

REFERRED JOURNAL PAPERS

1. K. Sharshembiev, **S.M. Yoo**, and E. Elmahdi, "Protocol Misbehavior Using Multivariate Statistical Analysis and Machine Learning in Vehicular Ad Hoc Networks," to appear in Ad Hoc & Sensor Wireless Networks.
2. K. Sharshembiev, **S.M. Yoo**, and E. Elmahdi, "Protocol Misbehavior Detection Framework Using Machine Learning Classification in Vehicular Ad Hoc Networks," Springer's Wireless Networks, 27(3), 2103-2118, Feb. 2021, DOI 10.1007/s11276-021-02565-7.
3. Y. Kanamori and **S.M. Yoo**, "Quantum Computing: Principles and Applications," Journal of International Technology and Information Management (JITIM), vol. 29, no. 2, 2020, pp. 42-71. ([pdf](#))
4. A. Serek, M. Zhaparov, **S.M. Yoo**, A. Talasbek, Y.K. Kim, and M.W. Jin, "Best Practices in Running IT Hackathons Based on Paragon University Dataset," International Journal of Emerging Technologies in Learning (iJET), vol. 15, no. 19, Oct. 2020, pp. 231-238. ([pdf](#))
5. A. Talasbek, A. Serek, M. Zhaparov, **S.M. Yoo**, Y.K. Kim, and G.H. Jeong, "Personality Classification Experiment by Applying k-Means Clustering," International Journal of Emerging Technologies in Learning (iJET), vol. 15, no. 16, Aug. 2020, pp. 162-177. ([pdf](#))
6. E. Elmahdi, **S.M. Yoo**, and K. Sharshembiev, "Secured and Reliable Data Forwarding Using Homomorphic Cryptosystem against Blackhole Attacks in Mobile Ad Hoc Networks," Elsevier's Journal of Information Security and Applications, vol. 51 (2020), April 2020. ([pdf](#))
7. C. An, Y.K. An, **S.M. Yoo**, and B. Wells, "Efficient Data Association to Targets for Tracking in Passive Wireless Sensor Networks," Elsevier's Ad Hoc Networks, 75-76 (2018), June-July, 2018, pp. 19-32. ([pdf](#))
8. A. Zhamanov, **S.M. Yoo**, Z. Sakhiyeva, and M. Zhaparov, "Implementing and evaluating flipped classroom as IoT element into learning process of computer network education," International Journal of Information and Communication Technology Education (IJICTE), vol. 14, issue 2, April-June 2018, pp. 30-47. ([pdf](#))
9. V. Heydari and **S.M. Yoo**, "Timeout Period Analysis to Detect Misbehaving Nodes in Multihop Wireless Ad Hoc Networks," Springer's International Journal of Wireless Information Networks, vol. 25, no. 1, March 2018, pp. 15-29. ([pdf](#))
10. V. Heydari, S. Kim, and **S.M. Yoo**, "Scalable Anti-Censorship Framework Using Moving Target Defense for Web Servers," IEEE Transactions on Information Forensics and Security, vol. 12, no. 5, May 2017, pp. 1113-1124. ([pdf](#))
11. V. Heydari and **S.M. Yoo**, "E2EACK: An end-to-end acknowledgment-based scheme against collusion black hole and slander attacks in MANETs," Springer's Wireless Networks, vol. 22, issue 7, Oct. 2016, pp. 2259-2273. ([pdf](#))
12. J. Gupta, E. Kalaimannan, and **S.M. Yoo**, "Maximizing investigation effectiveness in digital forensic cases," A Heuristic for maximizing investigation effectiveness of digital forensic cases involving multiple investigators," Computers & Operations Research, vol. 69, May 2016, pp. 1-9. ([pdf](#))
13. V. Heydari and **S.M. Yoo**, "Lightweight acknowledgement-based method to detect misbehavior in MANETs," KSII Transactions on Internet and Information Systems, vol. 9, no. 12, Dec. 2015, pp. 5150-5169. ([pdf](#))

14. S. Park and **S.M. Yoo**, "Extended self-reproducible discrete event system specification (DEVs) formalism using hidden inheritance," *Information Sciences*, vol. 292, pp. 75-94, Jan. 2015. ([pdf](#))
15. Y. An, **S.M. Yoo**, C. An, and B.E. Wells, "Rule-based multiple-target tracking in acoustic wireless sensor networks," *Computer Communications*, vol. 51, pp. 81-94, Sep. 2014. ([pdf](#))
16. M. Avula, S.G. Lee, and **S.M. Yoo**, "Security framework for hybrid wireless mesh protocol in wireless mesh networks," *KSII Transactions on Internet and Information Systems*, vol. 8, no. 6, pp. 1982-2004, June 2014. ([pdf](#))
17. W.K. Tan, S.G. Lee, J.H. Lam, and **S.M. Yoo**, "A security analysis of the 802.11s wireless mesh network routing protocol and its secure routing protocols," (*MPDI*) *Sensors* 13(9), pp. 11553-11585, Sep. 2013. ([pdf](#))
18. Y. An, **S.M. Yoo**, C. An, and B.E. Wells, "Noise Mitigation for Target Tracking in Wireless Acoustic Sensor Networks," *KSII Transactions on Internet and Information Systems*, vol. 7, no. 5, pp. 1166-1179, May 2013. ([pdf](#))
19. Y. An, **S.M. Yoo**, C. An, and B.E. Wells, "Doppler effect on target tracking in wireless sensor networks," *Computer Communications*, vol. 36, issue 7, pp. 834-848, Apr. 2013. ([pdf](#))
20. S. Park and **S.M. Yoo**, "An efficient reliable one-hop broadcast in mobile ad hoc networks," *Ad Hoc Networks*, vol. 11, issue 1, pp. 19-28, Jan. 2013. ([pdf](#))
21. M. Avula and **S.M. Yoo**, "An energy-efficient minimum connected dominating set in mobile ad hoc networks," *Int'l Journal of Ubiquitous Computing and Internationalization*, vol. 4, no. 1, pp. 25-28, Dec. 2012 (pdf).
22. J.C. Lee and **S.M. Yoo**, "Intelligent cell selection satisfying user requirements for inter-system handover in heterogeneous networks," *Computer Communications*, vol. 35, issue 17, pp. 2106-2114, Oct. 2012. ([pdf](#))
23. M. Avula, **S.M. Yoo**, and S. Park, "Constructing minimum connected dominating set in mobile ad hoc networks," *AIRCC Int'l Journal on Applications of Graph Theory in Wireless Ad hoc Networks and Sensor Networks (Graph-HOC)*, vol. 4, no. 2, pp. 15-27, Sep. 2012. (pdf)
24. F.T. Sheldon, J.M. Weber, **S.M. Yoo**, and W.D. Pan, "The Insecurity of Wireless Networks," *IEEE Security & Privacy*, vol. 10, no. 4, pp. 54-61, July/Aug. 2012. ([pdf](#))
25. O. Toutouji, **S.M. Yoo**, and M. Park, "Stability analysis of VEISV propagation modeling for network worm attack," *Applied Mathematical Modeling*, 36(2012) 2751-2761, June 2012. ([pdf](#))
26. C.-H. Park, **S.M. Yoo**, and W. D. Pan, "LSM: A Layer Subdivision Method for Deformable Object Matching," *Information Sciences*, vol. 180, issue 19, Sep. 2010, pp. 3718-3727. ([pdf](#))
27. M. Al-Shurman, **S.M. Yoo**, B. Kim, and S. Park, "Two Distributive Key Management Schemes in Mobile Ad Hoc Networks," *Intelligent Automation and Soft Computing*, vol. 16, no. 4, pp. 591-603, 2010. ([pdf](#))
28. I. You, B. Kim, H.-H. Hsu, and **S.M. Yoo**, "Guest Editorial: Forthcoming Multimedia & Intelligent Services in Ubiquitous and Pervasive Computing," *Intelligent Automation and Soft Computing*, vol. 16, no. 4, pp., 2010.
29. M. Al-Shurman, **S.M. Yoo**, and S. Park, "Vectorized Broadcast Routing in Mobile Ad Hoc Networks," *Journal of Telecommunications*, vol. 3, Issue 1, pp. 7-13, June 2010. ([pdf](#))
30. S. Park and **S.M. Yoo**, "Route Information Update in Mobile Ad Hoc Networks," *International Journal of Computer and Network Security*, vol. 2, no. 5, pp. 65-69, May 2010. ([pdf](#))
31. S. Park, **S.M. Yoo**, and F. Qiu, "Route Reutilization Routing in Mobile Ad Hoc Networks," *KSII Transactions on Internet and Information Systems*, vol. 4, issue 2, pp. 78-97, April 2010. ([pdf](#))
32. J. Fu, H.J. Caulfield, **S.M. Yoo**, and D. Wu, "Fuzzy Aggregation with Artificial Color Filters", *Information Sciences*, vol. 180, issue 1, pp. 167-180, Jan. 2010. ([pdf](#))

33. Y. Kanamori, **S.M. Yoo**, D. A. Gregory, and F.T. Sheldon, "Authentication Protocols Using Quantum Superposition States," *International Journal of Network Security*, vol. 9, No. 2, pp. 101-108, Sep. 2009. ([pdf](#))
34. O. Toutonji and **S.M. Yoo**, "An Approach against a Computer Worm Attack," *International Journal of Communication Networks and Information Security*, vol. 1, no. 2, pp. 48-54, Aug. 2009. ([pdf](#))
35. Y. Kanamori and **S.M. Yoo**, "Quantum Three-Pass Protocol: Key Distribution Using Quantum Superposition States," *International Journal of Network Security & Its Applications*, vol. 1, no. 2, pp. 64-70, July 2009. ([pdf](#))
36. D. Kotturi and **S.M. Yoo**, "High-Speed Parallel Architecture of the Whirlpool Hash Function," *International Journal of Advanced Science and Technology*, vol. 7, pp. 21-26, June 2009. ([pdf](#))
37. O. Toutonji and **S.M. Yoo**, "Passive Benign Worm Propagation Modeling with Dynamic Quarantine Defense," *KSII Transactions on Internet and Information Systems*, vol. 3, no. 1, pp. 96-107, Feb. 2009. ([pdf](#))
38. R. Al Namneh, W.D. Pan, and **S.M. Yoo**, "Parallel Implementations of 1-D Fast Fourier Transform without Inter-Processor Communication," *International Journal of Computers and Applications (ACTA Press)*, Vol. 29, No. 2, pp. 180-186, June 2007. ([pdf](#))
39. D.W. Pan, **S.M. Yoo**, C.H. Park, "Complexity Accuracy Tradeoffs of Lie Operators in Motion Estimation," *Pattern Recognition Letters*, Vol. 28, Issue 7, pp. 778-787, May 2007. ([pdf](#))
40. D.W. Pan, **S.M. Yoo**, M. Nalasani, and Paul Cox, "Efficient Local Transformation Estimation Using Lie Derivatives," *Information Sciences*, Vol. 177, Issue 3, pp. 815-831, Feb. 2007. ([pdf](#))
41. R. Al Na'mneh, W. D. Pan, and **S.M. Yoo**, "Efficient Adaptive Algorithms for Transposing Small and Large Matrices on Symmetric Multiprocessors", *Informatica*, 17(4), pp. 535-550, 2006. ([pdf](#))
42. C.H. Park, **S.M. Yoo**, H. Choo, and W. D. Pan, "Multi-User Data Multiplexing for Digital Multimedia Broadcasting," *Computer Communications*, Vol. 29, Issue 18, pp. 3970-3975, Nov. 2006. ([pdf](#))
43. Y. Kanamori, **S.M. Yoo**, W.D. Pan, and F. Sheldon, "A Short Survey on Quantum Computers," *International Journal of Computers and Applications (ACTA Press)*, Vol. 28, No. 3, pp. 227-233, Sep. 2006. ([pdf](#))
44. R. Al Namneh, W.D. Pan, and **S.M. Yoo**, "Two Parallel 1-D FFT Algorithms without All-to-All Communication," *Parallel Processing Letters*, Vol. 16, No. 2, pp. 153-164, June 2006. ([pdf](#))
45. D.W. Pan and **S.-M. Yoo**, "Fano Decoding with Timeout: Queueing Analysis," *ETRI Journal*, Vol. 28, No. 3, pp. 301-310, June 2006. ([pdf](#))
46. J. Eisbrener, G. Murphy, D. Eade, C. K. Pinnow, K. Begum, S. Park, **S.-M. Yoo**, J.-H. Youn, "Recycled Path Routing in Mobile Ad Hoc Networks," *Computer Communications*, Vol. 29, Issue 9, pp. 1552-1560, May 2006. ([pdf](#))
47. H. Choo, Y. J. Lee, and **S.M. Yoo**, "DIG: Degree of Inter-Reference Gap for a Dynamic Buffer Cache Management," *Information Sciences*, Vol. 176, No. 8, pp. 1032-1044, Apr. 2006. ([pdf](#))
48. J. Fu, H. J. Caulfield, **S.-M. Yoo**, and V. Atluri, "Use of Artificial Color Filtering to Improve Iris Recognition and Searching," *Pattern Recognition Letters*, Vol. 26, Issue 14, pp. 2244-2251, Oct. 2005. ([pdf](#))
49. S. Park, **S.M. Yoo**, M. Al-Shurman, B. VanVoorst, and C.H. Jo, "ARM: Anticipated Route Maintenance Scheme in Location-Aided Mobile Ad Hoc Networks," *Journal of Communications and Networks*, Vol. 7, No. 3, pp. 325-336, Sep. 2005. ([pdf](#))

50. T. Davis, **S.M. Yoo**, and D. W. Pan, "Dissecting a Network-Based Education System," Technological Horizons in Education (T.H.E.) Journal, Sep. 2005. ([htm](#))
51. **S.M. Yoo**, D. Kotturi, W. D. Pan, and J. Blizzard, "An AES Crypto Chip Using A High-Speed Parallel Pipelined Architecture," Microprocessors and Microsystems, Vol. 29, No. 7, pp. 317-326, Sep. 2005. ([pdf](#))
52. M. M. Thaturi, **S.M. Yoo**, and R. Gaede, "An efficient VLSI implementation of IDEA encryption algorithm using VHDL," Microprocessors and Microsystems, Vol. 29, Issue 1, pp. 1-7, Feb. 2005. ([pdf](#))
53. J. Caulfield, J. Fu, and **S.M. Yoo**, "Artificial Color Logic," Information Sciences, an International Journal, Vol. 167, pp. 1-7, Dec. 2004. ([pdf](#))
54. **S.M. Yoo**, H. Y. Youn, and H. Choo, "Fault-Free Submeshes in Faulty Torus-Connected Multicomputers," Informatica, Vol. 28, No. 3, pp. 293-298, 2004. ([htm](#))
55. H. Choo, D. Chung, H.Y. Youn, and **S.M. Yoo**, "Reduction of Location Update Traffic Using Virtual Layer in PCS," Journal of Information Science and Engineering, pp. 787-808, Vol. 19, No. 5, Sep. 2003. ([pdf](#))
56. **S.M. Yoo**, H.Y. Youn, and H. Choo, "Dynamic Scheduling and Allocation in Two-Dimensional Mesh-Connected Multicomputers for Real-Time Tasks," IEICE Transaction on Information and Systems, pp. 613-622, May 2001. ([pdf](#))
57. **S.M. Yoo**, H. Choo, H.Y. Youn, C. Yu, and Y. Lee, "On Task Relocation in Two-Dimensional Meshes," Journal of Parallel and Dist. Computing, pp. 616-638, May 2000. ([pdf](#))
58. H. Choo, **S.M. Yoo**, and H.Y. Youn, "Processor Scheduling and Allocation for 3D Torus Multicomputer Systems," IEEE Trans. on Parallel and Dist. Syst., pp. 475-484, May 2000. ([pdf](#))
59. **S.M. Yoo**, H.Y. Youn, and B. Shirazi, "An Efficient Task Allocation Scheme for 2D Meshes," IEEE Trans. on Parallel and Dist. Syst., Vol. 8, No. 9, pp. 934-942, Sep. 1997. ([pdf](#))

BOOK EDITING

1. L. H. Etzkorn and **S. M. Yoo** (Editor), Proceedings of the ACM 42nd Annual Southeast Conference, April 2004, ACM.
2. **S. M. Yoo** and H.Y. Youn (Editor), Proceedings of the ISCA 16th International Conference on Parallel and Distributed Computing Systems, August 2003, ISCA.
3. F. Sheldon, A. Krings, **S. M. Yoo**, A. Mili and J. Trien (Editor), Proceedings of the Second Annual Cyber Security and Information Infrastructure Research Workshop, (CSIIRW006), "Beyond the Maginot Line", May 10-11, Oak Ridge National Laboratory, 2006.

CONFERENCE PROCEEDINGS

1. E. Elmahdi and **S.M. Yoo**, "Secure Data Integrity in VANETs based on CS-DC Scheme," IEEE Latin-American Conference on Communications (LATINCOM-2020), Nov. 2020.
2. A. Talasbek, A. Serek, M. Zhaparov, **S.M. Yoo**, Y.K. Kim, and G.H. Jeong, "Personality Classification by Applying k-Means Clustering," IEEE the 2nd Int'l Conf. on Artificial Intelligence in Information and Communication (ICAIIIC 2020), Fukuoka, Japan, Feb. 2020.
3. E. Elmahdi, **S.M. Yoo**, K. Sharshembiev, Y.K. Kim, and G.H. Jeong, "Protecting Data Integrity for Multi-Application Environment in Wireless Sensor Networks," IEEE 12th Int'l Conference on Cyber, Physical and Social Computing (CPSCom-2019), Atlanta, USA, July 2019.

4. K. Sharshembiev, **S.M. Yoo**, E. Elmahdi, Y.K. Kim, and G.H. Jeong, "Fail-Safe Mechanism Using Entropy Based Misbehavior Classification and Detection in Vehicular Ad Hoc Networks," IEEE 12th Int'l Conference on Cyber, Physical and Social Computing (CPSCom-2019), Atlanta, USA, July 2019.
5. S.K. Youn, H.K. Lee, G.H. Jeong, **S.M. Yoo**, and Y.K. Kim, "Performance analysis of UAV by the Effect of the Doppler Frequency," the 5th International Conference on Information, Electronics, and Communications Technology 2019, Si'an, China, July 2019.
6. H.K. Lee, G.H. Jeong, J.S. Kim, **S.M. Yoo**, and Y.K. Kim, "A Study on the Performance Analysis of MIMO Systems Using MMSE-Based Serial Interference Cancellation Technique," the 5th International Conference on Information, Electronics, and Communications Technology 2019, Si'an, China, July 2019.
7. E. Kalaimannan, J. N.D. Gupta, and **S.M. Yoo**, "A sequential investigation model for solving time critical digital forensic cases involving a single investigator," National Cyber Summit, Huntsville, AL, USA, June 2019.
8. S. Jiang, J. Liu, L. Wang, and **S.M. Yoo**, "Verifiable Search Meets Blockchain: A Privacy-Preserving Framework for Outsourced Encrypted Data," IEEE ICC 2019 53rd International Conference on Communications, Shanghai, China, May 2019.
9. K. Sharshembiev, **S.M. Yoo**, Y.K. Kim, and G.H. Jeong, "Optimal Threshold Analysis for Triggering Fail-Safe Mechanism in Vehicular Ad Hoc Networks," IEEE/ICACT 2019 21st International Conference of Advanced Communications Technology, PyeongChang, Korea, Feb. 2019. (**outstanding paper award**)
10. A. Serek, M. Zhaparov, and **S.M. Yoo**, "Analysis of Data to Improve System of an Educational Organization," ICECCO 2018: 14th International Conference on Electronics Computer and Computation, Almaty, Kazakhstan, Nov. 2018.
11. K.W. Kim, B.G. Kim, Y.K. Kim, and **S.M. Yoo**, "Digital / Analog Hybrid Redundancy System against Digital System Errors," 4th ICIECT (International Conference of Information, Electronics and Communication Technology), Ulaanbaatar, Mongolia, July 2018.
12. K.W. Kim, B.G. Kim, Y.K. Kim, and **S.M. Yoo**, "Development of Analog and Digital Integrated Mixer," 4th ICIECT (International Conference of Information, Electronics and Communication Technology), Ulaanbaatar, Mongolia, July 2018.
13. K. Sharshembiev, S.M. Yoo, and E. Elmahdi, "Broadcast Storm Mitigation from Unintentional Misbehavior in Vehicular Ad Hoc Networks," IEEE the 8th Annual Computing and Communication Workshop and Conference (IEEE CCWC 2018), Las Vegas, NV, USA, Jan. 2018, pp. 925-930.
14. E. Elmahdi, S.M. Yoo, and K. Sharshembiev, "Securing Data Forwarding against Blackhole Attacks in Mobile Ad Hoc Networks," IEEE the 8th Annual Computing and Communication Workshop and Conference (IEEE CCWC 2018), Las Vegas, NV, USA, Jan. 2018, pp. 463-467.
15. T. Alves, T. Morris, and **S.M. Yoo**, "Securing SCADA Applications Using OpenPLC With End-To-End Encryption," Third Annual Industrial Control System Security Workshop (ICSS 2017), San Juan, PR, USA, Dec. 2017.
16. V. Heydari, **S.M. Yoo**, and S.I. Kim, "Secure VPN using Mobile IPv6 based Moving Target Defense," IEEE Global Communications Conference (GlobeCom 2016), Washington, DC, USA, Dec. 2016.
17. S. Chen, **S.M. Yoo**, and I. Golubykk, "Towards Readiness for Teaching Central Asian University Engineering Subject Matter Using English," 17th CESS Annual Conference, Princeton University, NJ, USA, Nov. 2016.

18. V. Heydari, S.I. Kim, and **S.M. Yoo**, "Anti-Censorship Framework using Mobile IPv6 based Moving Target Defense," 11th Cyber and Information Security Research Conference (CISRC 2016), Oak Ridge, TN, USA, Apr. 2016.
19. V. Heydari and **S.M. Yoo**, "A Securing Critical Infrastructure by Moving Target Defense," Int'l Conference on Cyber Warfare and Security (ICWS 2016), Boston, MA, USA, Mar. 2016.
20. V. Heydari and **S.M. Yoo**, "EACK: End-to-End Acknowledgement-Based Method for Reliable Data Collection in Wireless Sensor Networks," 2nd International Conference on Information Science and Security (ICISS 2015), Seoul, Korea, Dec. 2015.
21. V. Heydari and **S.M. Yoo**, "Moving target defense enhanced by Mobile IPv6," 7th Annual Southeastern Cyber Security Summit, Huntsville, Alabama, USA, June 2015.
22. Y.K. An, C. An, **S.M. Yoo**, and B.E. Wells, "Noise mitigation for multiple targets tracking in acoustic wireless sensor networks," to appear in IEEE Military Communications Conference (MILCOM 2014), Baltimore, MD, USA, Oct. 2014.
23. A V. Heydari, **S.M. Yoo**, and A. Zhamanov, "Acknowledgement-Based Methods to Detect Black Hole Attack in Mobile Ad Hoc Networks," International Conference on Information Technology Promotion in Asia (ITPA), Bishket, Kyrgyzstan, June 2014.
24. E. Kalaimannan, J. Gupta, and **S.M. Yoo**, "Maximizing investigation effectiveness in digital forensic cases," 2013 ASE/IEEE Int'l Conf. on Privacy, Security, Risk and Trust (PASSAT-2013), Washington D.C., USA, Sep. 2013.
25. J. Gupta, E. Kalaimannan, and **S.M. Yoo**, "Maximizing investigation effectiveness for time critical forensic cases," ISDSI 6th Int'l Conf. on Decision Sciences for Performance Excellence, Hyderabad, India, pp. 431-441, Dec. 2012.
26. Y. An, **S.M. Yoo**, B.E. Wells, and C. An, "Environmental effects on target tracking in wireless sensor networks," ISCA 25th Int'l Conf. on Computer Applications in Industry and Engineering (CAINE 2012), New Orleans, USA, Nov. 2012.
27. M. Avula, **S.M. Yoo**, and S. Park, "Constructing minimum connected dominating set in mobile ad hoc networks," ISCA 25th Int'l Conf. on Computer Applications in Industry and Engineering (CAINE 2012), New Orleans, USA, Nov. 2012.
28. S. Park and **S.M. Yoo**, "ROB/CN: An Efficient Reliable 1-Hop Broadcast Using CSMA/CN in Mobile Ad Hoc Networks," The 2011 IEEE Asia-Pacific Services Computing Conference (APSCC '11), Jeju, Korea, Dec., 2011
29. J.M. Weber, **S.M. Yoo**, and W.D. Pan, "Attack Experimentation on IEEE 802.11 WPA Protocols," Cyber Security and Information Intelligence Research Workshop, Oak Ridge, TN, Oct. 2011.
30. S. Park and **S.M. Yoo**, "A Secure Routing Using Reliable 1-Hop Broadcast in Mobile Ad Hoc Networks," International Conference on Future Generation Communication and Networking, Jeju, Korea, pp. 102-111, Dec., 2010.
31. O. Toutonji, **S.M. Yoo**, and M. Park, "Propagation Modeling and Analysis of Network Worm Attack," Cyber Security and Information Intelligence Research Workshop, Oak Ridge, TN, April 2010.
32. S. Park and **S.M. Yoo**, "Routing Table Maintenance in Mobile Ad Hoc Networks," 12th Int'l Conf. on Advanced Communication Technology, Phoenix Park, Korea, pp. 1321-1325, Feb. 2010.
33. T. Kulkeyev and **S.M. Yoo**, "RFID Applications and Security Issues in Kazakhstan," Int'l Conference on IT Promotion in Asia, Tashkent, Uzbekistan, Sep. 2009.
34. O. Toutonji and **S. M. Yoo**, "Realistic Approach against Worm Attack on Computer Networks by Emulating Human Immune System," International Conference on Security and Management 2009 (SAM'09), Las Vegas, pp., July 2009.

35. Y. Kanamori, B. Hoanca, and **S.-M. Yoo**, "Three-Party Quantum Authenticated Key Distribution with Partially Trusted Third Party," IEEE GlobeCom, New Orleans, LA, Nov. 2008.
36. M. Al-Shurman, **S.M. Yoo**, and B. Kim, "Distributed Key Management for Mobile Ad Hoc Networks," 2nd Int'l Conf. on Multimedia and Ubiquitous Engineering (MUE 2008), Busan, Korea, pp. 533-536, April 2008.
37. Y. Kanamori, **S.M. Yoo**, and F.T. Sheldon, "Bank Transfer on Quantum Channel with Digital Checks," IEEE GlobeCom 2006, San Francisco, Nov. 2006.
38. M. Al-Shurman and **S.M. Yoo**, "Key Pre-Distribution Using MDS Codes in Mobile Ad Hoc Networks," Int'l Conf. on Information Technology: Next Generations (ITNG 2006), Las Vegas, Nevada, pp. 566-567, April 2006.
39. Y. Kanamori, **S.M. Yoo**, D.A. Gregory, and F.T. Sheldon, "On Quantum Authentication Protocols," IEEE GlobeCom 2005, St. Louis, MS, vol. 3, pp. 1650-1654, Nov. 2005.
40. D. Kotturi, **S.M. Yoo**, and J. Blizzard, "AES Crypto Chip Utilizing High-Speed Parallel Pipelined Architecture," IEEE Int'l Symp. on Circuits and Systems (ISCAS-05), Kobe, Japan, pp. 4653-4656, May 2005.
41. Y. Kanamori, **S.M. Yoo**, and M. Al-Shurman, "A Quantum No-Key Protocol for Secure Communication," ACM Southeast Conference (ACMSE-05), Atlanta, pp. 2-92-93, March 2005.
42. M. Al-Shurman, **S.M. Yoo**, and Y. Kanamori, "Decreasing Broadcast in Route Discovery Using Vectors," ACM Southeast Conference (ACMSE-05), Atlanta, pp. 2-103-104, March 2005.
43. J. Eisbrener, G. Murphy, D. Eade, C. K. Pinnow, K. Begum, S. Park, **S.M. Yoo**, J.-H. Youn, "Hot/Cold Routing in Mobile Ad Hoc Networks," IEEE Vehicular Technology Conference (VTC-2004-fall), Los Angeles, pp. 2848-2852, September 2004.
44. M. Al-Shurman, **S. M. Yoo**, and S. Park, "A Performance Simulation for Route Maintenance in Wireless Ad Hoc Networks," ACM 42nd Southeast Conference (ACMSE '04), Huntsville, Alabama, pp. 25-30, April 2004.
45. M. Al-Shurman, **S. M. Yoo**, and S. Park, "Black Hole Attack in Wireless Ad Hoc Networks," ACM 42nd Southeast Conference (ACMSE '04), Huntsville, Alabama, pp. 96-97, April 2004.
46. M. Nalasani, W. D. Pan, and **S. M. Yoo**, "Motion Estimation with Integrated Motion Models," ACM 42nd Southeast Conference (ACMSE '04), Huntsville, Alabama, pp. 466-467, April 2004.
47. Y.J. Lee, H. Choo, and **S.M. Yoo**, "DIG Based Block Replacement Scheme for Efficient Buffer Cache Management," ISCA 16th Int'l Conference on Parallel and Distributed Computing Systems (PDCS '03), Reno, Nevada, pp. 349-354, August 2003.
48. D. W. Pan and **S.M. Yoo**, "Computation Control of Distributed Image Decoders in Mobile Computing," ISCA 16th Int'l Conference on Parallel and Distributed Computing Systems (PDCS '03), Reno, Nevada, pp. 411-416, August 2003.
49. D. W. Pan, **S.M. Yoo** and R. Adhami, "Prediction of Raleigh Fading Channels based on Hidden Markov Modeling of Sequential Channel Decoding Complexity," 35th IEEE SSST, Morgantown, WV, pp. 304-307, March 2003.
50. Y. Kanamori, E. Jovanov, and **S.-M. Yoo**, "Performance Comparison between TEA and Rijndale Encryption Algorithm for Wireless Sensor Networks," ISCA 15th International Conference on Computer Applications in Industry and Engineering (CAINE), San Diego, Nov. 2002, pp. 209-212.
51. M. M. Thaduri, **S. M. Yoo**, and H. Y. Youn, "An Efficient VLSI Implementation of IDEA Encryption Algorithm Using VHDL," International Conference on Security and Management 2002 (SAM'02), Las Vegas, pp. 262-268, June 2002.

52. C. Deverapalli, L. Joiner, **S. M. Yoo**, and H. Choo, "Performance Comparison of Various Routing Protocols in Mobile Ad Hoc Networks," International Conference on Wireless Networks 2002 (ICWN'02), Las Vegas, pp. 129-135, June 2002.
53. Z.H. Zhou and **S.M. Yoo**, "An all-to-all multicast routing decreasing channel overheads in wireless ad hoc networks," CATA-2002 (ISCA 17th Int'l Conf. on Computers and Their Applications), San Francisco, pp. 228-231, April 2002.
54. G.W. Kim, H.Y. Youn, H. Choo, J.W. Woo, and **S.M. Yoo**, "Finding Neighbor Blocks on 3D RMESH in Constant Time without Condition," IEEE Int'l Conf. on Parallel and Distributed Processing Techniques and Applications (PDPTA 2001), Las Vegas, pp. 2225-2231, June 2001.
55. H.S. Choo, H.Y. Youn, and **S.M. Yoo**, "Two-Dimensional TMR with Partial Majority Selection and Forwarding," IEEE Int'l Symp. on Industrial Electronics, Pusan, Korea, vol. 3, pp. 482-487, June 2001.
56. **S.M. Yoo** and V. Zanev, "Maintaining Maximal Submeshes in Torus-Connected Multicomputers," ISCA 16th Int'l Conf. on Computers and Their Applications (CATA-2001), Seattle, pp. 290-293, March 2001.
57. V. Zanev, A. Eskenazi, and **S.M. Yoo**, "An Approach to Remote Software Project Management and Development," ISCA 16th Int'l Conf. on Computers and Their Applications (CATA-2001), Seattle, pp. 531-534, March 2001.
58. **S.M. Yoo** and Z.H. Zhou, "All-to-All Communication in Wireless Ad Hoc Networks," ACM SouthEast 39th Conference, Athens, Georgia, March 2001.
59. H.S. Kim, H. Choo, and **S.M. Yoo**, "An Efficient Crossover Switch Discovery Algorithm for Handoffs in Wireless ATM," IEEE Int'l Conf. on Third Generation Wireless Communications (3Gwireless '00), San Francisco, pp. 545-552, June, 2000.
60. W. Choi, H. Choo, and **S.M. Yoo**, "Analytical Approaches for Modeling Characterized MIN", ISCA 15th Int'l Conf. on Computers and Their Applications (CATA-2000), New Orleans, pp. 46-49, March 2000.
61. S.J. Chen, H.Y. Youn, C.S. Yu, and **S.M. Yoo**, "Heterogeneous Computing Based on PVM with Dynamically Varying Loads," IASTED Parallel and Distributed Computing and Systems (PDCS '99), Boston, pp. 794-799, November 1999.
62. **S.M. Yoo** and H.Y. Youn, "An Efficient Partial Compaction Scheme for Three-Dimensional Torus-Connected Parallel Systems," ISCA Parallel and Distributed Computing Systems (PDCS '99), Fort Lauderdale, pp. 225-230, August 1999.
63. H.Y. Youn, E.N. Huh, and **S.M. Yoo**, "Maximum Load Balancing and Processor Utilization for Solving Linear Systems," ISCA Parallel and Distributed Computing Systems (PDCS '99), Fort Lauderdale, pp. 351-356, August 1999.
64. **S.M. Yoo** and H.Y. Youn, "A Task Compaction Scheme for 3D Torus Multicomputer Systems," Int'l Conf. on Parallel and Distributed Processing Techniques and Applications (PDPTA '99), Las Vegas, pp. 900-905, June 1999.
65. H.Y. Youn, E. Moffet, and **S.M. Yoo**, "Multiprocessor Task Scheduling for Optimizing Target Performance Measure," High Performance Computing Symposium, San Diego, pp. 211-216, April 1999.
66. **S.M. Yoo** and H.Y. Youn, "Finding Maximal Submeshes in Faulty 2D Mesh in the Presence of Failed Nodes," IEEE Second Aizu Int'l Symp. on Parallel Algorithms/Architecture Synthesis, Aizu, Japan, pp. 97-103, March 1997.
67. H.S. Choo, H.Y. Youn, and **S.M. Yoo**, "An Efficient Submesh Allocation Scheme for 3-D Torus-connected Multiprocessors," IEEE Second Aizu Int'l Symp. on Parallel Algorithms/Architecture Synthesis, Aizu, Japan, pp. 83-90, March 1997.
68. **S.M. Yoo** and H.Y. Youn, "Largest-Job-First-Scan-All Scheduling Policy for 2D Mesh-Connected Systems," IEEE Symp. on the Frontiers of Massively Parallel Computation, pp. 118-125, Annapolis, Oct. 1996.

69. H.Y. Youn, H.S. Choo, **S.M. Yoo**, and B. Shirazi, "Dynamic Task Scheduling and Allocation for 3D Torus Multicomputer Systems," Int'l Conf. on Parallel Processing, pp. III-199-206, Aug. 1996.
70. **S.M. Yoo** and H.Y. Youn, "An on-Line Scheduling and Allocation Scheme for Real-Time Tasks in 2D Meshes," IEEE Symp. on Parallel and Dist. Processing, pp. 631-637, San Antonio, Oct. 1995.
71. **S.M. Yoo** and H.Y. Youn, "An efficient task allocation scheme for two-dimensional mesh-connected systems," IEEE Int'l Conf. on Dist. Comp. Systems, pp. 501-508, Vancouver, May 1995.
72. H.Y. Youn, **S.M. Yoo**, and B. Shirazi, "Task Relocation for Two-Dimensional Meshes," IEEE Int'l Conf. on Parallel and Dist. Comp. Syst., pp.230-235, Las Vegas, Oct. 1994.
73. S.M. Yang, **S.M. Yoo**, Y.S. Kim, Y.J. Song, and F. Sheldon, "UTARK: An Object-Based Real-Time Kernel for Distributed Embedded Systems," IEEE Int'l Conf. on Computers in Design, Manufacturing, and Production, pp. 392-399, Paris, May 1993.
74. **S.M. Yoo** and S.M. Yang, "Reliability Analysis of Two Configurations on the Hybrid Higher Radix Hypercube," IEEE Midcon '90, pp.258-261, Dallas, September 1990.