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Gesture Recognition

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Applications

The application areas  
include the recognition of  
primitive postures in

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ballet/classical Indian  
dances, detection of  
pathological disorders from  
gestural data of elderly  
people, controlling motion  
of cars in gesture-driven  
gaming and gesture-commanded  
robot control for people

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with neuro-motor disability.

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The application areas

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people, controlling motion  
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gaming and gesture-commanded  
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with neuro-motor disability.

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Hand gesture recognition has  
many applications in the  
scientific and technological

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fields, for example: human  
computer interfaces (HCI),  
active prosthesis, and  
interaction with virtual ...

Gesture Recognition:  
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The application areas include the recognition of primitive postures in ballet\classical Indian dances, detection of pathological disorders from gestural data of elderly people, controlling motion

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of cars in gesture-driven  
gaming and gesture-commanded  
robot control for people  
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Applications The application  
areas include the

recognition of primitive  
postures in ballet/classical  
Indian dances, detection of  
pathological disorders from

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gestural data of elderly people, controlling motion of cars in gesture-driven gaming and gesture-commanded robot control for people with neuro-motor disability.

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Applications Studies

The application areas include the recognition of primitive postures in ballet/classical Indian dances, detection of pathological disorders from

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gestural data of elderly people, controlling motion of cars in gesture-driven gaming and gesture-commanded robot control for people with neuro-motor disability.

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## Applications

Various tools and techniques relevant to image processing, pattern recognition and computational intelligence, which have necessary applications in gesture

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Recognition, are also briefly explained here. The chapter outlines possible applications of gesture recognition. The scope of the book is also appended at the end of the chapter.

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Introduction | Springer for  
Research & Development

The authors in Sungho &  
Wonyong (2016) came up with  
two dynamic hand gesture  
recognition techniques using  
low complexity recurrent  
neural network (RNN)

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Techniques for wearable devices, the first was based on video signal and uses convolutional neural network (CNN) with RNN for classification, and the other used accelerometer data and applied RNN for

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A systematic review on hand  
gesture recognition  
techniques ...

Automated human gesture  
recognition is receiving  
significant research

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Interest, with applications ranging from novel acquisition techniques to algorithms, data processing, and classification methodologies. This tutorial presents an overview of the fundamental components and

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basics of the current 3D  
optical image acquisition  
technologies for gesture  
recognition, including the  
most promising ...

OSA | Fundamentals of  
automated human gesture

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## Techniques Applications

### 12.5.2 Gesture Recognition.

Hand gestures are recognized by wearing a data glove with a sensor. Hand shape is also detected by the data glove. Hand position is detected by a sensor attached to the

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glove. Research on gesture recognition without any kinds of devices is being carried out. For example, using two cameras, the left image of a hand shape and the right image are taken.

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Gesture Recognition – an  
overview | ScienceDirect  
Topics

Research papers based on  
hand gestures have adopted  
many different techniques,  
including those based on  
instrumented sensor

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Technology and computer vision. In other words, the hand sign can be classified under many headings, such as posture and gesture, as well as dynamic and static, or a hybrid of the two.

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J. Imaging | Free Full-Text  
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...

The application areas include the recognition of primitive postures in ballet/classical Indian dances, detection of

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pathological disorders from gestural data of elderly people, controlling motion of cars in gesture-driven gaming and gesture-commanded robot control for people with neuro-motor disability.

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?Gesture Recognition on  
Apple Books

Gesture recognition is a topic in computer science and language technology with the goal of interpreting human gestures via mathematical algorithms.

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Gestures can originate from any bodily motion or state but commonly originate from the face or hand. Current focuses in the field include emotion recognition from face and hand gesture recognition. Users can use

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Techniques Applications Studies

Simple gestures to control or interact with devices without physically touching them. Many approaches have been made using cameras and comp

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Wikipedia Techniques Applications

Dive into the code for using sensor data for tasks such as gesture detection and voice recognition. Focusing on the neural network of the applications, specifically on training and inference,

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Techniques Applications Studies  
you will review the code behind “OK Google,” “Alexa,” and smartphone features on Android and Apple .

Applications of TinyML | edX  
Abstract In this paper, we propose a hand gesture

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Recognition model based on superficial electromyographic signals.

The model responds in approximately 29.38 ms (real time) with a recognition accuracy of 90.7%. We apply a sliding window approach

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using a main window and a  
sub-window.

Real-Time Hand Gesture  
Recognition Based on ...

Abstract: With the  
advancement of wireless  
technologies and sensing

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Methodologies, many studies have shown the success of re-using wireless signals (e.g., WiFi) to sense human activities and thereby realize a set of emerging applications, ranging from intrusion detection, daily

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activity recognition, gesture recognition to vital signs monitoring and user identification involving even finer-grained motion sensing.

Wireless Sensing for Human

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Activity: A Survey — IEEE

## Studies

Dive into the code for using sensor data for tasks such as gesture detection and voice recognition. Focusing on the neural network of the applications, specifically

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on training and inference,  
you will review the code  
behind “OK Google,” “Alexa,”  
and smartphone features on  
Android and Apple .

Applications of TinyML |  
Harvard University

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Abstract. In recent years, to develop more spontaneous and instant interfaces between a system and users, technology has evolved toward designing efficient and simple gesture recognition (GR) techniques.

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As a tool for acquiring human motion, a tactile sensor system, which converts the human touch signal into a single datum and executes a command by translating a bundle of data into a text language or

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triggering a preset sequence  
as a haptic motion, has been  
developed.

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