SIXUAN DANG

Department of Computer Science
Duke University
sd570@duke.edu, lastfeynman.github.io

AREA OF INTEREST

Information Flow, Static Analysis, Side-channels, Security & Privacy

EDUCATION

Duke University *2023 - present*
Ph.D. in Computer Science
Department of Computer Science

Penn State University *2022 - 2023*
Ph.D. in Computer Science and Engineering
Department of Computer Science and Engineering

University of Electronic Science and Technology of China *2019 - 2022*
M.S. in Software Engineering
School of Computer Science and Engineering
Thesis: Research on Personal Credit Incentives in Sharing Economy

University of Electronic Science and Technology of China *2015 - 2019*
B.Eng. in Software Engineering
School of Information and Software Engineering
Thesis: Research on Document Template Generation Software based on Natural Language Processing

PUBLICATIONS

A Behavior-Aware Scheme for Personalized Credit Computing *2022*
S. Dang, S. Cao
IEEE International Conference on Computer Supported Cooperative Work in Design (CSCWD 2022)

Dynamic Incentive Mechanism Design for Regulation-Aware Systems *2021*
S. Dang, S. Cao, J. Li, X. Zhang JCR: Q1
International Journal of Intelligent Systems IF: 8.709

Regulation-as-a-Service: Model Checking for Decision-Making Behaviors in Price-Sensitive Service Systems *2021*
S. Dang, S. Cao Code: Github
IEEE International Conference on Services Computing (SCC 2021)

A Blockchain-based Access Control and Intrusion Detection Framework for Satellite Communication Systems *2021*
S. Cao, **S. Dang**, Y. Zhang, W. Wang, N. Cheng JCR: Q2
Computer Communications IF: 3.167

An Electric Vehicle Charging Reservation Approach Based on Blockchain *2020*
S. Cao, **S. Dang**, X. Du, M. Guizani, X. Zhang, X. Huang
IEEE Global Communications Conference (Globecom 2020)

PATENTS

Routing Node Selection Method and Apparatus for Cross-Blockchain Transaction *Granted*
S. Cao, Q. Zhang, G. Xiong, **S. Dang**, R. Chen, T. Chen, X. Zhang 2021
China National Intellectual Property Administration (ZL202110942516.8)

Insurance Compensation Apparatus and Method based on Hybrid Smart Contracts *Granted*
S. Cao, Q. Zhang, **S. Dang**, G. Xiong, H. Chen, J. Yang, S. Niu, Z. Yang 2021
China National Intellectual Property Administration (ZL202110835114.8)

An Incentive Mechanism Method for Decision-Making *Granted*
S. Cao, **S. Dang**, Q. Zhang, G. Xiong, J. Yang, H. Chen, S. Niu, Z. Yang 2021
China National Intellectual Property Administration (ZL202110835181.X)

TEACHING ASSISTANT

COMPSCI 390: Programming Language Concepts *Duke 2024Spring*

Data Structure and Algorithm Design (Undergraduate Student) *UESTC 2020Spring*

Network Programming and Blockchain (International Student) *UESTC 2020Spring*

PRESENTATIONS & TALKS

A Behavior-Aware Scheme for Personalized Credit Computing *May 2022*
IEEE International Conference on Computer Supported Cooperative Work in Design (CSCWD 2022)

Regulation-as-a-Service: Model Checking for Decision-Making Behaviors in Price-Sensitive Service Systems *September 2021*
IEEE International Conference on Services Computing (SCC 2021)

Security for Blockchain-based Satellite Communication (Invited Talk) *December 2020*
Annual Symposium of Blockchain Storage and Trade Engineering Laboratory of Sichuan Province

INTERNSHIP

Chengdu Huayp Co., Ltd *2019/03 - 2019/06*
Software Engineer
- Understand basics of natural language processing
- Design and implement a legal document template generation system based on NLP

Chengdu Tianheng-uestc Co., Ltd *2018/06 - 2018/09*
Full-stack Engineer
- Learn to employ Springboot to build website
- Design and implement the security module of the company's core product with Apache Shiro
- Design and implement a document consistency and correctness checking system

SI-TECH Information Technology Co.,Ltd *2017/06 - 2017/07*
Full-stack Engineer
- Design and implement an online music streaming website with native Java servlet and jsp
- Design and implement a distance-based music recommendation system

AWARDS & HONORS

ACM SIGPLAN PAC Grant	*2023*
PLMW@PLDI 2023 Scholarship from ACM SIGPLAN	*2023*
Outstanding Graduate from Sichuan Province	*2021*
Outstanding Graduate from UESTC	*2021*
National Scholarship from Ministry of Education of China (ranked 4/13)	*2021*
The First Prize Scholarship from UESTC (ranked 1/256)	*2021*
The Third Prize Scholarship from UESTC	*2019*

REVIEWER

Computer Communications, International Journal of Intelligent Systems