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ITEA 3 is a EUREKA strategic ICT cluster programme

Exploitable Results by Third Parties

14012 EmoSpaces

Project details

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DAily Home LIfe Activity (DAHLIA) Dataset		
Input(s):	Main feature(s)	Output(s):
	▪ A public video dataset for daily home life activities. ▪ Recorded with three Kinects v2. ▪ Available data: color stream, depth stream, 3D skeletons coordinates and starting and ending time of each activities annotated. ▪ Activities played by 45 people: cooking, laying the table, eating, clearing the table, washing the dishes, doing housework, is doing homework (e.g. reading books and writing on a paper).	

Unique Selling Proposition(s):	A public dataset for daily home life activity recognition
Integration constraint(s):	
Intended user(s):	▪ Scientific community which is working on activity recognition or more widely on computer vision.
Provider:	▪ CEA-LIST
Contact point:	▪ Quoc Cuong PHAM: quoc-cuong.pham@cea.fr
Condition(s) for reuse:	▪ Available for downloading on the website http://www-mobilemii.cea.fr/ after filling the approval form

Latest update: 28/05/2019

A method to automatically detect activities in videos		
Input(s):	Main feature(s)	Output(s):
▪ Video stream from a Kinect v2: color stream and 3D skeleton data	▪ An existing software targeting activity recognition is adapted to the project use cases and implemented to run in real time. ▪ The software recognizes (and temporally locates) the different daily activities that are performed, among the following list : is cooking, is sitting the table, is eating, is clearing the table, is washing the dishes, is doing housework, is doing homework (e.g. reading books and writing on a paper).	▪ Automatic recognition of daily activities ▪ Scores over each activities at each time

Unique Selling Proposition(s):	A method to automatically detect activities in videos
Integration constraint(s):	▪ The use of a Kinect v2
Intended user(s):	▪ Any end-user interested in an activity recognition module
Provider:	▪ CEA-LIST
Contact point:	▪ Quoc Cuong PHAM: quoc-cuong.pham@cea.fr
Condition(s) for reuse:	▪ Not open source and subject to license

Latest update: 28/05/2019

Name: < real-time person tracking and re-identification software >		
Input(s):	Main feature(s)	Output(s):
▪ Face enrolment data-base ▪ Video streams via IP camera or webcam or video ▪ Camera calibration file (Calibration matrix	▪ The goal is to increase the performances of the re-identifying algorithm in real scenari (facial expression variations, illumination variations, pose variations, occlusion…) by coupling two modalities : facial recognition and soft biometry of the silhouette.	▪ Person identification ▪ Real time localization ▪ Tracks of the identified person

Unique Selling Proposition(s):	▪ Real-time people tracking in a realistic in-door scenario for time-critical video analysis applications
Integration constraint(s):	▪ linux ▪ GPU GTX 1070 ▪ Intel core i7-6700 HQ
Intended user(s):	▪ System integrator for video surveillance applications ▪ Research engineers/scientific community
Provider:	▪ Thales SIX GTS FRANCE SAS
Contact point:	▪ Jean-Emmanuel Haugeard: jean-emmanuel.haugeard@thalesgroup.com
Condition(s) for reuse:	▪ Commercial license to be negotiated depending on the number of camera of the CCTV and on other needs of the system integrator

Latest update: 28/05/2019

Name: EMOSPACES E-LEARNING PLATFORM		
Input(s):	Main feature(s)	Output(s):
The emotions received from end-users as [Neutral, Happy, Surprised, Disgusted, Afraid, Angry, Sad].	Collect and analyze the emotions of users while doing online courses	Visualization of the teachers about the emotions of the users in the realization of the courses.

Unique Selling Proposition(s):	▪ This software provides the ability to analyze the feelings of users in each course they perform within the platform. In addition, the courses of the platform can be better oriented.
Integration constraint(s):	▪ ERL software: Setup, and API communication. ▪ PHP 5.5 (or newer) ▪ MySQL / MariaDB ▪ Chamilo LMS 1.11 ▪ Web camera with Access possibility ▪ Lib Chart.JS
Intended user(s):	▪ Users (administrator, teachers, students) of an e-learning platform.
Provider:	▪ Experis ManpowerGroup SLU
Contact point:	▪ Carlos Prades - Carlos.prades@experis.es
Condition(s) for reuse:	licensed software.

Latest update: 24/05/2019

Name: ITI's Emotions Big Data Analytics as a Service (BDAaaS) Platform		
Input(s):	Main feature(s)	Output(s):
▪ Audiovisual content. ▪ Wearables and other biometric sensors measurements. ▪ IoT sensors measurements. ▪ Text from social networks.	▪ Capabilities for capturing and storing information. ▪ A set of tools that help fuse and analyze data from multiple sources. ▪ Environment to develop and execute algorithms. ▪ Catalogue with useful algorithms for emotion analysis ▪ Distributed storage layer. ▪ Distributed processing layer. ▪ Cloud-based solution.	▪ Results of the data analysis applied to the data stored in the platform. ▪ Access to stored data.

Unique Selling Proposition(s):	▪ ITI Emotions BDAaaS allows the partners to focus on data analysis and processing, without being buried by the details of configuration, services, adaptability, deployment and making transparent the selection of the underlying IaaS. ▪ ITI Emotions BDAaaS provides an ecosystem of services to address different scenarios such as Predictive Analysis and Exploratory Data Analysis (EDA) based on batch (Batch) or real-time processing (Stream). ▪ ITI Emotions BDAaaS provides a catalogue with useful analytics techniques to analyse emotions on input data.
Integration constraint(s):	▪ Cloud-based solution: requires a Platform as a Service provider in order to deploy BDAaas.
Intended user(s):	▪ Data scientists. ▪ Managers (thanks to the dashboards generated by the tools provided in the platform). ▪ Data providers and consumers.
Provider:	▪ Instituto Tecnológico de Informática (ITI)
Contact point:	▪ Daniel Saez – dsaez@iti.es
Condition(s) for reuse:	▪ Offered as a service, conditions to be determined.
	Latest update: 23/05/2019

Name: Healthcare monitoring with self-adaptive coaching using probabilistic reasoning		
Input(s):	Main feature(s)	Output(s):
▪ Patient medical history ▪ Patient vital signs ▪ Patient activity ▪ Patient emotion ▪ Ambient information (humidity, temperature, etc.)	▪ Customizable rules and models ▪ Modeling of medical conditions ▪ Probabilistic reasoning	▪ Sensing actions ▪ Coaching ▪ Screening
Unique Selling Proposition(s):	▪ Maidis approach relies on probabilistic reasoning contrary to other approaches using events and rules only. This reduces the number of sensing actions to infer the patient situation ▪ The system considers uncertainty in the contextual information gathered from sensors. ▪ Because of the integration with an HIS (product of Maidis), there is a possibility of accessing priceless information about the patient through his medical file; which helps the reasoning to achieve an utmost precision. ▪ This solution is developed using Web Services technologies, and standard (ICD10) interface which makes it easy to integrate with data provider/consumers	
Integration constraint(s):	▪ Integration with an HIS (currently Maidis) ▪ Integration with systems providing patient activity or emotion information (e.g. IOT sensors)	
Intended user(s):	▪ Patients, doctors	
Provider:	▪ Maidis SAS	
Contact point:	▪ Fadi Zahran, Product director – fadi.zahran@maidis.fr	
Condition(s) for reuse:	▪ Commercial use - License (yearly)	
	Latest update: 27/05/2019	

Name: Taiger Textual Analytics Platform		
Input(s):	Main feature(s)	Output(s):
▪ Structured / Nonstructured text	▪ Sentiment Analysis ▪ Text Summarization ▪ Tokenizer ▪ Classification ▪ Disambiguation ▪ Entity Recognition ▪ Language Detection	▪ Input text plus extracted information from the features
Unique Selling Proposition(s):	▪ Text Analytics platform to extract relevant information automatically and to add value to the information ▪ Extract hidden features from text	
Integration constraint(s):	▪ Java version > 8 ▪ Node.js version > 8 ▪ Docker	
Intended user(s):	▪ Companies that want to implement some Text Analytics techniques without coding	
Provider:	▪ TAIGER	
Contact point:	▪ Iván Martínez – ivan.martinez@taiger.com	
Condition(s) for reuse:	▪ Free License	
	Latest update: 27/05/2019	

Name: EWE Tasker		
Input(s):	Main feature(s)	Output(s):
▪ Semantic automation rules set	▪ Semantic task automation platform for smart environments ▪ Customizable automation rules ▪ Emotion recognition	▪ Environment adaptation
Unique Selling Proposition(s):	▪ Semantic automation platform that allows users to easily configure and customize their own automation rules ▪ Enables automation rules based on the user emotion	
Integration constraint(s):	▪ Python ▪ NPM ▪ React	
Intended user(s):	▪ End users	
Provider:	▪ UPM	
Contact point:	▪ Sergio Muñoz (sergio.munoz@upm.es)	
Condition(s) for reuse:	▪ Free license	
Latest update: 28/05/2019		

Name: <Inconsistency Detection>		
Input(s):	Main feature(s)	Output(s):
▪ MQTT message with the topic of “allinclusive”	▪ Recognize inconsistencies between activity and location and inconsistencies between activities and emotions	▪ MQTT message with the topic of “inconsistency_message”

Unique Selling Proposition(s):	▪ Automatic application to find inconsistency among activity, location and emotion.
Integration constraint(s):	▪ Python 3.3 (or newer) ▪ Owlready2 ▪ MQTT
Intended user(s):	▪ Application developers or research engineers without any knowledge about ontology, inconsistency, and reasoning programming language that have interest to recognize inconsistency in order to improve the performance of their application can use this application.
Provider:	▪ Roghayeh MOJARAD
Contact point:	▪ Roghayeh.mojarad@u-pec.fr
Condition(s) for reuse:	▪ Free licence

Latest update: 28/05/2019

Name: <Inconsistency Detection>		
Automatic Adapted music Server		
Input(s):	Main feature(s)	Output(s):
User identification User location	▪ MultiRoom audio streaming: sound played only in the room where people are. ▪ A real time software applies audio filter to an audio stream. ▪ The software loads coefficients table of depending on the user to adapt the sound to his hearing capacities	Automatic music stream is the occupied room Sound adapted to the user hearing capabilities
Unique Selling Proposition(s):	A method to automatically adapt the sound to the user hearing capabilities	
Integration constraint(s):	Windows based server 4 Rooms 4 Users Local music content (hard drive)	
Intended user(s):	▪ Research engineer / scientific community ▪ Multiroom audio providers	
Provider:	▪ Arkamys	
Contact point:	▪ Frederic Amadu: famadu@arkamys.com	
Condition(s) for reuse:	▪ Not open source and subject to license	