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Neural Network Human
Activity Recognition
Using Smartphone
Sensors

Human Activity
Recognition Using
Wearable
This paper presents a
review of different
classification techniques
used to recognize

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Recognition from wearable inertial sensor data. Three inertial sensor units were used in this study and were worn by healthy subjects at key points of upper/lower body limbs (chest, right thigh and left ankle).

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Physical Human
Activity Recognition

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Using Wearable Sensors

Human physical activity recognition based on

wearable sensors has

applications relevant to

our daily life such as

healthcare. How to

achieve high recognition

accuracy with low

computational cost is an

important issue in the

ubiquitous computing.

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Miguel A. Labrador,
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A Survey on Human

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Activity Recognition
using Wearable Sensors
Abstract: Providing
accurate and opportune
information on people's
activities and behaviors
is one of the most
important tasks in
pervasive computing.

Innumerable
applications can be
visualized, for instance,
in medical, security,
entertainment, and

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Activity Recognition
using Wearable ...
Human Activity
Recognition (HAR) has
drawn extensive
attention in various
areas of mobile health
and context-aware
computing such as
recognition of Nurse

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care activities
[haque2019nurse],
assessment of the quality
of physical activities or
exercises performed by
rehabilitation patients or
athletes [panwar]. HAR
is defined as the
automated classification
of the activities of
specific subjects wearing
heterogeneous sensors
placed at different body
locations.

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Sensors And
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Using ...

Abstract—Human
activity recognition
based on wearable sen-
sor data has been an
attractive research topic
due to its appli- cation
in areas such as
healthcare and smart

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Human Activity

Recognition

environments. In this context, many works have presented remarkable results using accelerometer, gyroscope and magnetometer data to represent the activities categories.

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Recognition Based on
Wearable Sensor Data

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and Implement HAR
Systems The

pervasiveness and range
of capabilities of today's
mobile devices have
enabled a wide

spectrum of mobile
applications that are
transforming our daily
lives, from smartphones
equipped with GPS to
integrated mobile

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sensors that acquire
physiological data.

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Human Daily and Sport
Activity Recognition
Using a Wearable

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Inertial Sensor Network.

Abstract: This paper presents a wearable inertial sensor network and its associated activity recognition algorithm for accurately recognizing human daily and sport activities. The proposed wearable inertial sensor network is composed of two wearable inertial sensing devices, which

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Recognition
comprise a
microcontroller, a
triaxial accelerometer, a
triaxial gyroscope, an
RF wireless transmission
module, and a power ...

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Human Daily and Sport
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Our wearable system is
based on a new set of 20
computationally

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efficient features and the Random Forest classifier. We obtain very encouraging results with classification accuracy of human...

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Recognition using

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Physiological Data from
Wearables Created By:

Kush Gulati, Annie
Hirsch, Noah Lanier,
Nathan Warren

Human activity recognition (HAR) is a rapidly expanding field with a variety of applications from biometric authentication to developing home-based rehabilitation for people suffering from traumatic

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— Human Activity
Recognition Using
Wearable Sensors by
Deep Convolutional
Neural Networks, 2015.

Below is a depiction of
the processing of raw

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sensor data into images,
and then from images
into an “ activity
image, ” the result of a
discrete Fourier
transform. Processing of
Raw Sensor Data into
an Image

Deep Learning Models
for Human Activity
Recognition
Activity recognition

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Human Activity

based on new wearable technologies (wearable sensors and accessories, smartphones, etc.) is one of these important challenges. Recognizing and monitoring human activities are fundamental functions to provide healthcare and assistance services to elderly people living

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This repository provides the codes and data used in our paper "Human Activity Recognition Based on Wearable Sensor Data: A Standardization of the State-of-the-Art", where we implement and evaluate several state-of-the-art approaches,

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ranging from
handcrafted-based
methods to
convolutional neural
networks.

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Activity recognition
from on-body sensors by
classifier fusion: Sensor
scalability and

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robustness. In
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281--286. Google
Scholar Cross Ref; Mi
Zhang and Alexander
A. Sawchuk. 2012.
Motion primitive-based
human activity
recognition using a bag-
of-features approach.

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A tutorial on human
activity recognition

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Human activity recognition (HAR) is a classification task for recognizing human movements. Methods of HAR are of great interest as they have become tools for measuring occurrences

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(PDF) Convolutional
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Abstract Activity
Recognition is an
emerging field of
research, born from the
larger fields of
ubiquitous computing,
context-aware
computing and

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multimedia. Recently,
recognizing everyday
life activities becomes
one of the challenges for
pervasive computing. In
our work, we developed
a novel wearable system
easy to use and
comfortable to bring.

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