

# Activity Recognition In Pervasive Intelligent Environments Author Jesse Hoey Sep 2011

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#### **Activity Recognition In Pervasive Intelligent Environments ...**

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#### **Activity Recognition In Pervasive Intelligent Environments ...**

PAGE #1 : Activity Recognition In Pervasive Intelligent Environments Atlantis Ambient And Pervasive Intelligence By John Grisham - activity recognition in pervasive intelligent environment atlantis ambient and pervasive intelligence band 4 liming chen chris d ...

#### **Multioccupant Activity Recognition in Pervasive Smart Home ...**

Multioccupant Activity Recognition in Pervasive Smart Home Environments 34:3 Fig 1 Interleaved activities (a single occupant) —Complex activity consists of many subactivities as fine-grained activities For in-stance, the activity “cooking soup” could be modeled as a sequence of subactivities: measure water, pour water into a pot, add contents of the bag, cook, and serve in a

#### **Human Activity Recognition from Wireless Sensor Network ...**

166 Activity Recognition in Pervasive Intelligent Environment taking place For example, cooking and getting a drink both involve opening the fridge

Sensors can measure that the fridge is opened, but not which item is taken from the fridge Third, activities can be performed in a large number of ways, making it difficult to create a

### **Chapter 3 Activity Recognition: Approaches, Practices and ...**

Activity recognition has attracted increasing attention as a number of related research areas such as pervasive computing, intelligent environments and robotics converge on this critical issue It is also driven by growing real-world application needs in such areas as ...

### **Computational Intelligence for Pervasive Systems**

Activity Recognition Cloud Computing Services for Pervasive Computing Smart Cities and Smart Homes Intelligent Social Networking Pervasive Technologies for ITS H I for Pervasive Computing Mobile Data Modeling Middleware for Pervasive Computing

### **An Introduction to Plan, Activity, and Intent Recognition**

made instrumenting smart spaces practical and brought activity recognition to the forefront of research in the computer vision and pervasive computing communities In activity recognition, researchers have to work directly with sensor data extracted from video, accelerometers, motion capture data, RFID sensors, smart badges, and Bluetooth

### **Persim - Simulator for Human Activities in Pervasive Spaces**

human activity recognition We present Persim, an event driven simulator of human activities in pervasive spaces Persim is capable of capturing elements of space, sensors, behaviors (activities), and their inter-relationships We focus on presenting the five main use cases for Persim addressing dataset

### **Activity Recognition for the Smart Hospital**

staff is executing Thus, activity estimation is central to the design of activity-aware applications that let ambient-intelligence environments discover the information relevant to the task at hand, thus empowering our iHospital vision We used HMMs for activity recognition because they consider past information when

### **Competitive Live Evaluation of Activity-recognition Systems**

In order to ensure the validity and usability of activity recognition approaches, an agreement on a set of standard evaluation methods is needed Due to the diversity of the sensors and other hardware employed, designing and accepting standard tests is a difficult task This article presents an initiative to evaluate activity recognition systems:

### **Transferring Knowledge of Activity Recognition across ...**

21 Activity Recognition Systems Activity recognition systems consist of a sensing system for obtaining observations and a recognition model which interprets these observations and recognizes which activities are performed Sensing systems may include camera's [10], RFID [19,30], wearables [11,15] and wireless sensor networks [23,27]

### **An Overview of Human Activity Detection Technologies for ...**

An Overview of Human Activity Detection Technologies for Pervasive Systems Adriana G Wilde Seminar paper Master in Informatics DIUF - Department of Informatics University of Fribourg, Switzerland adriana.gabrielawilde@unifr.ch Abstract Accurate recognition of human activities is an important goal of pervasive computing Furthermore

### **ACTIVITY RECOGNITION IN COMPLEX SMART ENVIRONMENT ...**

learning and pervasive computing, home automation systems have emerged 2 A smart environment is an intelligent environment, which perceives the

state of the space using sensors, analyzes the state using activity recognition system in different applications domains In the end, the

### **Energy-Efficient Activity Recognition using Prediction**

in mobile pervasive technology For intelligent wearable applications to be practical, methods for low power activity recognition must be embedded in mobile devices We present a novel method for activity recognition which leverages the predictability of human behavior to conserve energy The novel algorithm accomplishes this by quantifying

### **Fine-Grained Kitchen Activity Recognition using RGB-D**

based solution to fine-grained activity recognition in real-world conditions will bring the intelligence of pervasive and interactive systems to the next level Author Keywords Smart Spaces, Kitchen, Activity Tracking, Object Recognition, Action Recognition, RGB-D ACM Classification Keywords H52 Information interfaces and presentation (eg

### **Demo: A Mobile App for Nursing Activity Recognition**

Workers' Routine Activity Recognition using Body Movements and Location Information In Wearable Computers, 2006 10th IEEE International Symposium on (pp 105-108) IEEE 5 Osmani, Venet, Sasitharan Balasubramaniam, and Dmitri Botvich 2008 Human activity recognition in pervasive health-care: Supporting efficient remote collaboration

### **Transfer Learning for Activity Recognition: A Survey**

Activity recognition aims to identify activities as they occur based on data collected by sensors There exist a number of approaches to activity recognition [28] that vary depending on the underlying sensor technologies that are used to monitor activities, the alternative machine learning algorithms that are used to model the

### **A Human-centered Wearable Sensing Platform with ...**

accuracy in activity recognition applications [23], where contexts and locations are known Therefore, both labeling and eating detection systems need context-aware approaches to develop pervasive recognition systems OmniTrack [16] is a platform that attempts to overcome pervasiveness challenges in self-tracking However,

### **Exploiting Passive RFID Technology for Activity ...**

IEEE INTELLIGENT SYSTEMS  $\cap, \circ \cap \circ, \cap \circ, \circ \cap \partial$  activity Recognition,,),),),),),) 1 (+ ) < (- ~) + (- ~)  $\leq \leq$  (+ ) e =

### **Agent Based Ubiquitous Computing Atlantis Ambient And ...**

ambient and pervasive intelligence download ubiquitous computing is the third wave in computing services applications that are more immersive more intelligent ambient and pervasive intelligence is a vision of the future where computers and computing devices will be available naturally and