

FIT5190 Introduction to IT Research Methods

Assignment 3: Overview of a Research Project

Project titles (topics) completed

2012

A comparison of P2P files sharing models on efficiency and traffic
A comparison of replica placement strategies in distributed storage systems
A hierarchical ontology scheme for organizing Chinese social website tags
An intelligent video surveillance system based on Android platform
Analysis of unified power quality conditioner and research on its control strategy
Choosing an image enhancement algorithm for pre-processing a business card
Constructing a comprehensive knowledge base from DBpedia
Design and implementation of a distributed intelligent video surveillance system based on Android phone
Evaluating loan applicants using neural networks
Feasibility of VANET and its routing protocols
Implementation of face detection system on DSP platform
Overview of dynamic reactive power compensation
Ranked query review and optimization
Regularized back-propagation neural network for river discharge prediction
WiMAX versus LTE: Which one will lead the next generation mobile network?

2013

A personalized recommender system based on a hybrid recommendation algorithm
A semantic relatedness measurement between terms based on folksonomies
Anonymization approaches for privacy-preserving data publishing
Application of streaming media compression algorithms in 3G wireless networks
Building Chinese linking open data
Cloud computing security requirements and threats
Data extraction and feature recognition of geometric entities base on DXF files
Effective car classification using neural networks
Effective measures to improve the performance of wireless mesh networks
Machine learning and wireless network in the application of object recognition and detection
Predicting diabetes mellitus using neural networks
Routing in pocket switched networks
Simulation study on the interference between TDLTE and LTE-FDD
Social information extraction using probabilistic topic model

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2014

A comparison between two web data extraction methods
A delay reduced design for mobile video chat applications
A movie recommender system using knowledge bases
A new resampling method for particle filter localization
A primary research on mobile communication and network fusion
An easier way to build and maintain big-data analytics
An eye location method
An efficient RDF store schema over a relational database
An overview of bank marketing forecast based on neural networks
Broadcast protocols used in wireless VANET networks
Classifying abalone shellfish
Combining neural networks and financial indices to predict the stock trend in China
Comparison between two web data extraction methods
Design and implementation of a distributed storage performance test system
Design of gesture recognition system for human-machine interaction
Directing marketing campaigns of banking institutions
Evaluating the quality of red wine based on physicochemical tests
Gaining insight from complex datasets with visual analytics
Improving customer relationship management using data mining
Incorporating financial indices into neural networks to predict the stock trend in China
Information extraction using Datalog
Prediction of wine quality based on classification and clustering algorithms
Social based recommendation with enhanced self-adaptation ability
Techniques of Internet traffic classification
White wine quality certification using neural networks

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2015

A data-driven approach to predict the success of bank telemarketing using neural networks

A new model for social networks

Designing a secure barcode-based visible light communication for smart devices

Effective ways to ensure customer privacy in e-commerce

Entity recognition and disambiguation systems

Face recognition based on BP neural networks and K-nearest comprehensive decisions

Flexible task allocation in participatory sensing with smart phones

Improving efficient search in big data

Lexical dictionary-based sentence alignment and an improvement

Linking entities with knowledge bases

Mechanisms and limitations of distributed computing models

Mining type information from Chinese online encyclopaedia

Optimization models for power plant equipment location

Predicting duotone ball lottery using GA-BP neural networks

Probabilistic concept models

Social network assisted device-to-device communication

Software defined networks: A new architecture for modern networks

Virtual machine placement in data centers

Wearable technology in healthcare with a remote medical system

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2016

A combination of neural networks and matrix factorization in recommender systems

A generic solution to judge the performance of paraphrasing models and domain-general logical forms for semantic parsing

A new solution of single point of failure for HDFS

Addressing cloud computing security issues

An application of data mining in building intelligent transportation systems

An application of the neural network model on diagnosis of hepatitis

An improved cloud computing framework

An improved hybrid scheme for gesture segmentation

Artificial neural networks in fruit classification

Anchor links prediction problems for heterogeneous social networks

Building an NN model with the best training efficiency on an acceptable accuracy

Click fraud detection

Classifying the reason for elevator accidents with neural networks and decision trees

Semantic data mining using RDF hypergraphs

Text classification through Bayes' theorem

Web page segmentation

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2017

A review of word alignment techniques

A SNS-based movie recommender system

An application of neural network models to fingerprint recognition

An application of sentiment analysis in e-commerce evaluation systems

An efficient method of license plate localization under complex background

An improved approach for face recognition

Capture the breath: some methods to detect the respiration rate

Deep reinforcement learning towards games

Detecting the onion network traffic in meek mode using SVM

Feature selection of machine learning on cardiovascular disease detection

N-ary relations mining

Prediction of resource demand for large scale graph data processing in cloud environments

Semi-supervised label distribution learning for facial age estimation

SQL injection attack detection using fuzzy logic and naïve Bayes

Stock trading with deep reinforcement learning

Type inference on noisy linked data

Understanding the difficulty of training deep neural networks and some solutions

Web page classification based on content extraction