

# Avinash Srinivasan, Ph.D.

## REFEREED PUBLICATIONS

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### Journal Publications (8)

- [J8-31] **A. Srinivasan**, S. Kolli, and J. Wu. “Steganographic Information Hiding that Exploits a Novel File System Vulnerability”. In *International Journal of Security and Networks (IJSN)*, Vol. 8, No. 2, 2013.
- [J7-30] F. Li, J.Wu, and **A. Srinivasan**. “Uncertainty Mitigation for Trustworthiness-Oriented Applications in Wireless Ad Hoc Networks”. In *IEICE Transactions on Information and Systems, International Journal- Special Section on Trust, Security and Privacy in Computing and Communication Systems*. Vol. E95 – D No.1 pp.12 – 19, 2012.
- [J6-29] **A. Srinivasan**. “SecLoc - Secure Localization in WSNs Using CDS”. In *International Journal of Security and Communication Networks*, Vol. 4, Issue 7, pages 763 - 770, 2011.
- [J5-28] **A. Srinivasan**, J. Wu, and J. Teitelbaum. “Distributed Reputation-based Secure Localization in Sensor Networks”. In *LNCS Transactions on Autonomic and Trusted Computing*, Springer, Vol. 1, Issue 1, 2011.
- [J4-27] **A. Srinivasan** , F. Li, and J. Wu. “Secure Reputation Monitoring System - A Novel Connected Dominating Set-based Framework for WSNs”. In *Special Issue on Trusted Computing and Communications, International Journal of Security and Communication Networks*, Vol. 4, Issue 1, pages 95108, 2011.
- [J3-26] **A. Srinivasan** and J. Wu. “Secure and Reliable Broadcasting in Wireless Sensor Networks using Multi-Parent Trees”. In *International Journal of Security and Communication Networks*, Vol. 2, Issue 3, pp. 239-253, 2009.
- [J2-25] **A. Srinivasan**, F. Li, J. Wu, and M. Li. “Secure Clique-based Group Key Assignment in Wireless Sensor Networks”. In *International Journal of Security and Networks (IJSN)*, Vol. 3, Issue 4, pp. 226-239, 2008.
- [J1-24] F. Li, **A. Srinivasan**, and J. Wu. “PVFS: A Probabilistic Voting-based Filtering Scheme in Wireless Sensor Networks”. In *International Journal of Security and Networks (IJSN)*, Vol. 3, Issue 3, pp. 173-182, 2008.

### Book Chapters (3)

- [BC3-23] **A. Srinivasan**, J. Teitelbaum, H. Liang, J. Wu, and M. Cardei. “Reputation and Trust-based System for Ad-Hoc and Sensor Networks”. In *Algorithms and Protocols for Wireless Ad-Hoc and Sensor Networks*, A. Boukerche (ed.), Wiley & Sons, pp. 375-402, 2008-2009.
- [BC2-22] **A. Srinivasan** and J. Wu. “A Survey on Secure Localization in Wireless Sensor Networks”. In *Encyclopedia of Wireless and Mobile Communications*, B. Furht (ed.), CRC Press, Taylor and Francis Group. 2007.
- [BC1-21] F. Li , **A. Srinivasan**, and J. Wu. “Security Issues in Sensor Surveillance”. In *Handbook on Mobile Ad-Hoc and Pervasive Communications*, L. T. Yang and M. K. Denko (eds.), American Scientific Publishers, 2006.

- [J8-31] **A. Srinivasan**, S. Kolli, and J. Wu. “Steganographic Information Hiding that Exploits a Novel File System Vulnerability”. Accepted to appear in *International Journal of Security and Networks (IJSN)*, Vol. 8, No. 2, 2013.
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- [J6-29] **A. Srinivasan** “SecLoc - Secure Localization in WSNs Using CDS”. In *International Journal of Security and Communication Networks*, Wiley and Sons’ 2011.
- [J5-28] **A. Srinivasan**, J. Wu, and J. Teitelbaum. “Distributed Reputation-based Secure Localization in Sensor Networks”. In *LNCS Transactions on Autonomic and Trusted Computing*, Springer, Issue 1, 2011.
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- [J2-25] **A. Srinivasan**, F. Li, J. Wu, and M. Li. “Secure Clique-based Group Key Assignment in Wireless Sensor Networks”. In *International Journal of Security and Networks (IJSN)*, Vol. 3, Issue 4, pp. 226-239, 2008.
- [J1-24] F. Li, **A. Srinivasan**, and J. Wu. “PVFS: A Probabilistic Voting-based Filtering Scheme in Wireless Sensor Networks”. In *International Journal of Security and Networks (IJSN)*, Vol. 3, Issue 3, pp. 173-182, 2008.

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- [BC2-22] **A. Srinivasan** and J. Wu. “A Survey on Secure Localization in Wireless Sensor Networks”. In *Encyclopedia of Wireless and Mobile Communications*, B. Furht (ed.), CRC Press, Taylor and Francis Group. 2007.
- [BC1-21] F. Li , **A. Srinivasan**, and J. Wu. “Security Issues in Sensor Surveillance”. In *Handbook on Mobile Ad-Hoc and Pervasive Communications*, L. T. Yang and M. K. Denko (eds.), American Scientific Publishers, 2006.

### **Conference and Workshop Publications (20)**

- [C20-20] H. Kalva, A. Parikh and **A. Srinivasan**. “Accelerating Video Carving from Unallocated Space”. In *The Proceedings of SPIE 8665 - Media Watermarking, Security, and Forensics 2013*, 86650H, 3-7 Feb. 2013, Burlingame, CA, USA.
- [C19-19] **A. Srinivasan**, S. Thirthahalli, and A. Stavarou. “HIDEINSIDE - A Novel Randomized & Encrypted Antiforensic Information Hiding”. In *International Conference on Computing, Networking and Communications (ICNC)*, 28-31 Jan. 2013, San Diego, CA, USA.

- [C18-18] J. Medsger and **A. Srinivasan**. “ERASE- EntRopy-based SAnitization of SENSitive Data for Privacy Preservation”. In *The 7th International Conference for Internet Technology and Secured Transactions (ICITST)*, pages 427 - 432, 10 – 12 Dec. 2012, London.  
**Best Paper Award Winner.**
- [C17-17] M. Alhousseini, **A. Srinivasan** and D. Wijesekera. “Forensics Filesystem with Cluster-Level Identifiers for Efficient Data Recovery”. In *The 7th International Conference for Internet Technology and Secured Transactions (ICITST)*, pages 411 – 415, 10 – 12 Dec. 2012, London.
- [C16-16] **A. Srinivasan** and J. Wu. “SafeCode - Safeguarding Security and Privacy of User Data on Stolen iOS Device”. In *The 4th International Symposium on Cyberspace Safety and Security (CSS)*, pages 11-20, 12-13 Dec. 2012, Melbourne, Australia.
- [C15-15] **A. Srinivasan** and L. Chenupatti. “Robust Authentication of Public Access Points Using Digital Certificates - A Novel Approach”. In *The 4th International Symposium on Cyberspace Safety and Security (CSS)*, pages 153-164, 12-13 Dec. 2012, Melbourne, Australia.
- [C14-14] J. Spaulding, A. Krauss and **A. Srinivasan**. “Exploring an Open WiFi Detection Vulnerability as a Malware Attack Vector on iOS Devices”. In *The 7th IEEE International Conference on Malicious and Unwanted Software (IEEE MALWARE)*, pages 87-93, 16-18 Oct. 2012, Fajardo, PR.
- [C13-13] **A. Srinivasan** and J. Wu. “Duplicate File Names – A Novel Steganographic Data Hiding Technique”. In *International Workshop on Identity - Security, Management and Applications (ID)*, pages 260-268, 22-24 July 2011, Kochi, India, .
- [C12-12] A. Telidevara, V. Chandrasekaran, **A. Srinivasan**, R. Mukkamala, and S. Gampa. “Similarity Coefficient Generator for Network Forensics”. In *IEEE International Workshop on Information Forensics and Security (WIFS)*, pages 1-6, 12-15 Dec. 2010, Seattle, WA, USA.
- [C11-11] K. Yadav and **A. Srinivasan**. “iTrust: An Integrated Trust Framework for Wireless Sensor Networks”. In *The 25th ACM Symposium on Applied Computing - Trust, Reputation, Evidence and other Collaboration Know-how - (SAC TRECK)*, 22-26 Mar. 2010, Sierre, Switzerland.
- [C10-10] **A. Srinivasan** and J. Wu. “A Novel Connected Dominating Set based Secure Localization Model for WSNs”. In *International Conference on Next Generation Wireless Systems (NGWS '09)*, 12-14 Oct. 2009, Melbourne, Australia.
- [C9-9] F. Li, **A. Srinivasan**, and J. Wu. “Thwarting Blackhole Attacks in Disruption-Tolerant Networks using Encounter Tickets”. In *IEEE 28th Conference on Computer Communications (INFOCOM)*, 20-25 Apr. 2009, Rio De Janeiro, Brazil.
- [C8-8] R. Thanawala, J.Wu, and **A. Srinivasan**. “Efficient Resource Discovery Technique in a Mobile Ad Hoc Network”. In *IEEE International Conference on Communications (ICC)*, 14-18 Jun. 2009, Dresden, Germany.
- [C7-7] **A. Srinivasan** and J. Wu. “TRACK: A Novel Connected Dominating Set based Sink Mobility Model for WSNs”. In *Proceedings of 17<sup>th</sup> IEEE International Conference on Computer Communications and Networks (ICCCN)*, pages 1-8, 3-7 Aug. 2008, St. Thomas, US Virgin Islands.
- [C6-6] **A. Srinivasan** and J. Wu. “A Novel CDS-based Reputation Monitoring System for WSNs”. In *IEEE International Conference on Distributed Computing Systems Workshops ICDCS (Wireless Security and Privacy-WiSP)*, pages 364-369, 17-20 Jun. 2008, Beijing.

- [C5-5] **A. Srinivasan** and J. Wu. “A Novel  $k$ -parent Flooding Tree for Secure and Reliable Broadcasting in Sensor Networks”. In *IEEE International Conference on Communications (ICC)*, pages 1497-1502, 24-28 Jun. 2007, Glasgow, Scotland.
- [C4-4] **A. Srinivasan**, F. Li, J. Wu, and M. Li “CAGE: **C**lique-based **A**ssignment of **G**roup **kE**y”. In *International Conference on Communications and Networking in China, (CHINACOM)*, pages 197-201, 22-24 Aug. 2007, Shanghai, China.
- [C3-3] F. Li, **A. Srinivasan**, M. Lu, and J. Wu. “Uncertainty Mitigation for Utility-Oriented Routing in Wireless Ad-Hoc Networks”. In *IEEE Global Communication Conference (GLOBECOM)*, pages 427-431, 26-30 Nov. 2007, Washington, DC.
- [C2-2] **A. Srinivasan**, J. Teitelbaum, and J. Wu. “DRBTS: **D**istributed **R**eputation-based **B**eacon **T**rust **S**ystem”. In *IEEE International Symposium on Dependable, Autonomic and Secure Computing (DASC)*, pages 277-283, 29 Sep. - 2 Oct. 2006, Indianapolis, IN, USA.
- [C1-1] **A. Srinivasan** and K. Govindarajan. “Biometrics in Information Security: Face Recognition”, *Information Security Demo*, Honorable Mention, Norwalk Comm. College, CT, 2003.