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gestures/ Python,

OpenCV, Machine

Learning, PyAutoGUI

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recognition using

python and opencv

Real Time Sign

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with Tensorflow

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throughout entire
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Applications

The application areas
include the

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Recognition of primitive postures in 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 with neuro-motor disability.

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Gesture Recognition:

Principles,

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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 of

cars in gesture-driven

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Gesture

gaming and gesture-
commanded robot
control for people with
neuro-motor disability.

Applications

Gesture Recognition -
Principles,

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Hand gesture
recognition has many
applications in the
scientific and
technological fields,
for example: human

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computer interfaces

(HCI), active

prosthesis, and

interaction with virtual

Applications

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The application areas

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Recognition-driven
gaming and gesture-
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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 with neuro-motor disability.

Gesture Recognition | SpringerLink

Various tools and

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techniques relevant to image processing, pattern recognition and computational intelligence, which have necessary applications in gesture recognition, are also briefly explained here. The chapter outlines possible applications of gesture recognition. The scope of the book

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is also appended at
the end of the
chapter.

Introduction | Springer
for Research &
Development

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

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neural network (RNN) algorithms 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 classification.

A systematic review

Page 23/40

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on hand gesture

recognition

techniques ...

Automated human

gesture recognition is

receiving significant

research interest, with

applications ranging

from novel acquisition

techniques to

algorithms, data

processing, and

classification

methodologies. This

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tutorial presents an overview of the fundamental components and basics of the current 3D optical image acquisition technologies for gesture recognition, including the most promising ...

OSA | Fundamentals
of automated human

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Gesture

gesture recognition ...

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
glove. Research on
gesture recognition

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Gesture

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.

Gesture Recognition -
an overview |
ScienceDirect Topics
Research papers
based on hand

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Gesture

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

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J. Imaging | Free Full-
Text | Hand Gesture
Recognition ...

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

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Controlling motion of cars in gesture-driven gaming and gesture-commanded robot control for people with neuro-motor disability.

?Gesture Recognition on Apple Books

Gesture recognition is a topic in computer science and language technology with the goal of interpreting

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Gesture

human gestures via mathematical algorithms. 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 simple

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Gesture

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

Gesture recognition -
Wikipedia

Dive into the code for using sensor data for tasks such as gesture detection and voice

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Gesture

Recognition. Focusing on the neural network of the applications, specifically on training and inference, you will review the code behind “OK Google,” “Alexa,” and smartphone features on Android and Apple .

Applications of
TinyML | edX

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Abstract In this paper, we propose a hand gesture 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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Gesture

using a main window
and a sub-window.

Real-Time Hand
Gesture Recognition
Based on ...

Abstract: With the
advancement of
wireless technologies
and sensing
methodologies, many
studies have shown
the success of re-
using wireless signals

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Gesture

(e.g., WiFi) to sense human activities and thereby realize a set of emerging applications, ranging from intrusion detection, daily activity recognition, gesture recognition to vital signs monitoring and user identification involving even finer-grained motion sensing.

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Wireless Sensing for
Human Activity: A
Survey - IEEE ...

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, you will
review the code

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Gesture

behind “OK Google,”

“Alexa,” and

smartphone features

on Android and Apple

Applications

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Applications of

TinyML | Harvard

University

Abstract. In recent

years, to develop

more spontaneous

and instant interfaces

between a system

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Gesture

and users, technology has evolved toward designing efficient and simple gesture recognition (GR) techniques. 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

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Gesture

bundle of data into a text language or triggering a preset sequence as a haptic motion, has been developed.

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