



Mohammad Javad Amiri

<https://www3.cs.stonybrook.edu/~amiri/>
amiri@cs.stonybrook.edu

[in](#) linkedin | [t](#) twitter | [G](#) scholar

Summary

I am an Assistant Professor in the Department of Computer Science at Stony Brook University. Before joining Stony Brook, I was a postdoctoral researcher in the Computer and Information Science department at the University of Pennsylvania (Penn) working with Prof. Boon Thau Loo. At Penn, I was a member of the NetDB research group, distributed systems lab, and database group. I received my Ph.D. in Computer Science at the University of California, Santa Barbara (UCSB) under the supervision of Prof. Divyakant Agrawal and Prof. Amr El Abbadi. My research mainly lies at the intersection of data management and distributed systems, focusing on distributed transaction processing, consensus protocols, and blockchains.

Education

University of California Santa Barbara (UCSB)	2014-2020
Ph.D. in Computer Science, Department of Computer Science	
▪ Advisors: Prof. Divyakant Agrawal and Prof. Amr El Abbadi	
Iran University of Science and Technology (IUST)	2011-2013
M.S in Software Engineering, School of Computer Engineering	
Iran University of Science and Technology (IUST)	2007-2011
B.S in Computer Engineering, School of Computer Engineering	

Employment

Assistant Professor, Department of Computer Science, Stony Brook University	2023-now
Postdoctoral Researcher, Computer and Information Science Department, University of Pennsylvania	2020-2023
Lecturer, MCIT Online, University of Pennsylvania	2020-2023

Grants

- G1. CNS Core: Small: Towards Internet-scale Permissioned Blockchain Infrastructure for the Mobile Internet
- Boon Thau Loo (PI), Mohammad Javad Amiri (Co-PI), 10/01/2021-09/30/2024, \$ 500,000.

Books

- B1. Blockchain-Enabled Cooperative Distributed Data Management
- Mohammad Javad Amiri, Divyakant Agrawal, Amr El Abbadi
 - Morgan & Claypool Synthesis Lectures on Data Management (to appear).

Selected Publications

P16. Rashnu: Data-Dependent Order-Fairness	2024
▪ Heena Nagda, Shubendra Pal Singhal, Mohammad Javad Amiri, Boon Thau Loo	
▪ The 50th Int. Conf. on Very Large Data Bases (VLDB), PVLDB 17, Guangzhou, China, 2024.	
P15. The Bedrock of Byzantine Fault Tolerance: A Unified Platform for BFT Protocol Analysis, Implementation and Experimentation [Outstanding Paper Award]	2024
▪ Mohammad Javad Amiri, Chenyuan Wu, Divyakant Agrawal, Amr El Abbadi, Boon Thau Loo, Mohammad Sadoghi	
▪ 21st USENIX Symp. on Networked Systems Design and Implementation (NSDI), pp. 371-400 Santa Clara, CA, 2024.	
P14. Towards Full Stack Adaptivity in Permissioned Blockchains	2024
▪ Chenyuan Wu, Mohammad Javad Amiri, Haoyun Qin, Bhavana Mehta, Ryan Marcus, Boon Thau Loo	
▪ The 50th Int. Conf. on Very Large Data Bases (VLDB), PVLDB 17(5), pp. 1073-1080, Guangzhou, China, 2024.	
P13. AdaChain: A Learned Adaptive Blockchain	2023
▪ Chenyuan Wu, Bhavana Mehta, Mohammad Javad Amiri, Ryan Marcus, Boon Thau Loo	
▪ The 49th Int. Conf. on Very Large Data Bases (VLDB), PVLDB 16(8), pp. 2033-2046, Vancouver, Canada, 2023.	
P12. Chemistry behind Agreement	2023
▪ Suyash Gupta, Mohammad Javad Amiri, Mohammad Sadoghi	
▪ The 13th Conf. on Innovative Data Systems Research (CIDR), Amsterdam, The Netherlands, 2023.	
P11. FlexChain: An Elastic Disaggregated Blockchain	2023
▪ Chenyuan Wu, Mohammad Javad Amiri, Jared Asch, Heena Nagda, Qizhen Zhang, Boon Thau Loo	
▪ The 49th Int. Conf. on Very Large Data Bases (VLDB), PVLDB 16(1), pp. 23-36, Vancouver, Canada, 2023.	
P10. Saguaro: An Edge Computing-enabled Hierarchical Permissioned Blockchain	2023
▪ Mohammad Javad Amiri, Ziliang Lai, Liana Patel, Boon Thau Loo, Eric Lo, Wenchao Zhou	
▪ The 39th IEEE Int. Conf. on Data Engineering (ICDE), pp. 259-272, Anaheim, California, 2023.	
P9. Ziziphus: Scalable Data Management Across Byzantine Edge Servers	2023
▪ Mohammad Javad Amiri, Daniel Shu, Sujaya Maiyya, Divyakant Agrawal, Amr El Abbadi	
▪ The 39th IEEE Int. Conf. on Data Engineering (ICDE), pp. 490-502, Anaheim, California, 2023.	
P8. Qanaat: A Scalable Multi-Enterprise Permissioned Blockchain System with Confidentiality Guarantees	2022
▪ Mohammad Javad Amiri, Boon Thau Loo, Divyakant Agrawal, Amr El Abbadi	

- [The 48th Int. Conf. on Very Large Data Bases \(VLDB\)](#), PVLDB 15(11), pp. 2839-2852, Sydney, Australia, 2022.
- P7. Declarative Smart Contracts 2022
 - Haoxian Chen, Gerald Whitters, [Mohammad Javad Amiri](#), Yuepeng Wang, Boon Thau Loo
 - [The ACM European SE Conf. and Symp. on the Foundations of Software Engineering \(ESEC/FSE\)](#), pp. 281-293, Singapore, 2022.
- P6. PReVer: Towards Private Regulated Verified Data 2022
 - [Mohammad Javad Amiri](#), Tristan Allard, Divyakant Agrawal, Amr El Abbadi
 - [25th Int. Conf. on Extending Database Technology \(EDBT\)](#), pp. 454-461, Edinburgh, UK [online], 2022.
- P5. SharPer: Sharding Permissioned Blockchains Over Network Clusters 2021
 - [Mohammad Javad Amiri](#), Divyakant Agrawal, Amr El Abbadi
 - [ACM SIGMOD Int. Conf. on Management of Data](#), pp. 76-88, Xi'an, Shaanxi, China [online], 2021.
- P4. SEPAR: Towards Regulating Future of Work Multi-Platform Crowdfunding Environments with Privacy Guarantees 2021
 - [Mohammad Javad Amiri](#), Joris Duguépéroux, Tristan Allard, Divyakant Agrawal, Amr El Abbadi
 - [The 30th Web Conf. \(WWW\)](#), pp. 1891-1903, Ljubljana, Slovenia [online], 2021.
- P3. SeeMoRe: A Fault-Tolerant Protocol for Hybrid Cloud Environments 2020
 - [Mohammad Javad Amiri](#), Sujaya Maiyya, Divyakant Agrawal, Amr El Abbadi
 - [The 36th IEEE Int. Conf. on Data Engineering \(ICDE\)](#), pp. 1345-1356, Dallas [online], 2020.
- P2. CAPER: A Cross-Application Permissioned Blockchain 2019
 - [Mohammad Javad Amiri](#), Divyakant Agrawal, Amr El Abbadi
 - [The 45th Int. Conf. on Very Large Data Bases \(VLDB\)](#), PVLDB 12(11), pp. 1385-1398, Los Angeles, 2019.
- P1. ParBlockchain: Leveraging Transaction Parallelism in Permissioned Blockchain Systems 2019
 - [Mohammad Javad Amiri](#), Divyakant Agrawal, Amr El Abbadi
 - [The 39th IEEE Int. Conf. on Distributed Computing Systems \(ICDCS\)](#), pp. 1337-1347, Dallas, 2019.

Tutorials

- T5. Distributed Transaction Processing in Untrusted Environments 2024
 - [Mohammad Javad Amiri](#), Divyakant Agrawal, Amr El Abbadi, Boon Thau Loo
 - [ACM SIGMOD Int. Conf. on Management of Data](#), Santiago, Chile, 2024.
- T4. Permissioned Blockchains: Properties, Techniques and Applications 2021
 - [Mohammad Javad Amiri](#), Divyakant Agrawal, Amr El Abbadi
 - [ACM SIGMOD Int. Conf. on Management of Data](#), pp. 2813-2820, Xi'an, Shaanxi, China [online], 2021.
- T3. Blockchain System Foundations [Invited tutorial] 2020
 - [Mohammad Javad Amiri](#), Sujaya Maiyya, Victor Zakhary, Divyakant Agrawal, Amr El Abbadi
 - [The 35th Brazilian Symposium on Databases \(SBBD\)](#), Brazil [online], 2020.
- T2. Modern Large-Scale Data Management Systems after 40 Years of Consensus 2020
 - [Mohammad Javad Amiri](#), Divyakant Agrawal, Amr El Abbadi
 - [The 36th IEEE Int. Conf. on Data Engineering \(ICDE\)](#), pp. 1794-1797, Dallas [online], 2020.
- T1. Database and Distributed Computing Foundations of Blockchains 2019
 - Sujaya Maiyya, Victor Zakhary, [Mohammad Javad Amiri](#), Divyakant Agrawal, Amr El Abbadi
 - [ACM SIGMOD Int. Conf. on Management of Data](#), pp. 2036-2041, The Netherlands, 2019.

Dissertations

- Large-Scale Data Management using Permissioned Blockchains 2020
 - Ph.D. Thesis, University of California Santa Barbara
- Goals Model-driven and Business Process Model-driven Identification and Composition of Web Services 2013
 - M.S. Thesis, Iran University of Science and Technology
- Business Process Model Identification using Goals Model 2011
 - B.S. Thesis, Iran University of Science and Technology

Other Peer-reviewed Publications

- C8. Towards Adaptive Fault-Tolerant Sharded Databases (Extended Abstracts) 2023
 - Bhavana Mehta, Neelesh C A, Prashanth S Iyer, [Mohammad Javad Amiri](#), Boon Thau Loo, and Ryan Marcus
 - [5th Int. Workshop on Applied AI for Database Systems and Applications \(AIDB @ VLDB\)](#), Vancouver, Canada, 2023.
- J5. Markhor: Malware Detection using Fuzzy Similarity of System Call Dependency Sequences 2022
 - Amir Mohammadzade Lajevardi, Saeed Parsa, [Mohammad Javad Amiri](#)
 - [Journal of Computer Virology and Hacking Techniques](#), 18(2), pp. 81-90, 2022.
- C7. Blockchains and Databases: Opportunities and Challenges for the Permissioned and the Permissionless [Invited] 2020
 - Divyakant Agrawal, Amr El Abbadi, [Mohammad Javad Amiri](#), Sujaya Maiyya, Victor Zakhary
 - [24th European Conf. on Advances in Databases and Information Systems \(ADBIS\)](#), LNCS 12245, pp. 3-7, Lyon, France, 2020.
- C6. M-DB: A Continuous Data Processing and Monitoring Framework for IoT Applications 2019
 - Vaibhav Arora, [Mohammad Javad Amiri](#), Divyakant Agrawal, Amr El Abbadi
 - [The 12th IEEE Int. Conf. on Internet of Things \(iThings\)](#), pp. 1096-1105, Atlanta, 2019.
- C5. VIEW: An Incremental Approach to Verify Evolving Workflows 2019
 - [Mohammad Javad Amiri](#), Divyakant Agrawal

- [The 34th ACM/SIGAPP Symposium on Applied Computing \(SAC\)](#), pp. 85-93, Cyprus, 2019.
- C4. On Sharding Permissioned Blockchains [Short Paper] 2019
 - [Mohammad Javad Amiri](#), Divyakant Agrawal, Amr El Abbadi
 - [The Second IEEE Int. Conf. on Blockchain](#), pp. 282-285, Atlanta, 2019.
- C3. Towards Global Asset Management in Blockchain Systems 2019
 - [Victor Zakhary](#), [Mohammad Javad Amiri](#), Sujaya Maiyya, Divyakant Agrawal, Amr El Abbadi
 - [Blockchain and Distributed Ledger Workshop \(BCDL @ VLDB\)](#), Los Angeles, 2019.
- C2. On Similarity of Object-Aware Workflows 2019
 - [Mohammad Javad Amiri](#), Mahnaz Koupaee, Divyakant Agrawal
 - [The 13th IEEE Int. Conf. on Service-Oriented System Engineering \(SOSE\)](#), pp. 84-89, San Francisco, 2019.
- J4. Automatic Test Case Generation from Business Process Models 2019
 - [Arezoo Yazdani](#), [Mohammad Javad Amiri](#), Saeed Parsa, Mahnaz Koupaee
 - [Journal of Requirements Engineering](#), 24(1), pp. 119-132, 2019.
- C1. Object-aware Identification of Microservices [Short Paper] 2018
 - [Mohammad Javad Amiri](#)
 - [The 15th IEEE Int. Conf. on Services Computing \(SCC\)](#), pp. 253-256, San Francisco, 2018.
- J3. Data-driven Business Process Similarity 2017
 - [Mohammad Javad Amiri](#), Mahnaz Koupaee
 - [Journal of IET Software](#) 11(6), pp 309-318, 2017.
- J2. Scalable Structure-free Data Fusion on Wireless Sensor Networks 2017
 - Mahnaz Koupaee, [Mohammad Reza Kangavari](#), [Mohammad Javad Amiri](#)
 - [Journal of Supercomputing](#) 73(12), pp 5105-5124, 2017.
- J1. Multifaceted Service Identification: Process, Requirement and Data 2016
 - [Mohammad Javad Amiri](#), Saeed Parsa, Amir Mohammadzade Lajevardi
 - [Computer Science and Information Systems](#) 13(2), pp 335-358, 2016.

Teaching Experience

- [Instructor, Computer Science Department, Stony Brook University](#) 2024-present
 - CSE 590: Special topics on Distributed and Decentralized Data Management, Spring 2024
 - CSE 535: Distributed Systems, Fall 2024
- [Instructor, Computer and Information Technology \(MCIT\) program, University of Pennsylvania](#) 2020-2023
 - MCIT 582: Blockchain and Cryptography, Spring 2021, Summer 2021, Fall 2021, Spring 2022, Summer 2022, Fall 2022, Spring 2023
- [Instructor, School of Computer Engineering, Iran University of Science and Technology](#) 2011-2014
 - Computer Engineering Lab, Fall 2011, Spring 2012, Fall 2013, Spring 2014
 - Software Engineering Lab, Fall 2012, Spring 2014
- [Teaching Assistant, Department of Computer Science, University of California Santa Barbara](#) 2014-2019
 - CS 8: Introduction to Computer Science, Summer 2019
 - CS 16: Problem Solving with Computers I, Summer 2016
 - CS 24: Problem Solving with Computers II, Fall 2017, Winter 2017, Fall 2018
 - CS 32: Object-oriented Design and Implementation, Fall 2014
 - CS 40: Foundations of Computer Science, Summer 2016, Summer 2017
 - CS 48: Computer Science Project, Winter 2015, Winter 2016, Spring 2016, Spring 2017, Spring 2018
 - CS 130A: Data Structures and Algorithms I, Fall 2015, Winter 2018
 - CS 138: Automata and Formal Languages, Spring 2015, Summer 2018
 - CS 174A: Database Design, Fall 2016
 - CS 174B: Design and Implementation Techniques of Database Systems, Spring 2019
- [Teaching Assistant, School of Computer Engineering, Iran University of Science and Technology](#) 2011-2013
 - Software Engineering 1, Spring 2011, Spring 2012, Spring 2013
 - Software Engineering 2, Fall 2012, Fall 2013
 - Compiler Design, Fall 2012, Fall 2013
 - Advanced Compiler Design, Fall 2012, Fall 2013
 - Software Re-Engineering, Spring 2013

Students

PhD Students

2. Bhavana Mehta, University of Pennsylvania, (2022-present), co-advised with Boon Thau Loo
 - Project: Learned Byzantine Fault-Tolerant Protocols
1. Heena Nagda, University of Pennsylvania, (2022-present), co-advised with Boon Thau Loo
 - Project: Order-fairness in Byzantine Fault-Tolerant Protocols

M.S. Students

14. Rajas Mateti, Stony Brook University (2024-present)
 - Project: A tunable data consistency model

13. Shreyas Gonjari, Stony Brook University (2024-present)
 - Project: A tunable data consistency model
12. Apeksha Bodade, Stony Brook University (2024-present)
 - Project: An adaptive multi-leader consensus protocol
11. Nithin Katla, Stony Brook University (2024-present)
 - Project: An adaptive multi-leader consensus protocol
10. Sudhanshu Kumar, Stony Brook University (2024-present)
 - Project: Decentralized privacy-preserving regulated crowdworking system
9. Akshay Venkatesan, Stony Brook University (2024-present)
 - Project: A scalable adaptive distributed transaction processing system
8. Sayed Bilal Bari, Stony Brook University (2024-present)
 - Project: A scalable adaptive distributed transaction processing system
7. Kanav Talwar, Stony Brook University (2024-present)
 - Project: A scalable adaptive distributed transaction processing system
6. Raunaq Pahwa, Stony Brook University (2024-present)
 - Project: A scalable adaptive distributed transaction processing system
5. Praneeth Komatla, Stony Brook University (2024-present)
 - Project: Full-Stack Adaptivity
4. Madhu Lakkoju, Stony Brook University (2024-present)
 - Project: Full-Stack Adaptivity
3. Siddhartha Malladi, Stony Brook University (2024-present)
 - Project: Full-Stack Adaptivity
2. Omkar Rajwade, Stony Brook University (2024-present)
 - Project: High-performance distributed transaction processing across heterogeneous data centers.
1. Sakshi Sinha, Stony Brook University (2023-present)
 - Project: Order-fairness in Byzantine Fault-Tolerant Protocols

Student Mentoring

12. Chenyuan Wu, University of Pennsylvania, Ph.D. (2021-present)
 - Project: Adaptive Permissioned Blockchains
11. Shubhendra Pal Singhal, University of Pennsylvania, M.S. (2022)
 - Project: Order-fairness in Byzantine Fault-Tolerant Protocols
 - Next: Ph.D. student, Georgia Tech University
10. Lanting Chiang, Emily Saperstein, Lana Rosenthal, Stephanie Walsh, University of Pennsylvania, B.S. (2022)
 - Project: Running Supply chain on Hyperledger Fabric [Senior design Project]
9. Daniel Shu, University of California Santa Barbara, M.S. (2021-2022)
 - Project: Scalable Data Management Across Byzantine Edge Servers
 - Next: Software Development Engineer, Amazon
8. Liana Patel, University of Pennsylvania, B.S. (2020)
 - Project: Implementing a Hierarchical Permissioned Blockchain
 - Next: Ph.D. student, Stanford University
7. Matthew Ho, University of California Santa Barbara, B.S. (2020)
 - Project: Improving Performance of Hyperledger Fabric blockchain System
 - Next: Software Engineer, Microsoft → Software Engineer, Okta → Software Engineer, LinkedIn
6. Mostafa Khoramabadi Arani, Iran University of Science and Technology, M.S. (2013-2015)
 - Thesis: Artifact-centric Inter-organizational Business Process Modeling
 - Next: Software Team Manager, Mahsan
5. Alieh Khayati, Iran University of Science and Technology, M.S. (2012-2014)
 - Thesis: An Abstract Model for Context-aware Dynamic Web Service Composition
4. Fatemeh Vares, Iran University of Science and Technology, M.S. (2012-2014)
 - Thesis: Model-driven Development of Service-oriented Architecture using BPMN and SoaML
 - Next: Software Developer, TOSAN
3. Arezoo Yazdani, University of Tehran, M.S. (2012-2014)
 - Thesis: Automatic Model-based Test Cases Generation for Object-oriented Software
 - Next: Web Developer, Sina Mobile Commerce → Front-End Engineer, Sadad Informatic Corporation
2. Mostafa Khoramabadi Arani, Iran University of Science and Technology, B.S. (2012-2013)
 - Thesis: Services Composition Implementation in Service-oriented Architecture
1. Amir Ebrahimifard, Iran University of Science and Technology, B.S. (2012-2013)
 - Thesis: A Model for Choreography-based Service Composition
 - Next: Ph.D. student at TU Delft, Netherlands → Senior Researcher, Maastricht University

[Ph.D./M.S. Committee Membership](#)

- Soundarya Venkatesh, Stony Brook University, M.S., 2024
- Chenyuan Wu, University of Pennsylvania, Ph.D., 2024
- Lan Lu, University of Pennsylvania, Ph.D., 2024

Services

[Organizing Committee/Panel Member](#)

- Program chair, Sixth International Workshop on Foundations and Applications of Blockchain (FAB), co-located with VLDB, 2024
- Panel member, NSF III (Small) Program, 2023
- Demo and Workshops Local Arrangements Chair, ACM SIGMOD *Int. Conf.* on Management of Data, 2022
- Guest Editor, Distributed and Parallel Databases Journal, Special Issue on Blockchain, 2021
- Panelist, Blockchain and Database research community Panel, SIGMOD Conference, 2021
- Judge, [MCIT Online Side Project Competition \(SPARC\)](#), University of Pennsylvania, 2021
- Panel member, NSF Small Business Innovation Research (SBIR) Program, 2019

[Program Committee](#)

- *Int. Conf.* on Very Large Data Bases (VLDB), 2022, 2024, 2025
- ACM SIGMOD *Int. Conf.* on Management of Data, 2022, 2025
- *Int. Conf.* on Extending Database Technology (EDBT), 2023, 2024
- IEEE *Int. Conf.* on Data Engineering (ICDE), 2023, 2024 (Demos)
- Private, Secure, and Trustworthy IoT Data Management (ASTRIDE) Workshop @ ICDE, 2023
- ACM *Int. Web Search and Data Mining Conf.* (WSDM), 2023
- The ACM *Web Conf.* (WWW), 2022
- IEEE *Int. Conf.* on Big Data, 2021
- *Int. Workshop* on Blockchain and Data Management (BlockDM) @ ICDE, 2021
- IEEE *Int. Conf.* on Blockchain (Blockchain), 2020, 2021
- Workshop on Scalable and Resilient Infrastructures for Distributed Ledgers (SERIAL), 2020
- *Int. Workshop* on Advances in Artificial Intelligence for Blockchain (AIChain), 2020

[Conference/Journal Reviewer](#)

- World Wide Web, 2023
- Transactions on Computers, 2023
- Distributed and Parallel Databases, 2023
- The VLDB Journal, 2021, 2023
- National *Conf.* on Communications (NCC), 2021
- Journal of King Saud University - Computer and Information Sciences, 2021
- *Int. Conf.* on Very Large Data Bases (VLDB), 2020
- ACM Computing Survey (CSUR), 2020, 2021
- Financial Innovation (FIN), 2020
- IEEE Computer, 2020
- *Int. Journal* of Computers and Applications, 2020
- IEEE Access, 2019, 2020
- Sustainability, 2020
- *Int. Journal* on Software and Systems Modeling (SoSyM), 2019
- IET Software, 2018, 2019
- Journal of Supercomputing, 2018, 2019
- IEEE Software, 2017
- *Int. Journal* of Software Engineering and Knowledge Engineering, 2016

[External Reviewer](#)

- IEEE *Int. Conf.* on Data Engineering (ICDE), 2021
- *Int. Conf.* on Database Theory (ICDT), 2021
- Symposium on Foundations and Applications of Blockchain (FAB), 2021
- *Int. Conf.* on Very Large Data Bases (VLDB), 2019
- *Int. Conf.* on Extending Database Technology (EDBT), 2015, 2016, 2017, 2019
- ACM *Int. Conf.* on Advances in Geographic Information Systems (SIGSPATIAL), 2019
- IEEE Access, 2019
- *Int. Conf.* on Networked Systems (NETYS), 2019, 2020
- *Int. Conf.* on Service-Oriented Computing (ICSOC), 2016, 2017
- Chinese *Conf.* on Business Process Management, 2017
- ACM Symposium on Principles Of Database Systems (PODS), 2016
- *Int. Conf.* on Business Process Management (BPM), 2016
- *Int. Journal* of Cooperative Information Systems (IJCIS), 2015

[Student Committees Member](#)

- President of the Iranian Graduate Students Association, UCSB, 2015-2017

- President of the Scientific Association, School of Computer Engineering, IUST, 2012-2013
- Member of the Central Student Scientific Association, IUST, 2012-2013
- Member of the Students' Union, IUST, 2009-2011
- Managing editor of Roshana Magazine, 2009-2010

Honors and Awards

Outstanding Paper Award, NSDI	2024
Student Scholarship Award, The Web <i>Conf.</i>	2021
NSF Travel Grant Award, VLDB <i>Conf.</i>	2019
Travel Grant Award, ICDCS <i>Conf.</i>	2019
Research Fellowship, Department of Computer Science, UCSB	2019
Outstanding Teaching Assistant Award, Department of Computer Science, UCSB	2018
Research Project Award, Department of Computer Science, UCSB	2017
Outstanding Teaching Assistant Award, School of Computer Engineering, IUST	2013
Direct Admission to the Graduate School, IUST	2011

Posters, Presentations, and Talks

The Bedrock of BFT: A Unified Platform for BFT Protocol Analysis, Implementation and Experimentation	April 2024
▪ NSDI'24, Santa Clara, CA	
Saguaro: An Edge Computing-enabled Hierarchical Permissioned Blockchain	April 2023
▪ ICDE'23, Anaheim, CA [online]	
Ziziphus: Scalable Data Management Across Byzantine Edge Servers	April 2023
▪ ICDE'23, Anaheim, CA [online]	
Large-Scale Collaborative Data Management in Untrusted Environments	December 2022
▪ Invited Talk, Singapore Blockchain Innovation Programme (SBIP) [online]	
Towards Regulating Large-Scale Multi-Enterprise Environments with Privacy Guarantees	October 2022
▪ HPTS'22, Pacific Grove, CA	
Qanaat: A Scalable Multi-Enterprise Permissioned Blockchain System with Confidentiality Guarantees	September 2022
▪ VLDB'22, Sydney, Australia	
PRVer: Towards Private Regulated Verified Data	March 2022
▪ EDBT'22, Edinburgh, UK [online]	
Permissioned Blockchains: Properties, Techniques and Applications	June 2021
▪ SIGMOD'21, Xi'an, Shaanxi, China [online]	
SharPer: Sharding Permissioned Blockchains Over Network Clusters	June 2021
▪ SIGMOD'21, Xi'an, Shaanxi, China [online]	
SEPAR: Towards Regulating Multi-Platform Crowdfunding Environments with Privacy Guarantees	April 2021
▪ WWW'21, Ljubljana, Slovenia [online]	
Permissioned Blockchains: Techniques and Applications	May 2021
▪ Guest lecture, University of California, Irvine [online]	
Database and Distributed Computing Foundations of Blockchains	September 2020
▪ Invited Tutorial, SBBB'20, Brazil [online]	
Large-Scale Data Management using Permissioned Blockchains	June 2020
▪ Ph.D. Defense, UCSB [online]	
SeeMoRe: A Fault-Tolerant Protocol for Hybrid Cloud Environments	April 2020
▪ ICDE'20, Dallas [online]	
Modern Large-Scale Data Management Systems after 40 Years of Consensus	April 2020
▪ ICDE'20, Dallas [online]	
Permissioned Blockchains: Properties, Techniques, and Applications	March 2020
▪ CS Summit, UCSB	
Cross-Enterprise Large-Scale Data Management using Permissioned Blockchains	March 2020
▪ Ph.D. Proposal, UCSB	
Permissioned Blockchains: Performance and Confidentiality	January 2020
▪ Invited Talk, Penn, DSL Seminar	
On Performance of Permissioned Blockchains	November 2019
▪ Invited Talk, University of California, Berkeley	
On Consensus in Cloud Environments and Blockchain Systems	October 2019
▪ HPTS'19, Pacific Grove, CA [Poster]	
CAPER: A Cross-Application Permissioned Blockchain	September 2019
▪ VLDB'19, Los Angeles	
ParBlockchain: Leveraging Transaction Parallelism in Permissioned Blockchain Systems	July 2019
▪ ICDCS'19, Dallas	
On Sharding Permissioned Blockchains	July 2019
▪ IEEE Blockchain'19, Atlanta	
VIEW: An Incremental Approach to Verify Evolving Workflows	April 2019

<ul style="list-style-type: none"> ▪ ACM/SIGAPP SAC'19, Cyprus [online] 	April 2019
On Similarity of Object-Aware Workflows	
<ul style="list-style-type: none"> ▪ IEEE SOSE'18, San Francisco 	October 2018
Data Stream Processing: Models and Applications	
<ul style="list-style-type: none"> ▪ SoCalDB'18, San Diego [Poster] 	October 2018
Fault-Tolerant Global-Scale Data Management	
<ul style="list-style-type: none"> ▪ SoCalDB'18, San Diego [Poster] 	July 2018
Object-aware Identification of Microservices	
<ul style="list-style-type: none"> ▪ IEEE SCC'18, San Francisco 	June 2016
Business Processes: Evolution and Verification	
<ul style="list-style-type: none"> ▪ Ph.D. Candidacy, UCSB 	March 2014
Workflow-based Test Case Generation: An Automatic approach	
<ul style="list-style-type: none"> ▪ CSICC'14, Tehran 	March 2014
Service Operations Replication to improve the quality of highly coupled Services	
<ul style="list-style-type: none"> ▪ CSICC'14, Tehran 	November 2013
Business Processes Model-driven Identification and Composition of Web Services	
<ul style="list-style-type: none"> ▪ M.S. Thesis, IUST 	March 2013
Goals Model- and Business Process Model-driven Service Identification	
<ul style="list-style-type: none"> ▪ CSICC'13, Tehran 	March 2013
Goals Model-based Creating and Optimizing of the Requirements Model	
<ul style="list-style-type: none"> ▪ CSICC'13, Tehran, [Poster] 	November 2011
Extracting Business Process Models using Goals Model	
<ul style="list-style-type: none"> ▪ B.S. Thesis, IUST 	