

# Publications

James B D Joshi

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## **Book**

1. James B. D. Joshi et al. "Network Security: Know It All," May, 2008 (Contributor).
2. Co-Editor of Book titled: "Information Assurance: Survivability and Security in Networked Systems," Published in 2007 by Elsevier, Inc. Editors: Yi Qian, James Joshi, David Tipper, Prashant Krishnamurthy.
3. James B. D. Joshi, "A Generalized Temporal Role Based Access Control Model for Developing Secure Applications", PhD Thesis, Purdue University, August, 2003.

## **R&D National Strategies contributions**

1. **"National Strategy to Advance Privacy Preserving Data Sharing and Analytics,"** Unveiled in the 2<sup>nd</sup> Summit for Democracy on March 30, 2023 (Served as Co-Chair of NITRD Fast-Track Action Committee responsible for this document) - published
2. **"National Topline Objective for Digital Assets R&D,"** Unveiled in the 2<sup>nd</sup> Summit for Democracy on March 30, 2023 (Served/serving as Co-Chair of NITRD Fast-Track Action Committee responsible for this document) - published
3. **"National Strategy for Digital Assets R&D,"** (as Co-Chair of FTAC till Aug, 2023)
4. **"Federal Cybersecurity R&D National Strategy"** member of task force - in progress.
5. **"National Privacy Research Strategy"** member of task force for revision of 2016 strategy.

## **Book Chapter**

1. Nuray Baltaci Akhuseyinoglu, James Joshi, "Access Control Approaches for SmartCities," In: Al-Turjman F, Imran M, Editors. *IoT Technologies in Smart-Cities: From sensors to big data, security and trust*. UK: The Institution of Engineering and Technology (IET); 2019
2. Xuelian Long, Lei Jin, James Joshi, "Information Privacy," *Innovation in Information Security (Vol 4)*, World Scientific Publishing Co. Pte. Ltd, 2018.
3. H. Takabi, S.T. Zargar, and J. Joshi, "Mobile Cloud Computing and Its Security, Privacy and Trust Management Challenges," in *Security, Privacy, Trust, and Resource Management in Mobile and Wireless Communications*, D. B. Rawat, B.B. Bista, and G. Yan Ed. IGI Global, 2014. doi:10.4018/978-1-4666-4691-9, 2014
4. Hassan Takabi and James B. D. Joshi. Policy Management in Cloud Computing Environment: Challenges and Approaches. in *Security Engineering for Cloud Computing: Approaches and Tools*, Editors: D. G. Rosado, D. Mellado, E. Fernandez-Medina, and M. Piattini, IGI Global, September 2012.

5. Hassan Takabi and James B. D. Joshi, Gail-Joon Ahn, Security and Privacy in Cloud Computing: Towards a Comprehensive FrameworkService-Oriented Methodology and Technologies for Cloud Computing", in *Principles, Methods and Service-oriented Approaches for Cloud Computing*, Editors: X. Yang and L. Liu, IGI Global, January 2013.
6. Mohd Anwar, Amirreza Masoumzadeh and James Joshi, "Security and Privacy in Location Based Services," *Location Based Services*; Advanced Location-Based Technologies and Services, H. A. Karimi, Ed. CRC Press, 2013, pp. 235–264.
7. Yue Zhang, James Joshi, "Access Control and Trust Management for Emerging Multidomain Environments," in *Annals of Emerging Research in Information Assurance, Security and Privacy Services*, Editors: S. Upadhyaya, R. O. Rao 2009.
8. Yue Zhang, James Joshi, "Temporal Access Control," *Encyclopedia of Database Systems*, Editors-in-Chief: Ling Liu, M. Tamer Özsu, Springer, 2009.
9. Yue Zhang, James Joshi, "Role based Access Control", *Encyclopedia of Database Systems*, Editors-in-Chief: Ling Liu, M. Tamer Özsu Springer, 2009.
10. Yue Zhang, James B. D. Joshi, "ANSI/INCITS RBAC Standard." *Encyclopedia of Database Systems*, Editors-in-Chief: Ling Liu, M. Tamer Özsu, Springer, 2009
11. Yue Zhang, James B. D. Joshi, "GEO-RBAC Model," *Encyclopedia of Database Systems*, Editors-in-Chief: Ling Liu, M. Tamer Özsu, Springer, 2009
12. Yue Zhang, James B. D. Joshi, "Administration Model for RBAC," *Encyclopedia of Database Systems*, Editors-in-Chief: Ling Liu, M. Tamer Özsu, Springer, 2009
13. James B. D. Joshi, Mei-Ling Shyu, Shu-Ching Chen, Walid Aref, Arif Ghafoor, "A Multimedia-Based Threat Management and Information Security Framework," in *Multimedia Technologies: Concepts, Methodologies, Tools, and Applications* (3 Volumes) Edited By: Mahbubur Rahman Syed, Minnesota State University, Mankato, USA, June, 2008
14. James B. D. Joshi, Siqing Du, Saubhagya R Joshi, "A Trust Based Access Control Management Framework for a Secure Grid Environment" in Book titled: *Security in Distributed, Grid, and Pervasive Computing*, Edited by Dr. Yang Xiao, to be published by Auerbach Publications, CRC Press 2007.
15. James B. D. Joshi, S. R. Joshi, and S. M. Chandran, "Information Security Issues and Challenges," in *Encyclopedia of Digital Government*, 2006.
16. James B. D. Joshi, S. R. Joshi, and S. M. Chandran, "Identity Management and Privacy Issues," in *Encyclopedia of Digital Government*, 2006.
17. James B. D. Joshi, S. M. Chandran, A. Ghafoor, and W. G. Aref, "Survivability Issues and Challenges," in *Encyclopedia of Digital Government*, 2006.
18. James B.D. Joshi, Mei-Ling Shyu, Shu-Ching Chen, Walid Aref, Arif Ghafoor, "A Multimedia-Based Threat Management and Information Security Framework," *Web and Information Security* (editors: Elena Ferrari, Bhavani Thuraisingham), IDEA Group, 2005.

19. James B. D. Joshi, Arif Ghafoor, Walid Aref, Eugene H. Spafford, "Digital Government Security and Privacy Challenges," William J. McIver, Jr. & Ahmed K. Elmagarmid (eds) *Advances in Digital Government: Technology, Human Factors, & Policy*. Boston, Kluwer, 2002, Chapter 7, pp. 121-136.

### ***Special Issue Guest Editor***

1. Mei-Ling Shyu, Surya Nepal, Valerie Issarny, James Joshi; "Special Issue on Services Computing for COVID-19 and Future Pandemics," IEEE Transactions on Services Computing, 06/17/2022
2. Schahram Dustdar, Surya Nepal, James Joshi. Special Section on Advances in Internet-based Collaborative Technologies, ACM Transactions on Internet Technology, Vol. 19, No. 3, Article 37e., November 2019.
3. Mei-Ling Shyu, James Joshi, Qiong Liu: Guest Editors'. Int. J. Semantic Computing 9(2): 139-142 (2015)
4. Chengcui Zhang, Elisa Bertino, Bhavani M. Thuraisingham, James B. D. Joshi: Guest editorial: Information reuse, integration, and reusable systems. Information Systems Frontiers 16(5): November 2014, Volume 16, Issue 5, pp 749-752
5. Lakshmish Ramaswamy, Barbara Carminati, James B. D. Joshi, Calton Pu: Editorial: Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2012). MONET 19(5): October 2014, Volume 19, Issue 5, p 634
6. Barbara Carminati, Lakshmish Ramaswamy, Anna Cinzia Squicciarini, James Joshi, Calton Pu: Preface. Int. J. Cooperative Inf. Syst. 23(2) (2014)
7. Lakshmish Ramaswamy, Barbara Carminati, Lujo Bauer, Dongwan Shin, James Joshi, Calton Pu, Dimitris Gritzalis: Editorial. Computers & Security 41: 1-2 (June, 2014)
8. James Caverlee, Calton Pu, Dimitrios Georgakopoulos, James Joshi: Editorial for CollaborateCom 2011 Special Issue. MONET 18 (2): 235-236 (2013)
9. Weisong Shi, James Joshi, Tao Zhang, Eun K. Park, Juan Quemada: ACM/Springer Mobile Networks and Applications (MONET) Special Issue on "Collaborative Computing: Networking, Applications and Worksharing". MONET 17(3): 376-377 (2012)
10. James Joshi, Elisa Bertino, Calton Pu, Heri Ramampiaro: ACM/Springer Mobile Networks and Applications (MONET) Special Issue on "Collaborative Computing: Networking, Applications and Worksharing". MONET 17(3): 325-326 (2012)
11. Songqing Chen, Le Gruenwald, James Joshi, Karl Aberer: ACM/Springer Mobile Networks and Applications (MONET) Special Issue on "Collaborative Computing: Networking, Applications and Worksharing". Mobile Networks and Applications, 17 (4). pp. 506-507; (2012)
12. James Joshi, Barbara Carminati: Guest Editorial SACMAT 2009 and 2010. ACM Transactions on Information Systems Security, 14(3): 22 (2011).

13. Dimitris Gritzalis and James Joshi (Editors); Special Issue on Access Control Methods and Technologies, Computer and Security, Volume 30, Issues 2–3, Pages 89-170 (March–May 2011)
14. Mehmet Kaya, James B. D. Joshi, Mei-Ling Shyu: Guest Editorial - Introduction to the *Special Issue on Information Reuse and Integration*. JIKM 10(3): (2011)

### ***Refereed Journal /Articles***

1. Runhua Xu, Chao Li, James Joshi, "Blockchain-based Transparency Framework for Privacy Preserving Third-party Services," IEEE TDSC, June, 2022
2. Runhua Xu, James Joshi, Chao Li, "*NN-EMD: Efficiently Training Neural Network Using Encrypted Multi-sourced Datasets*," IEEE TDSC; April, 2021
3. Leila Karimi, Maryam Aldairi; James Joshi, Mai Abdelhakim, "An Automatic Attribute Based Access Control Policy Extraction from Access Logs," *IEEE Transactions on Dependable and Secure Computing*, Jan 25, 2021
4. Runhua Xu, James Joshi, "Trustworthy and Transparent Third-Party Authority," *ACM Transactions on Internet Technology (TOIT)*, 2020.
5. Nuray Baltaci Akhuseyinoglu, James Joshi, "A Constraint and Risk-aware Approach to Attribute-based Access Control for Cyber-Physical Systems," *Springer Computers & Security*, 2020.
6. Runhua Xu, James Joshi, Prashant Krishnamurthy, "An Integrated Privacy Preserving Attribute Based Access Control Framework Supporting Secure Deduplication," *IEEE Transactions on Dependable and Secure Computing*, 2019
7. Nathalie Baracaldo, Balaji Palanisamy, James Joshi, "*G-SIR: An Insider Attack Resilient Geo-Social Access Control Framework*," *IEEE Transactions on Dependable and Secure Computing*, 16(1): 84-98 (2019)
8. Leming Zhou, Bambang Parmanto, James Joshi, "Development and Evaluation of a New Security and Privacy Track in a Health Informatics Graduate Program: Multidisciplinary Collaboration in Education," *JMIR Medical Education*, 2018;4(2):e19
9. Lei Jin, Chao Li, Balaji Palanisamy, James Joshi, "*k-Trustee: Location Injection Attack-resilient Anonymization for Location Privacy*" Elsevier Computer & Security, Volume 78, September 2018, Pages 212-230
10. Louise K. Comfort and James Joshi (2017) Scalability and Sustainability in Uncertain Environments: Transition to Recovery from the 2015 Gorkha, Nepal, Earthquakes. *Earthquake Spectra*: December 2017, Vol. 33, No. S1, pp. S385-S401.
11. Mohd Anwar, James Joshi, Joseph Tan, "Anytime, anywhere access to secure, Privacy-aware Healthcare Services: Issues, Approaches & Challenges," *Elsevier Health Policy and Technology journal*.
12. Rose E. Constantino, Betty Braxter, Dianxu Ren, Joseph David Burroughs, Willa Marlene Doswell, Linden Wu, Juhae Grace Hwang, Mary Lou Klem, James B D Joshi, W. Brian

Greene "Comparing Online with Face-to-Face HELPP Intervention in Women Experiencing Intimate Partner Violence," *Issues in Mental Health Nursing* 00:1–9, 2015

13. Jianfeng Lu, James B. D. Joshi, Lei Jin, Yiding Liu, "Towards Complexity Analysis of User Authorization Query Problem in RBAC" *Elsevier Computer & Security*, Volume 48, February 2015, Pages 116–130.
14. Lei Jin, Xuelian Long, Ke Zhang, Yu-Ru Lin, James B.D. Joshi, "Characterizing Users' Check-in Activities Using Their Scores in a Location-based Social Network," Springer Multimedia Systems, 2014.
15. Youna Jung, James B. D. Joshi: CPBAC: Property-based access control model for secure cooperation in online social networks. *Computers & Security* 41: 19-39 (2014)
16. Nathalie Baracaldo, James Joshi: An adaptive risk management and access control framework to mitigate insider threats. *Computers & Security* 39: 237-254 (2013)
17. S.T. Zargar, J. Joshi, and D. Tipper, "A Survey of Defense Mechanisms Against Distributed Denial of Service (DDoS) Flooding Attacks," *IEEE Communications Surveys & Tutorials*, vol. PP, no. 99, pp. 1-24. (Published Nov 12, 2013) (Early Access-online Mar. 28, 2013)
18. Lei Jin, James B. D. Joshi, Mohd Anwar, "Mutual-friend based attacks in social network systems," *Computers & Security* 37: 15-30 (2013)
19. Amirreza Masoumzadeh and James Joshi, "Top Location Anonymization for Geosocial Network Datasets," *Transactions on Data Privacy*, vol. 6, no. 1, pp. 107-126, 2013.
20. Hassan Takabi, James B. D. Joshi, "Semantic-based Policy Management for Cloud Computing Environments," *International Journal of Cloud Computing* 1(2/3): 119-144 (2012)
21. Amirreza Masoumzadeh and James Joshi, "Preserving Structural Properties in Edge-Perturbing Anonymization Techniques for Social Networks," *IEEE Transactions on Secure and Dependable Computing* 9(6): 877-889 (2012) [Amirreza received **Catherine Ofjesh Orner Award** for this paper at School of Information Sciences, University of Pittsburgh]
22. Youna Jung and James B.D. Joshi, "CRiBAC: Community based Role interaction Access Control Model", *Computers & Security*, Elsevier, 31(4): 497-523 (2012)
23. Youna Jung, Minsoo Kim, Amirreza Masoumzadeh, James B.D Joshi, "A Survey of Security for Multiagent Systems", *Artificial Intelligence Review*, Springer Netherlands, Doi: 10.1007/s10462-011-9228-8
24. Lei Jin, Hassan Takabi, James B. D. Joshi, "Analyzing Security and Privacy Issues of Using E-mail Address as Identity" *International Journal Information Privacy, Security and Integrity*, Vol. 1, No. 1, 2011
25. Amirreza Masoumzadeh and James Joshi, "Ontology-Based Access Control for Social Network Systems," , *International Journal Information Privacy, Security and Integrity*, Vol. 1, No. 1, 2011

26. Xuelian Long, James Joshi, "BaRMS: A Bayesian Reputation Management Approach for P2P Systems, *Journal of Information & Knowledge Management*, Vol: 10, No: 3, pp 273-283 (2011)
27. Hassan Takabi, James Joshi, Gail-Joon Ahn, "Security and Privacy Challenges in Cloud Computing Environments," *IEEE Security and Privacy*, Jan-Feb, 2011.
28. Carlos E. Caicedo, James Joshi, Summit Tuladhar, "IPv6 Security Challenges," Vol(42), Issue(2), (Feb, 2009), *IEEE Computer*, Page(s): 36-42.
29. Yue Zhang, James Joshi, "SRBAC07: A Scoped Administration Model for RBAC with Hybrid Hierarchy," *Journal of Information Assurance and Security* 2007 (Volume 2, issue 4)
30. James, B.D. Joshi, Elisa Bertino, Arif Ghafoor and Yue Zhang, "Formal Foundations for hybrid hierarchies in GTRBAC", *ACM Transactions on Information and System Security (TISSEC)*, Vol. 10, No. 4, Jan, 2008, pp. 1-39.
31. Basit Shafiq, James B. D. Joshi, Elisa Bertino, Arif Ghafoor, "Secure Interoperation in a Multi-Domain Environment Employing RBAC Policies," *IEEE Transactions on Knowledge and Data Engineering*. Vol. 17, No. 11, Pages 1557 - 1577, Nov. 2005.
32. Rafae Bhatti, James B. D. Joshi, Basit Shafiq, Elisa Bertino, Arif Ghafoor, "X-GTRBAC Admin: A Decentralized Administration Model for Enterprise Wide Access Control," *ACM Transactions on Information and System Security (TISSEC)*, Vol. 8 No. 4, Nov, 2005.
33. James B. D. Joshi, Elisa Bertino, Arif Ghafoor, "Analysis of Expressiveness and Design Issues for a Temporal Role Based Access Control Model," *IEEE Transactions on Dependable and Secure Computing*, April, 2005.
34. James B. D. Joshi, Elisa Bertino, Usman Latif, Arif Ghafoor, "Generalized Temporal Role Based Access Control Model," *IEEE Transactions on Knowledge and Data Engineering*, Vol 17, No. 1 pages 4-23, Jan, 2005.
35. Rafae Bhatti, James B. D. Joshi, Elisa Bertino, Arif Ghafoor, "X-GTRBAC: An XML-based Policy Specification Framework and Architecture for Enterprise-Wide Access Control," *ACM Transactions on Information and System Security* Vol. 8, No. 2, Pages 187-227, May 2005.
36. Rafae Bhatti, James B. D. Joshi, Elisa Bertino, Arif Ghafoor, "XML-based Specification for Web-Services Document Security", *IEEE Computer*, Vol. 37, No. 4, April, 2004.
37. James B. D. Joshi, Rafae Bhatti, Elisa Bertino, Arif Ghafoor, "An Access Control Language for Multidomain Environments," *IEEE Internet Computing*, Nov-Dec 2004, pages 40-50.
38. James B. D. Joshi, Kevin Li, Husni Fahmi, Basit Shafiq, Arif Ghafoor, "A Model for Secure Multimedia Document Database System in a Distributed Environment," *IEEE Transactions on Multimedia: Special Issue on Multimedia Databases*, Vol. 4, No. 2, June, 2002, pp. 215-234.
39. James B. D. Joshi, Arif Ghafoor, Walid Aref, Eugene H. Spafford, "Digital Government Security Infrastructure Design Challenges," *IEEE Computer*, Vol. 34, No. 2, February, 2001, pp 66-72.

40. James B. D. Joshi, Walid G. Aref, Arif Ghafoor and Eugene H. Spafford, "Security Models for Web-Based Applications," *Communications of the ACM*, Vol. 44, No. 2, February, 2001, pp. 38-44.

#### ***Submitted/Under Preparation/arXiv***

1. Xu, Runhua; Li, Bo; Li, Chao; Joshi, James; Ma, Shuai; Li, Jianxin, "TAPFed: Threshold Secure Aggregation for Privacy-Preserving Federated Learning," IEEE TDSC (**Major Revision**).
2. Leila Karimi, Mai Abdelhakim, James Joshi, "Adaptive ABAC Policy Learning: A Reinforcement Learning Approach," IEEE TDSC (**Major Revision**);
3. Runhua Xu, Nathalie Baracaldo, James Joshi, "Privacy-Preserving Machine Learning System: Methods, Challenges and Directions," arXiv,
4. Maryam Aldairi<sup>1</sup>, Laila Karimi, James Joshi, "Multi-Dimensional Trust Modeling for Unsupervised Insider Threat Detection" to be submitted to Computers and Security.

#### ***Refereed Symposium/Conferences/Workshop***

1. Runhua Xu, Nathalie Baracaldo, Yi Zhou, Ali Anwar, James Joshi, Heiko Ludwig, "FedV: Privacy-Preserving Federated Learning over Vertically Partitioned Data," AISec2021 Workshop at ACM CCS, Nov, 2021
2. Runhua Xu, James Joshi, "Revisiting Secure Computation Using Functional Encryption: Opportunities and Research Directions," 2020 Second IEEE International Conference on Trust, Privacy and Security in Intelligent Systems and Applications (TPS-ISA), Oct, 2020.
3. Maryam Aldairi, Leila Karimi, James Joshi, "A Trust Aware Unsupervised Learning Approach for Insider Threat Detection," 2019 IEEE 20th International Conference on Information Reuse and Integration, 2019.
4. Runhua Xu, James Joshi and Chao Li, "*CryptoNN*: Training Neural Networks over Encrypted Data," IEEE ICDCS 2019 in Dallas, Texas, US, July 7th – July 10th, 2019.
5. LeRoy Carr III, Anthony Newtonson, James Joshi, "Towards modernizing the Future of American Voting," (Vision paper – Invited), IEEE CIC 2018, Philadelphia, PA, USA.
6. Leila Karimi, James Joshi, "An Unsupervised Learning Based Approach for Mining Attribute Based Access Control Policies," IEEE BigData, Dec 10-13, 2018, Seattle, WA, USA,
7. Runhua Xu, Balaji Palanisamy and James Joshi. QueryGuard: Privacy-preserving Latency-aware Query Optimization for Edge Computing," IEEE TrustCom 2018 (August), New York, USA.
8. Maryam Karimi, Prashant Krishnamurthy, James Joshi, David Tipper, "Mining Historical Data towards Interference Management in Wireless Proceedings," of the 13th ACM Symposium on QoS and Security for Wireless and Mobile Networks: 81-88, November 21 - 25, 2017

9. Nuray Baltaci Akhuseyinoglu, James Joshi: "A Risk-Aware Access Control Framework for Cyber-Physical Systems." CIC 2017 (Oct, 2017): 349-358.
10. Leila Karimi, James Joshi: "Multi-Owner Multi-Stakeholder Access Control Model for a Healthcare Environment." CIC 2017 (Oct, 2017): 359-368
11. Chao Li, Balaji Palanisamy, James Joshi, "Differentially Private Trajectory Analysis for Points-of-Interest Recommendation, IEEE BigData Congress," 2017 (June) **BEST PAPER AWARD**
12. Runhua Xu, James Joshi, Prashant Krishnamurthy, David Tipper, "Insider Threat Mitigation in Attribute Based Encryption", National Cyber Summit 2017.
13. Runhua Xu, James B. D. Joshi: Enabling Attribute Based Encryption as an Internet Service. IEEE CIC 2016: 417-425 (Nov, 2016)
14. Leila Karimi, James Joshi: Multi-Owner Multi-Stakeholder Access Control Model for a Healthcare Environment. CIC 2017: 359-368.
15. Yue Su, Ziyi Lan, Yu-Ru Lin, Louise K. Comfort, James Joshi: Tracking Disaster Response and Relief Following the 2015 Nepal Earthquake. CBig Workshop, IEEE CIC 2016: 495-499
16. Chao Li, Balaji Palanisamy, James Joshi, SocialMix: Supporting Privacy-Aware Trusted Social Networking Services. *IEEE ICWS 2016*: San Francisco, CA: 115-122
17. Runhua Xu, James B. D. Joshi: An Integrated Privacy Preserving Attribute Based Access Control Framework. *IEEE CLOUD 2016*, San Francisco, CA: 68-76.
18. Runhua Xu, James B. D. Joshi: Enabling Attribute Based Encryption as an Internet Service. *IEEE CIC 2016*: 417-425, Pittsburgh, USA (Invited), November 2-4, 2016.
19. Y. Su, Z. Lan, Y-R Lin, L.K. Comfort and J. Joshi, Tracking Disaster Response and Relief Efforts following the 2015 Nepal Earthquake International Workshop on Collaborative Internet Computing for Disaster Management (CIC-DM), Pittsburgh, PA, November 2-4, 2016.
20. Leila Karimi, Balaji Palanisamy, James Joshi: A Dynamic Privacy Aware Access Control Model for Location Based Services. Workshop in IEEE CIC 2016: 554-557, Pittsburgh, PA, November 2-4, 2016.
21. L. K. Comfort, J. B. D. Joshi, F. Yuldashev, Scalability and Sustainability in Uncertain Environments: Recovery from the Nepal Earthquakes, April 25 and May 12, 2015, presented by L.K. Comfort at the 2015 American Geophysical Union (AGU) conference in San Francisco, CA December 14-18, 2015. [Poster]
22. Nathalie Baracaldo, Balaji Palanisamy, James Joshi "Geo-Social-RBAC: A Location-based Socially Aware Access Control Framework" The 8th International Conference on Network and System Security (NSS 2014). Lecture Notes in Computer Science Volume 8792, 2014, pp 501-509
23. Lei Jin, Hassan Takabi, Xuelian Long, James B.D. Joshi, "Exploiting Users' Inconsistent Preferences in a Social Network System to Discover Private Friendship Links," 2014



Workshop on Privacy in the Electronic Society (WPES), Held in conjunction with CCS 2014, Nov 3-7, 2014

24. Lei Jin, Balaji Palanisamy, James B.D. Joshi, "Compromising Cloaking-based Location Privacy Preserving Mechanisms with Location Injection Attacks," 21st ACM Conference on Computer and Communications Security (Poster), Nov 3-7, 2014.
25. Balaji Palanisamy, Sheldon Sensenig, James B. D. Joshi, Rose Constantino, LEAF: A privacy-conscious social network-based intervention tool for IPV survivors. IEEE IRI 2014 (Aug, 2014): 138-146
26. Saman Taghavi Zargar, James B. D. Joshi, David Tipper, DiCoTraM: A distributed and coordinated DDoS flooding attack tailored traffic monitoring. IRI 2014 (Aug, 2014): 120-129
27. Xuelian Long, Lei Jin and James Joshi, "Towards Understanding Traveler Behavior in Location-Based Social Networks," IEEE GlobeCom 2013, Dec, Atlanta, USA
28. Xuelian Long and James Joshi, "A HITS-based POI Recommendation Algorithm in Location-Based Social Networks," (Short Paper) The 2013 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2013) Niagara Falls, Canada, August 25-28, 2013
29. Xuelian Long, Lei Jin, James Joshi: Understanding venue popularity in Foursquare. CollaborateCom 2013: 409-418
30. Nathalie Baracaldo, James Joshi, "Beyond Accountability: Using Obligations to Reduce Risk Exposure and Deter Insider Attacks. ACM SACMAT 2013: June, 2013, 213-224
31. A. Masoumzadeh and J. Joshi, "Privacy Settings in Social Networking Systems: What You Cannot Control," in Proc. 8th ACM Symposium on Information, Computer and Communications Security (ASIACCS 2013), May, 2013
32. A. Masoumzadeh, L. Jin, J. Joshi, and R. Constantino, "HELPP Zone: Towards Protecting College Students from Dating Violence," in iConference 2013 Proceedings, 2013, pp. 925-928.
33. S.T. Zargar, and J. Joshi, "DiCoDefense: Distributed Collaborative Defense against DDoS flooding attacks," the 34th IEEE Symposium on Security & Privacy (S&P'13)(Poster), May 19-22, 2013, San Francisco, CA.
34. Rose Constantino, Amirreza Masoumzadeh, Lei Jin, James Joshi, Joseph Burroughs, Dominique de la Cruz, "HELPP Zone App and TMI: Disrupting Intimate Partner Violence in College Students" 2013 International Nursing High-end Forum (INHF), China, 22nd - 23rd June, 2013.
35. Youna Jung, Minsoo Kim, James B. D. Joshi: Towards secure cooperation in online social networks. CollaborateCom 2012: October, 2012, 80-88
36. Lei Jin, Xuelian Long and Joshi B.D. Joshi, Towards understanding Residential Privacy by Analyzing User' Activities in Foursquare, In Proceedings of the 2012 Workshop on Building

Analysis Datasets and Gathering Experience Returns for Security (BADGERS'12), Held in conjunction with CCS 2012, Raleigh, NC, USA.

37. Xuelian Long, Lei Jin, James Joshi, "Exploring Trajectory-Driven Local Geographic Topics in Foursquare," *in the 4th International Workshop on Location-Based Social Networks (LBSN 2012)*, Sept 8, 2012 - Pittsburgh, Pennsylvania, USA (Held in conjunction with Ubicomp 2012).
38. Lei Jin, Xuelian Long, Mohd Anwar, James Joshi, "Analysis of Access Control Mechanisms for Users' Check-ins in Location-based Social Network Systems," 2<sup>nd</sup> International Workshop on Issues and Challenges on Social Computing (WICSOC), 2012 (with IEEE IRI2012).
39. Nathalie Baracaldo, James Joshi, "A Trust-and-Risk Aware RBAC Framework: Tackling Insider Threat," *ACM SACMAT 2012*: 167-176
40. Hassan Takabi and James B. D. Joshi. Policy Management as a Service: An Approach to Manage Policy Heterogeneity in Cloud Computing Environment. In *Proc. 45th Hawaii International Conference on System Sciences (HICSS)*, Hawaii, USA, January 4-7, 2012.
41. Hassan Takabi and James B. D. Joshi. Toward a Semantic Based Policy Management Framework for Interoperable Cloud Environments. In *Proc. 1st International IBM Cloud Academy Conference (ICA CON 2012)*, Research Triangle Park (RTP), North Carolina, USA, April 19-20, 2012.
42. Jesus M. Gonzalez, Mohd Anwar, James B. D. Joshi, "Trust-Based Approaches to Solve Routing Issues in Ad-Hoc Wireless Networks: A Survey," *IEEE 10th International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom)*, 2011, vol., no., pp.556,563, 16-18 Nov. 2011
43. Jesus M. Gonzalez, Mohd Anwar, James B. D. Joshi, "A Trust-based Approach Against IP-spoofing Attacks." *Ninth Annual Conference on Privacy, Security and Trust (PST 2011)*, 19-21 July, 2011, Montreal, Québec, Canada.(pg 63-70)
44. Jesus M. Gonzalez, Mohd Anwar, James B. D. Joshi, "A Trust-based Approach to Mitigate Rerouting Attacks," *CollaborateCom*, poster version, International Conference on, 15-18 October 2011.
45. Amirreza Masoumzadeh, James Joshi, "Anonymizing Geo-Social Network Datasets, *4th ACM SIGSPATIAL International Workshop on Security and Privacy in GIS and LBS*, November 1st, 2011, Chicago, IL, USA (**Best Student Paper Award**)
46. Hassan Takabi and James Joshi, "An Approach to manage Policy Heterogeneity in Cloud Computing Environment," Poster, *The 27th Annual Computer Security Applications Conference (ACSAC 2011)*, Orlando, FL, USA, December 5-9, 2011.
47. Hassan Takabi and James B. D. Joshi, "Policy Management as a Service: An Approach to Manage Policy Heterogeneity in Cloud Computing Environment," In *Proc. 45th Hawaii International Conference on System Sciences (HICSS)*, Hawaii, USA, January 4-7, 2012.

48. Amirreza Masoumzadeh, James Joshi, "An Alternative Approach to k-Anonymity for Location-Based Services," *The 8th International Conference on Mobile Web Information Systems (MobiWIS 2011)*, Procedia CS Vol:5: 522-530 (2011)
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