

SIXUAN DANG

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Department of Computer Science and Engineering
The Pennsylvania State University
State College, PA, USA, 16801

AREA OF INTEREST

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

EDUCATION

Penn State University 2022 - present
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

- Data Structure and Algorithm Design (Undergraduate Student)** *2020 Spring*
 - Evaluate student's implementation of algorithms
 - Help them solve problems in their code
 - Answer their questions
- Network Programming and Blockchain (International Student)** *2020 Spring*
 - Teach students' how to complete the course assignments and projects
 - Answer their questions about socket programming and blockchain
 - Teaching with English

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

REVIEWER

Computer Communications, International Journal of Intelligent Systems

SKILLS

Programming languages:

Java, C, Python, Solidity, Go, L^AT_EX, JavaScript, HTML, SQL

Developing tools and frameworks:

Linux, Git, Hyperledger, Springboot, Vue, MySql

Languages:

Chinese (native), English (fluent).