

PUBLICATIONS

Time Perception Machine: Temporal Point Processes for the When, Where and What of Activity Prediction

·Y. Zhong, **B. Xu**, G.-T. Zhou, L. Bornn, G. Mori

·*arXiv preprint arXiv:1808.04063*, 2018

WiLocator: WiFi-sensing Based Real-time Bus Tracking and Arrival Time Prediction in Urban Environments

·W. Liu, J. Liu, H. Jiang, **B. Xu**, H. Lin, G. Jiang, and J. Xing

·In *Proceedings of IEEE International Conference on Distributed Computing Systems (ICDCS)*, 2016

WORK EXPERIENCES

Ericsson Canada Inc., Burnaby, Canada

Sep/2015 - Dec/2015

Software Developer Coop - IP Operating System Team

·Implemented packets' incoming rate check feature for line cards according to different router platforms using C programming language

·Designed and implemented test cases for packets' incoming and outgoing rate check functions for line cards

COURSE-RELATED PROJECTS

Handwritten Chinese Character Generation via Neural Generative Models

Mar/2018 - Apr/2018

Major Contributor, Machine Learning, UBC

·Exploited generative adversarial networks (GAN), variational auto-encoders (VAE), and their combinations to generate handwritten Chinese characters conditioned on their GBK encodings

·Used PyTorch library to build the neural network models

Evaluating Visual Perception with Bouncing Motion

Nov/2017 - Dec/2017

Main Investigator, Computer Animation, UBC

·Designed a perceptual experiment and developed a novel interactive interface that supports to investigate human perception to bouncing motions

·Displayed a rigid ball falling and bouncing from a hill to detect a just noticeable range of plausible motions that loosely follow the law of physics

·Validated the experiment design and the interface in piloting studies, providing insights to the theory of perception and physical simulation

Distributed File System with Transactional Semantics

Nov/2016 - Dec/2016

Software Designer and Developer, Programming Parallel and Distributed Systems, SFU

·Implemented a distributed file system with transactional semantics following the properties of Atomicity, Consistency, Isolation, and Durability using Java

·Handled omission, byzantine and failstop failures on the client and failstop failures on the server

QuickActivity: A Web-based Activity Post and Participate System

Jun/2015 - Aug/2015

Group Leader and Main Developer, Web-Based Information Systems, SFU

·Developed a web-based self-service activity-posting and activity-attending platform using Django as development framework

·Supported the functions of activity searching, posting, attending, bookmarking and other useful features such as printing activity details as PDF files and exporting activity-attending information as CSV files

SKILLS

Programming: C, C++, Python, MATLAB, Java, JavaScript, PHP, HTML5, CSS3, HDL (Verilog Hardware Description Language), SQL, Swift (for iOS programming)

DL Frameworks: PyTorch, TensorFlow, Theano, Caffe

Language: English, Mandarin Chinese