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Abstract:In this paper, we present and evaluate an interactive gesture controlled application using the Leap Motion for medical visualization, focusing on user satisfactionIn as an important component in the composition of the application success factors. Usability testings were conducted to verify important application requirements, among which, the asepsis in the working environment, accuracy of the interaction gestures, interaction time, level of interactivity, naturalness, effectiveness ...

Gesture Interaction and Evaluation Using the Leap Motion ...
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In this paper, we present our proposed software called LeapAngles, that uses Leap Motion sensor to get goniometric measurements of the hand, such as Abduction of the Hand Fingers (AHF) and Flexion of the Metacarpophalangeal (MCP) Joint. To test the precision of the software, we carry out an experiment in which the measurements of AHF and MCP angles were taken by a physical rehabilitation specialist in ten young adults using a goniometer and LeapAngles software.

Hand goniometric measurements using leap motion - IEEE ...
ABSTRACT The Leap Motion opens new possibilities for mapping the various degrees of motion of the human hand with musical expression. The Leap Motion is a computer peripheral released in mid 2013 that uses IR cameras to track hand and finger location The Composing Hand: Musical Creation with Leap Motion and the BigBang Rubette. free download

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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 a method for automatic detection of cervical myelopathy by using Leap Motion Sensor for sensing hand motion to apply a method called the 10-s grip and release test. Leap Motion data is analyzed for computing feature of hand motion, which is used for automatic detection of patient or healthy people by random forests algorithm for machine learning.

Detection of cervical myelopathy with Leap Motion Sensor ...
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Abstract: The objective of this research was to design and construction of the system for control robot arm using LEAP Motion Controller. This research has adapted the principle of LEAP Motion Controller and servo motor control. The designed and constructed the project was composed of 3 main parts: 1) detector part, 2) signal control and processing part using microcontroller ATMEL 328 on board ...

Robot-arm control system using LEAP motion ... - IEEE Xplore
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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 ...
The paper deals with an experimental assessment of the Leap Motion Controller $$^{\\textregistered }$$ ® . This device is able to track the user's hands in a real environment. Due to low-invasiveness and easiness of use, it is promising for the integration in virtual or augmented reality, research and entertainment scenarios. The assessment is performed in a real context using volunteers ...

Accuracy in fingertip tracking using Leap Motion ...
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 ...
Leap Motion Controller. Small. Fast. Accurate. World-class hand tracking for anyone, anywhere. Ultraleap's optical hand tracking module captures the movements of your hands with unparalleled accuracy and near-zero latency. Where to buy Learn more. TOUCHLESS INTERFACES

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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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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 ...
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 ...

This paper proposes a new SL method, motion contrast 3D scanning (denoted by the point in the center), that simultaneously achieves high resolution, low acquisition speed, and robust perfor-mance in exceptionally challenging 3D scanning environments. Speed-resolution trade-off in SL methods: Most existing

MC3D: Motion Contrast 3D Scanning - Comp Photo Lab
Dynamic hand gesture recognition is a desired alternative means for human-computer interactions. This paper presents a hand gesture recognition system that is designed for the control of flights of unmanned aerial vehicles (UAV). A data representation model that represents a dynamic gesture sequence by converting the 4-D spatiotemporal data to 2-D matrix and a 1-D array is introduced.