with stroke. We modified the game of Fruit Ninja to use Leap Motion controller's hand tracking data for stroke patients with arm and hand weakness to practice their finger individuation.

Free-hand interaction with leap motion controller for ...

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