Kun Li

CONTACT INFORMATION

1855 Athens Street
Apartment 225
Boulder, CO 80302 USA

Voice: (303) 512-3816
E-mail: likunarmstrong@gmail.com
WWW: http://eces.colorado.edu/~kkli

EDUCATION

University of Colorado at Boulder , Boulder, Colorado USA
Department of Electrical, Computer, and Energy Engineering

Ph.D. Candidate, Computer Engineering, 2010-present

- Advisor: Li Shang

M.S., Computer Engineering, 2008-2010

Xidian University, Xi'an, ShaanXi China
Department of Telecommunication engineering

B.A., Electrical engineering, 2002-2006

PROFESSIONAL EXPERIENCE

Google, Mountain View, California USA

Internship **May, 2013 - Aug, 2013**

Google Ads team

Internship **May, 2012 - Aug, 2012**

Participated in developing Google's confidential next generation mobile interface technologies.

Internship **May, 2011 - Sep, 2011**

Implemented the first version of gesture keyboard of Android OS. An internal product release was made based on this project. Upom completion of my internship I received and extraoridarny performance award that is rarely given to an intern or any employees.

Chinese Academy of Sciences, Beijing China

Internship **March, 2007 - May, 2007**

Worked on a High Speed Digital Transmission System used on satelite platform.

University of Colorado Boulder, Boulder, CO USA

Research Assistant **August, 2008 - present**

Project: Personalized Multi-modality Image Search for Mobile Devices System

- Skills: QT, C++, Python, data mining, machine learning, distributed system.
- Designed and implemented a easy-to-use, multi-modality image browser, associated graphic user interface, based on N810 System.

Project: Battery System Modeling and Driving Behavior Analysis for Emerging Green-Energy Transportation

- Skills: Statistical modeling, data mining, machine learning, Python, Objective-C, iOS programming, Java, Android programming .
- Proposed, designed and implemented a automatical sensing framework based on wavelet transformation and SVM.
- Co-designed user driving behavior regression model

Project: Personal Pollutant Exposure Monitoring System

- Skills: System design, Java, Android programming, Python .
- Proposed and implemented a collaborative zoning algorithm for sensing reading sharing.
- Participated in system infrastructure design, implemented the system prototype based on Android platform.

Publications

Yifei Jiang, Yun Xiang, Xin Pan, Kun Li, Qin Lv, Robert Dick, Michael Hannigan, Li Shang, Hallway based Automatic Indoor Floorplan Construction using Room Fingerprints. In Proceedings of the 2013 ACM International Joint Conference on Pervasive and Ubiquitous Computing(*Ubicomp*, Sep, 2013.

Yifei Jiang, Kun Li, Lei Tian, Ricardo Piedrahita, Xiang Yun, Omkar Mansata, Qin Lv, Robert P. Dick, Michael Hannigan, and Li Shang. User-Centric Indoor Air Quality Monitoring on Mobile Devices. AI Magazine, 2013.

Kun Li, Changyun Zhu, Qin Lv, Li Shang, Robert P. Dick. "Personalized Multi-Modality Image Management and Search for Mobile Devices", in Personal and Ubiquitous Computing 13(5), Apr, 2013, Springer Verlag.

Jie Wu, Jia Wang, Kun Li, Hai Zhou, Qin Lv, Li Shang, Yihe Sun. Large-Scale Energy Storage System Design and Optimization for Emerging Electric-Drive Vehicles. IEEE Transactions on Computer-Adided Design of Integrated Circuits and Systems (*TCAD*), Oct, 2012.

Yifei Jiang, Xin Pan, Kun Li, Qin Lv, Robert Dick, Michael Hannigan, Li Shang. "ARIEL: Automatic Wi-Fi Based Room Fingerprinting for Indoor Localization", in Proceedings of the 14th ACM international conference on Ubiquitous computing (*Ubicomp*), Sep, 2012.

Kun Li, Man Lu, Fenglong Lu, Qin Lv, Robert Dick, Michael Hannigan, Li Shang. "Personalized Driving Behavior Monitoring and Analysis for Emerging Hybrid Vehicles". The Tenth International Conference on Pervasive Computing (*Pervasive*), June, 2012.

Yifei Jiang, Kun Li, Lei Tian, Ricardo Piedrahita, Xiang Yun, OmKar Mansata, Qin Lv, Robert Dick, Michael Hannigan, Li Shang. "MAQS: A Personalized Mobile Sensing System for Indoor Air Quality Monitoring". The 13th International Conference on Ubiquitous Computing (*Ubicomp*), Sep, 2011.

Kun Li, Jie Wu, Yifei Jiang, Zyad Hassan, Qin Lv, Li Shang and Dragan Maksimovic, "Large-Scale Battery System Modeling and Analysis for Emerging Electric-Drive Vehicles". ACM Int. Sym. Low Power Electronics and Design(*ISLPED*), Aug. 2010. (**Nominated for Best Paper Award**)

Jie Wu, Kun Li, Yifei Jiang, Qin Lv, Li Shang, Yihe Sun, "Large-Scale Battery System Development and User-Specific Driving Behavior Analysis for Emerging Electric-Drive Vehicles". Energies, May, 2011

Jia Wang, Kun Li, Qin Lv, Hai Zhou, Li Shang, "Hybrid Energy Storage System Integration for Vehicles". ACM Int. Sym. Low Power Electronics and Design(*ISLPED*), Aug, 2010

Changyun Zhu, Kun Li, Qin Lv, Li Shang, Robert P. Dick, "iScope: personalized multi-modality image search for mobile devices". The 7th international conference on Mobile systems, applications, and services(*Mobisys*)., June 2009.

Honors and Awards

- Fellowship Award, CUBoulder
- SPOT AWARD, Google.
  - To recognize exceptional employees who exceed expectations. This is rarely given to intern.

- First prize, National Undergraduate Electronic Design Competition. 2005
- Second prize, China Challenge Cup Competition. 2004
- Third prize, National Undergraduate Embedded System Design Competition. 2006

Computer Skills

- Programming Languages: C, Golang, Java, Python, Objective-C
- System Administration: Debian GNU/Linux, Mac OS X, Hadoop/HBase
- Others: HTML, LaTeX, Bash shell script, GNU Make, GDB, Git, Subversion, Vim, MongoDB