Yuxi Zhang
Computer Science

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RESEARCH EXPERIENCE

Discovering Human Mobility Patterns With Topic Probability Model

JUN 2014 – SEP 2014

Big Data and Business Innovation Lab
Shanghai Jiao Tong University

This project aimed to classify different types of users and extract the patterns of their driving behaviors as well as the hidden region functions and temporal patterns.

We proposed a model named Temporal-Spatial Latent Dirichlet Allocation (TS-LDA), an extended probabilistic topic model based on Latent Dirichlet Allocation (LDA), to analyze driving patterns.

Sonification of Electroencephalograph in Brain-Computer Interface

NOV 2013 – MAY 2014

Brain-like Computing and Machine Intelligence Lab
Shanghai Jiao Tong University

This project aimed to display the emotion statements hidden behind the brain signals in a sonification way, a data representation method through sound to convey information.

We proposed a hybrid sonification method which combines the frequency features of brain signals and the emotion labels classified by Supporting Vector Machine (SVM).

PUBLICATIONS

Zhang Yuxi, Hu Jiawei, Zhang Ya. Mobility Pattern Discovery from Automobile Traces with A Temporal Spatial Model, submitted to the Twenty-Ninth AAAI Conference on Artificial Intelligence (AAAI-15).

Zhang Yuxi, Huang Yifeng, Yue Junwei, Zhang Liqing. Sonification for EEG Frequency Spectrum and EEG-Based Emotion Features[C]//Neural Information Processing. Springer International Publishing, 2014: 42-49.

INTERNSHIP EXPERIENCE

Live Media Broadcasting over Azure

SEP 2014 – PRESENT

Microsoft IT, *Shanghai*

This project aims to build a live media broadcasting platform over cloud (Microsoft Azure). The broadcaster can use a camera to upload live video stream to cloud through an encoder. The platform is logged in through ADFS authentication and provides live video seminar and topic discussion based on Yammer.

EDUCATION

SEP 2011 – JUN 2015

B.S. in Computer Science, IEEE Honor Class
Shanghai Jiao Tong University, China
- GPA: Major: 87.3/100, Overall: 87.2/100

JUL 2013 – AUG 2013

Summer Session in U.C. Berkeley, U.S.A.
- Course: The Nature of Mind, Introduction to How the Brain Works.

SCHOLARSHIP

2013	Xindong Scholarship (Third-Class), XinDong Co. Ltd. (TOP 8%)
2013	Academic Excellence Scholarship (Second-Class), Shanghai Jiao Tong University (TOP 10%)

CONTESTS AND HONORS

FEB 2014	The Mathematical Contest in Modeling (MCM), **Meritorious Award**
NOV 2012	The Fourth Pro-Face Cup Human-Computer Interface Coding Contest, **The 1st Prize**
MAY 2012	Microsoft Research Asia (MSRA) *Beauty of Programming* Contest, National Final (64 out of 3850)
MAY 2012	Merit Student in Shanghai Jiao Tong University
NOV 2010	National Olympiad in Informatics in Provinces (NOIP), **The 1st Prize**

TEACHING-ASSISTANT EXPERIENCE

SPRING 2013	Programming & Data Structure
SUMMER 2012	Programming Practice
SPRING 2012	Programming & Data Structure

COMPUTER SKILLS

PROGRAMMING	C/C++/C#, Java, Python, MATLAB, PASCAL, HTML, Javascript, SQL, LABVIEW
OPERATING SYSTEM	Windows, Linux
DOCUMENTATION	LaTeX