

CURRICULUM VITAE

Selwyn Piramuthu

Information Systems and Operations Management (ISOM)
University of Florida, Gainesville, FL 32611-7169
phone: (352) 392-8882 email: selwyn@ufl.edu

Education

Ph.D., May 1992, University of Illinois at Urbana-Champaign, IL.

M.S., December 1987, University of Arizona, Tucson, AZ.

B.Tech., May 1985, Indian Institute of Technology, Madras, India.

[selected] Academic/Work Experience

July 2009 - *Professor*, ISOM Department, University of Florida.

September 1998 - May 2001 *Visiting Associate Professor*, OPIM Dept., The Wharton School.

July 1997 - June 2009 *Associate Professor [Tenured]*, ISOM Department, University of Florida.

August 1991 - June 1997 *Assistant Professor*, ISOM Department, University of Florida.

Research Interests

Data Mining/Machine Learning/AI
Cold/Supply Chain Management
Computer Integrated Manufacturing
Health Care Informatics & Process Mining

RFID/IoT
Blockchain
Social Media
Privacy & Security

Teaching Interests

Data Mining/Machine Learning
Systems Analysis and Design
RFID/Supply Chain Management

Cryptography
Electronic Commerce
Data Base Management

PUBLICATIONS/PRESENTATIONS

Refereed Journals

- Tu, Y.-J., G. Kapoor, S. Piramuthu, "Security of Lightweight Mutual Authentication Protocols," *Journal of Supercomputing*, 2020.
- Yang, Y., H. Chi, W. Zhou, T. Fan, S. Piramuthu "Deterioration Control Decision Support for Perishable Inventory Management," *Decision Support Systems*, 134, July 2020.
- Doss, R., R. Trujillo-Rasua, S. Piramuthu "Secure Attribute-based Group Search in RFID based Inventory Control Systems," *Decision Support Systems*, 132, May 2020.
- Tu, Y.-J., S. Piramuthu "On Addressing RFID/NFC-based Relay Attacks: An Overview," *Decision Support Systems*, 129, February 2020.
- Tu, Y.-J., W. Zhou, S. Piramuthu, "A Novel Means to Address RFID Tag/Item Separation in Supply Chains," *Decision Support Systems*, 115, 13-23, November 2018.
- Thibaud, M., H. Chi, W. Zhou, S. Piramuthu "Internet of Things in High-risk Environment, Health and Safety (EHS) Industries: A Comprehensive Review," *Decision Support Systems*, 108, 79-95, April 2018.
- Zhu, Z., F. Chu, A. Dolgui, C. Chu, W. Zhou, S. Piramuthu "Recent Advances and Opportunities in Sustainable Food Supply Chain: A Model-oriented Review," *International Journal of Production Research*, 56(17), 5700-5722, 2018.
- Zhou, W., S. Piramuthu, "IoT Security Perspective of a Flexible Healthcare Supply Chain," *Information Technology and Management*, 19(3), 141-153, September 2018.
- Townsend, M., T.L. Quoc, G. Kapoor, H. Hu, W. Zhou, S. Piramuthu "Real-Time Business Data Acquisition: How Frequent is Frequent Enough?" *Information & Management*, 55(4), 422-429, June 2018.
- Zhang, J., S. Piramuthu, "Product Recommendation with Latent Review Topics," *Information Systems Frontiers*, 20(3), 617-625, 2018.
- Sundaresan, S., R. Doss, S. Piramuthu, W.L. Zhou, "A Secure Search Protocol for Low Cost Passive RFID Tags," *Computer Networks*, 122, 70-82, July 2017.
- Tu, Y.-J., S. Piramuthu "Non-Distance-Bounding Means to Address RFID Relay Attacks," *Decision Support Systems*, 102, 12-21, October 2017.
- Zhou, W., S. Piramuthu, F. Chu, C. Chu, "RFID-Enabled Flexible Warehousing," *Decision Support Systems*, 98, 99-112, June 2017.
- Piramuthu, S., R. Doss, "On Sensor-Based Solutions for Simultaneous Presence of Multiple RFID Tags," *Decision Support Systems*, 95, 102-109, March 2017.
- Zhou, W., S. Piramuthu, "Identification Shrinkage in Inventory Management: An RFID-based Solution," *Annals of Operations Research*, 258(2), 285-300, 2017.
- Wong, T.Y.T., G. Peko, D. Sundaram, S. Piramuthu, "Mobile Environments and the Innovation Co-creation Processes & Ecosystems," *Information & Management*, 53(3), 336-344, April 2016.
- Sundaresan, S., R. Doss, S. Piramuthu, W.L. Zhou, "Secure Tag Search in RFID Systems Using Mobile Readers," *IEEE Transactions on Dependable and Secure Computing*, 12(2), 230-242, 2015.

- Sundaresan, S., R. Doss, W.L. Zhou, S. Piramuthu, "Secure Ownership Transfer for Multi-Tag Multi-Owner Passive RFID Environment with Individual-Owner-Privacy," *Computer Communications*, 55, 112-124, 2015.
- Piramuthu, S., A. Rizzi, G. Vignali, A. Volpi, "Benchmarking of RFID Devices for Apparel Applications: An Experimental Approach," *International Journal of RF Technologies: Research and Applications*, 6(2-3), 151-169, 2015.
- Zhou, W., S. Piramuthu, "Effects of Ticket-Switching on Inventory Management: Actual vs. Information System-based Data," *Decision Support Systems*, 77, 31-40, September 2015.
- Sadovykh, V., D. Sundaram, S. Piramuthu, "Do Decision-Making Structure and Sequence Exist in Health Online Social Networks?" *Decision Support Systems*, 74, 102-120, June 2015.
- Sadovykh, V., D. Sundaram, S. Piramuthu, "Do Online Social Networks Support Decision-Making?" *Decision Support Systems*, 70, 15-30, February 2015.
- Zhou, W., S. Piramuthu, "Effect of Ticket-Switching on Inventory and Shelf-Space Allocation," *Decision Support Systems*, 69, 31-39, January 2015.
- Zhou, W., S. Piramuthu, "Information Relevance Model of Customized Privacy for IoT," *Journal of Business Ethics*, 131(1), 19-30, 2015.
- Zhou, W., W. Duan, S. Piramuthu, "A Social Network Matrix for Implicit and Explicit Social Network Plates," *Decision Support Systems*, 68, 89-97, December 2014.
- Urien, P. and S. Piramuthu, "Elliptic Curve-Based RFID/NFC Authentication with Temperature Sensor Input for Relay Attacks," *Decision Support Systems*, 59, pp. 28-36, March 2014.
- Eryarsoy, E., S. Piramuthu, "Experimental Evaluation of Sequential Bias in Online Customer Reviews," *Information & Management*, 51, 964-971, 2014.
- Sundaresan, S., R. Doss, S. Piramuthu, W.L. Zhou, "A Robust Grouping Proof Protocol for RFID EPC C1G2 Tags," *IEEE Transactions on Information Forensics and Security*, 9(6), pp. 961-975, June 2014.
- Piramuthu, S., S. Wochner, M. Grunow, "Should Retail Stores also RFID-Tag 'Cheap' Items?" *European Journal of Operational Research*, 233, 281-291, 2014.
- Zhou, W., and S. Piramuthu, "Consumer Preference and Service Quality Management with RFID," *Annals of Operations Research*, 216, 35-51, 2014.
- Grunow, M. and S. Piramuthu, "RFID in Highly Perishable Food Supply Chains - Remaining Shelf Life to Supplant Expiry Date?" *International Journal of Production Economics*, 146, pp. 717-727 2013.
- Bureau, S., W. Zhou, S. Piramuthu, "Item-level RFID in Retailing: What can B&M Retailers Learn from Online Retailers?" *International Journal of RF Technologies: Research and Applications*, 5(1-2), pp. 107-122, 2013.
- Suh, W.S., E.J. Yoon, S. Piramuthu, "RFID-based Attack Scenarios in Retailing, Healthcare and Sports," *Journal of Information Privacy and Security*, 9(3), pp. 4-17, 2013.
- Zhou, W. and S. Piramuthu, "Remanufacturing with RFID Item-Level Information: Optimization, Waste Reduction, and Quality Improvement," *International Journal of Production Economics*, 145(2), pp. 647-657, 2013.

- Piramuthu, S. and W. Zhou, "RFID and Perishable Inventory Management with Shelf-Space & Freshness Dependent Demand," *International Journal of Production Economics*, 144(2), pp. 635-640, 2013.
- Zhou, W. and S. Piramuthu, "Technology Regulation Policy for Business Ethics: An Example of RFID," *Journal of Business Ethics*, 116(2), pp. 327-340, 2013.
- Piramuthu, S., P. Farahani, M. Grunow, "RFID-generated Traceability for Contaminated Product Recall in Perishable Food Supply Networks," *European Journal of Operational Research*, 225, pp. 253-262, 2013.
- Zhou, W. and S. Piramuthu, "Preventing Ticket-Switching of RFID-tagged Items in Apparel Retail Stores," *Decision Support Systems*, 55(3), pp. 802-810, June 2013.
- Zhou, W., E.J. Yoon and S. Piramuthu, "Simultaneous Multi-level RFID Tag Ownership & Transfer in Health Care Environments," *Decision Support Systems*, 54(1), pp. 98-108, December 2012.
- Piramuthu, S., G. Kapoor, W. Zhou, and S. Mauw, "Input Online Review Data and Related Bias in Recommender Systems," *Decision Support Systems*, 53(3), pp. 418-424, June 2012.
- Piramuthu, S., "Passive Enumeration of Secret Information in LMAP and M²AP RFID Authentication Protocols," *Journal of Information Privacy and Security*, 7(3), pp. 4-15, 2012.
- Wickboldt, A., S. Piramuthu, "Patient Safety Through RFID: Vulnerabilities in Recently Proposed Grouping Protocols," *Journal of Medical Systems*, 36(2), pp. 431-435, 2012.
- Shafiei, F., D. Sundaram, S. Piramuthu, "Multi-Enterprise Collaborative Decision Support System," *Expert Systems with Applications*, 39(9), pp. 7637-7651, 2012.
- Zhou, W. and S. Piramuthu, "Manufacturing with Item-Level RFID Information: From Macro to Micro Quality Control," *International Journal of Production Economics*, 135(2), pp. 929-938, 2012.
- Kapoor, G. and S. Piramuthu, "Single RFID Tag Ownership Transfer Protocols," *IEEE Transactions on Systems, Man, and Cybernetics-C*, 42(2), pp. 164-173, 2012.
- Piramuthu, S., "Vulnerabilities of RFID Protocols Proposed in ISF," *Information Systems Frontiers*, 14(3), pp. 647-651, 2012.
- Kapoor, G., and S. Piramuthu, "Vulnerabilities in Chen and Deng's RFID Mutual Authentication and Privacy Protection Protocol," *Engineering Applications of Artificial Intelligence*, 24, pp. 1300-1302, 2011.
- Bureau, S., Y. Meiller, W. Zhou, and S. Piramuthu, "Performance Drivers for RFID-Generated Item-Level Information in the Oil Industry," *Journal of Organizational Computing and Electronic Commerce*, 21(4), pp. 295-314, 2011.
- Kapoor, G., W. Zhou, and S. Piramuthu, "Multi-tag & Multi-owner RFID Ownership Transfer in Supply Chains," *Decision Support Systems*, 52(1), pp. 258-270, December 2011.
- Meiller, Y., S. Bureau, W. Zhou, and S. Piramuthu, "Adaptive Knowledge-based System for Health Care Applications with RFID-generated Information," *Decision Support Systems*, 51(1), pp. 198-207, April 2011.
- Piramuthu, S., "RFID Mutual Authentication Protocols," *Decision Support Systems*, 50(2), pp. 387-393, January 2011.
- Tu, Y.-J., and S. Piramuthu, "A Decision Support Model for Filtering RFID Read Data in Supply Chains," *IEEE Transactions on Systems, Man, and Cybernetics-C*, 41(2), pp. 268-273, March 2011.

- Sundaram, D., W. Zhou, S. Piramuthu, and S. Pienaar, "Knowledge-based RFID-enabled Web Service Architecture for Supply Chain Management," *Expert Systems with Applications*, 37, pp. 7937-7946, 2010.
- Kapoor, G., and S. Piramuthu, "Vulnerabilities in Some Recently Proposed RFID Ownership Transfer Protocols," *IEEE Communications Letters*, 14(3) pp. 260-262, March 2010.
- Zhou, W., and S. Piramuthu, "Framework, Strategy, and Evaluation of Health Care Processes with RFID," *Decision Support Systems*, 50(1), pp. 222-233, December 2010.
- Ahmed, D.M., D. Sundaram, and S. Piramuthu, "Knowledge-based Scenario Management - Process and Support," *Decision Support Systems*, 49(4), pp. 507-520, November 2010.
- Zhou, W., Y.-J. Tu, and S. Piramuthu, "RFID-Enabled Item-level Retail Pricing," *Decision Support Systems*, 48(1), pp. 169-179, December 2009.
- Tu, Y.-J., W. Zhou, and S. Piramuthu, "Identifying RFID-Embedded Objects in Pervasive Healthcare Applications," *Decision Support Systems*, 46(2), pp. 586-593, January 2009.
- Kapoor, G., W. Zhou, and S. Piramuthu, "Challenges Associated with RFID Implementations in Supply Chains," *European Journal of Information Systems*, 18, pp. 526-533, 2009.
- Zhou, W., G. Kapoor, and S. Piramuthu, "RFID Enabled Item-Level Product Information Revelation," *European Journal of Information Systems*, 18, pp. 570-577, 2009.
- Emerson, D., W. Zhou, and S. Piramuthu, "Goodwill, Inventory Penalty, and Adaptive Supply Chain Management," *European Journal of Operational Research*, 199(1), pp. 130-138, 2009.
- Piramuthu, S. and M.J. Shaw, "Learning-Enhanced Adaptive DSS: A Design Science Perspective," *Information Technology & Management*, 10(1), pp. 41-54, 2009.
- Piramuthu, S., and R. Sikora, "Iterative Feature Construction for Improving Inductive Learning Algorithms," *Expert Systems with Applications*, 36, pp. 3401-3406, 2009.
- Kapoor, G., and S. Piramuthu, "Sequential Bias in Online Product Reviews," *Journal of Organizational Computing and Electronic Commerce*, 19(2), pp. 85-95, 2009.
- Zhang, J., S. Bandyopadhyay, and S. Piramuthu, "Real Option Valuation on Grid Computing," *Decision Support Systems*, 46(1), pp. 333-343, December 2008.
- Tu, Y.-J., and S. Piramuthu, "Reducing False Reads in RFID-Embedded Supply Chains," *Journal of Theoretical and Applied Electronic Commerce Research*, 3(2), pp. 60-70, August 2008.
- Piramuthu, S., "Adaptive Framework for Collisions in RFID Tag Identification," *Journal of Information & Knowledge Management*, 7(1), pp. 9-14, March, 2008.
- Piramuthu, S., "Lightweight Cryptographic Authentication in Passive RFID-Tagged Systems," *IEEE Transactions on Systems, Man, and Cybernetics*, 38(3), pp. 360-376, 2008.
- Piramuthu, S., "Input Data for Decision Trees," *Expert Systems with Applications*, 34(2), pp. 1220-1226, 2008.
- Piramuthu, S., "Protocols for RFID Tag/Reader Authentication," *Decision Support Systems*, 43(3), pp. 897-914, April 2007.
- Sikora, R., and S. Piramuthu, "Framework for Efficient Feature Selection in Genetic Algorithm based Data Mining," *European Journal of Operational Research*, 180, pp. 723-737, 2007.

- Piramuthu, S., "On Preprocessing Data for Financial Credit Risk Evaluation," *Expert Systems with Applications*, 30(3), pp. 489-497, 2006.
- Piramuthu, S., "Machine Learning for Dynamic Multi-Product Supply Chain Formation," *Expert Systems with Applications*, 29(4), pp. 985-990, 2005.
- Piramuthu, S., "Knowledge-based Web-enabled Agents and Intelligent Tutoring Systems," *IEEE Transactions on Education*, 48(4), pp. 750-756, 2005.
- Sikora, R., and S. Piramuthu, "Efficient Genetic Algorithm Based Data Mining using Feature Selection with Hausdorff Distance," *Information Technology and Management*, 6(4), pp. 315-331, 2005.
- Piramuthu, S., "Feature Selection for Reduction of Tabular Knowledge-Based Systems," *Information Technology and Management*, 6(4), pp. 351-362, 2005.
- Piramuthu, S., "Knowledge-Based Framework for Automated Dynamic Supply Chain Configuration," *European Journal of Operational Research*, 165, pp. 219-230, 2005.
- Piramuthu, S., "Knowledge-based Framework for Validating Workflow Sequences," *Journal of Information & Knowledge Management*, 3(3), pp. 1-6, September 2004.
- Piramuthu, S., "Feature Construction for Reduction of Tabular Knowledge-Based Systems," *Information Sciences*, 168, pp. 201-215, 2004.
- Piramuthu, S., "Evaluating Feature Selection Methods for Learning in Data Mining Applications," *European Journal of Operational Research*, 156, pp. 483-494, 2004.
- Piramuthu, S. "On Learning to Predict Web Traffic," *Decision Support Systems*, 35(2), pp. 213-229, May 2003.
- Park, S. C., S. Piramuthu and M. J. Shaw, "Dynamic Rule Refinement in Knowledge-Based Data Mining Systems," *Decision Support Systems*, 31(2), pp. 205-222. June 2001.
- Watson-Manheim, M.B., S. Piramuthu and S. Narasimhan, "Exploratory Analysis of Factors Influencing Performance Dynamics of Telecommuters and Traditional Office Workers," *IEEE Transactions on Systems, Man and Cybernetics: Part-C*, 30(2), pp. 239-251, May 2000.
- Piramuthu, S., M. J. Shaw, and B. Fulkerson., "Information-based Dynamic Manufacturing System Scheduling," *International Journal of Flexible Manufacturing Systems*, 12(2), pp. 219-234, 2000.
- Piramuthu, S., "Feature Selection for Credit-Risk Evaluation Decisions," *INFORMS Journal on Computing*, 11(3), pp. 258-266, 1999.
- Piramuthu, S., "Financial Credit-Risk Evaluation with Neural and Neurofuzzy Systems," *European Journal of Operational Research*, 112(2), pp. 310-321, January 1999.
- Wickboldt, A., J. Bercovitch, and S. Piramuthu, "Dynamics of International Mediation: Analysis using Machine Learning Methods," *Conflict Management and Peace Science*, 17(1), pp. 49-68, 1999.
- Piramuthu, S., N. Raman and M. J. Shaw, "Decision Support System for Scheduling in a Flexible Flow Manufacturing System: Incorporation of Feature Construction," *Business Applications of Artificial Intelligence Algorithms and Models*, *Annals of Operations Research*, 78, pp. 219-234, 1998.
- Piramuthu, S., H. Ragavan, and M. J. Shaw, "Using Feature Construction to Improve the Performance of Neural Networks," *Management Science*, 44(3), pp. 416-430, March 1998.
- Wets, G., J. Vanthienen, and S. Piramuthu, "Extending a Tabular Knowledge-based Framework with Feature Selection," *Expert Systems with Applications*, 13(2), pp. 109-119, 1997.

- Lee, C.-Y., S. Piramuthu and Y.-K. Tsai, "Job Shop Scheduling with Genetic Algorithm and Machine Learning," *International Journal of Production Research*, 35(4), pp. 1171-1191, April 1997.
- Piramuthu, S., "Feature Selection and Neuro-Fuzzy Systems," *Neural Network World*, 6(2), pp.201-208, 1996.
- Sikora, R. and S. Piramuthu, "An Intelligent Fault Diagnoses System for Robotic Machines," *International Journal of Computational Intelligence and Organizations*, 1(3), pp. 144-153, 1996.
- Piramuthu, S., "Feed-Forward Neural Networks and Feature Construction with Correlation Information: An Integrated Framework," *European Journal of Operational Research*, 93(2), pp. 418-427, 1996.
- Piramuthu, S., N. Raman, and M. J. Shaw, "Learning-based Scheduling in a Flexible Manufacturing Flow Line," *IEEE Transactions on Engineering Management*, 41(2), pp. 172-182, May 1994.
- Piramuthu, S., M. J. Shaw, and J. A. Gentry, "A Classification Approach Using Multi-layered Neural Networks," *Decision Support Systems*, 11(5), pp. 509-525, June 1994.
- Piramuthu, S., N. Raman, M. J. Shaw, and S.C. Park, "Integration of Simulation Modeling and Inductive Learning in an Adaptive Decision Support System," *Decision Support Systems*, 9(1), pp. 127-142, January 1993.
- Piramuthu, S., C. Kuan, and M. J. Shaw, "Learning Algorithms for Neural-Net Decision Support," *ORSA Journal on Computing*, 5(4), pp. 361-373, Fall 1993.
- Piramuthu, S., and H. Ragavan, "Improving Connectionist Learning with Symbolic Feature Construction," *Connection Science*, 1(4), pp. 33-43, 1992.
- Shaw, M. J., J. A. Gentry, and S. Piramuthu, "Inductive Learning Methods for Knowledge-Based Decision Support: A Comparative Analysis," *Computational Economics*, 3(2), pp. 147-165, June 1990.

Chapters in Books

- Shaw, M.J., and S. Piramuthu, "A Learning-Enhanced Adaptive Decision Support System Framework," in Frada Burstein and Clyde W. Holsapple (eds.) *Handbook on Decision Support Systems - 1*, Berlin/Heidelberg: Springer-Verlag, pp. 697-717, 2008.
- Wei, C.-P., S. Piramuthu, and M.J. Shaw, "Knowledge Discovery and Data Mining," in Clyde W. Holsapple (ed.) *Handbook on Knowledge Management*, Berlin/Heidelberg: Springer-Verlag, 2002.
- Park, S. C., S. Piramuthu, N. Raman and M. J. Shaw, "Intelligent Scheduling with Machine Learning," in D. E. Brown and W. T. Scherer (eds.), *Intelligent Scheduling Systems*, 193-214, Kluwer, 1995 [refereed].
- Piramuthu, S., "Second-order Gradient Methods in Back-Propagation," in Souček (ed.), *Fast learning and Invariant Object Recognition*, 27-38, Wiley Series in Sixth Generation Computer Technology, 1992.
- Piramuthu, S., "Constructing Efficient Features for Back-Propagation," in Souček (ed.), *Fast learning and Invariant Object Recognition*, 39-46, Wiley Series in Sixth Generation Computer Technology, 1992.

Book

Piramuthu, S., W. Zhou. *RFID & Sensor Network Automation in the Food Industry*. John Wiley & Sons, ISBN (hard copy: 9781118967409; ePDF: 9781118967416; epub: 9781118967430; oBook: 9781118967423), 2016.

Edited Conference Proceedings

Jacob, I.J., S.K. Shanmugam, S. Piramuthu, P. Falkowski-Gilski *Data Intelligence and Cognitive Informatics*, Springer AIS, ISBN: 978-981-15-8529-6, 2020.

Urien, P., S. Piramuthu. *Proceedings of the Sixth International Conference on Mobile and Secure Services (MobiSecServ)*, IEEE Explore, ISBN: 978-1-7281-5797-9, 2020.

Thampi, S.M., R.M. Hegde, S. Krishnan, J. Mukhopadhyay, V. Chaudhary, O. Marques, S. Piramuthu, J.M. Corchado. *Advances in Signal Processing and Intelligent Recognition Systems*, Springer CCIS 1209, ISBN: 978-981-15-4828-4, 2019.

Doss, R., S. Piramuthu, W. Zhou. *Proceedings of the Fifth International Conference on Future Network Systems and Security (FNSS)*, Springer CCIS 1113, ISBN: 978-3-030-34352-1, 2019.

Urien, P., S. Piramuthu. *Proceedings of the Fifth International Conference on Mobile and Secure Services (MobiSecServ)*, IEEE Explore, ISBN: 978-1-5386-7700-1, 2019.

Thampi, S.M., R.M. Hegde, S. Krishnan, J. Mukhopadhyay, V. Chaudhary, O. Marques, S. Piramuthu, J.M. Corchado. *Advances in Signal Processing and Intelligent Recognition Systems*, Springer CCIS 1209, ISBN: 978-3-319-11217-6, 2019.

Doss, R., S. Piramuthu, W. Zhou. *Proceedings of the Fourth International Conference on Future Network Systems and Security (FNSS)*, Springer CCIS 878, ISBN: 978-3-319-94420-3, 2018.

Urien, P., S. Piramuthu. *Proceedings of the Fourth International Conference on Mobile and Secure Services (MobiSecServ)*, IEEE Explore, ISBN: 978-1-5386-3253-6, 2018.

Doss, R., S. Piramuthu, W. Zhou. *Proceedings of the Third International Conference on Future Network Systems and Security (FNSS)*, Springer CCIS 759, ISBN: 978-3-319-65547-5, 2017.

Urien, P., S. Piramuthu. *Proceedings of the Third International Conference on Mobile and Secure Services (MobiSecServ)*, IEEE Explore, ISBN: 978-1-5090-3632-5, 2017.

Doss, R., S. Piramuthu, W. Zhou. *Proceedings of the Second International Conference on Future Network Systems and Security (FNSS)*, Springer CCIS 670, ISBN: 978-3-319-48020-6, 2016.

Urien, P., S. Piramuthu. *Proceedings of the Second International Conference on Mobile and Secure Services (MobiSecServ)*, IEEE Explore, ISBN: 978-1-4673-9684-4, 2016.

Doss, R., S. Piramuthu, W. Zhou. *Proceedings of the First International Conference on Future Network Systems and Security (FNSS)*, Springer CCIS 523, ISBN: 978-3-319-19209-3, 2015.

Urien, P., S. Piramuthu. *Proceedings of the First International Conference on Mobile and Secure Services (MobiSecServ)*, IEEE Explore, ISBN: 978-1-4799-7428-3, 2015.

El-Alfy, E.-S., S.M. Thampi, H. Takagi, S. Piramuthu, T. Hanne. *Advances in Intelligent Informatics*, Springer AISC 320, ISBN: 978-3-319-11217-6, 2014.

Conference/Workshop Presentations [refereed]

- Zhou, W., S. Piramuthu, "Big Data: Does BIG Matter for Your Business?" *Proceedings of the Symposium on Machine Learning and Metaheuristic Algorithms, and Applications (SoMMA)*, Chennai, Springer CCIS, 2020.
- Tu, Y.-J., H. Chi, W. Zhou, G. Kapoor, E. Eryarsoy, S. Piramuthu, "Critical Evaluation of RFID Applications in Healthcare," *Proceedings of the Fifth International Conference on Future Network Systems and Security (FNSS)*, Melbourne, Springer CCIS 1113, pp. 231-239, 2019.
- Piramuthu, S. "Addressing Relay Attacks without Distance-bounding in RFID tag Inclusion/Exclusion Scenarios," *Proceedings of the Fourth International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS)*, Bangalore, Springer CCIS 968, pp. 147-156, 2018.
- Piramuthu, S. "Authentication Protocols for an Object with Dynamic RFID Tags," *Proceedings of the Fourth International Conference on Future Network Systems and Security (FNSS)*, Paris, Springer CCIS 878, pp. 82-90, 2018.
- Piramuthu, S. "RFID-based Non-repudiation Protocols for Supply Chains," *Proceedings of the Third International Conference on Future Network Systems and Security (FNSS)*, Gainesville, Florida, Springer CCIS 759, pp. 56-69, 2017.
- Chi, H., W. Zhou, S. Piramuthu, "Temporal Ownership Boundary in Sharing Economy," *Proceedings of the Fifteenth Workshop on eBusiness (WeB2016)*, Dublin, LNBIP 296, Springer, pp. 54-66, 2016.
- Piramuthu, S., "RFID and Ambient Sensors to Address Food Wastage and Related Environmental Effects," *Neogeogenesis*, Chennai, 2 September 2016.
- Zhou, W., F. Alexandre-Bailly, S. Piramuthu, "Dynamic Organizational Learning with IoT and Retail Social Network Data," *Proceedings of the 49th Hawaii International Conference on System Sciences (HICSS-49)*, Kauai, IEEE Computer Society, pp. 3822-3828, 2016.
- Zhou, W. and S. Piramuthu, "IoT and Supply Chain Traceability," *Proceedings of the First International Conference on Future Network Systems and Security (FNSS)*, Paris, Springer CCIS 523, pp. 156-165, 2015.
- Kapoor, G., W. Zhou, S. Piramuthu, "RFID-based Item-level Big Data and Carbon Footprint in Perishable Food Cold Chains," *7th International Congress of Environmental Research (ICER)*, Bangalore, 2014.
- Zhou, W. and S. Piramuthu, "Security/Privacy of Wearable Fitness Tracking IoT Devices," *First Workshop on Internet of Things (IoT) at the 9th Iberian Conference on Information Systems and Technologies (CISTI)*, Barcelona, IEEE Explore, 2014.
- Urien, P. and S. Piramuthu, "Towards Cloud of Secure Elements," *First International Workshop on Mobile Applications, Secure Elements and Near Field Communication (MobiSecNFC)*, Gainesville, Florida, 2014.
- Urien, P. and S. Piramuthu, "Securing NFC Mobile Services with Cloud of Secure Elements (CoSE)," *Proceedings of the Workshop on the Near Field Communication for Mobile Applications at MobiCASE*, Paris, Springer LNICST 130, pp. 322-331, 2013.
- Urien, P. and S. Piramuthu, "Identity-Based Authentication to Address Relay Attacks in Temperature Sensor-enabled Smartcards," *Proceedings of the IEEE European Conference on Smart Objects, Systems and Technologies (Smart SysTech)*, Erlangen/Nuremberg, IEEE Explore, 2013.

- Urien, P. and S. Piramuthu, "Towards a Secure Cloud of Secure Elements: Concepts and Experiments with NFC Mobiles," *Proceedings of the IEEE International Conference on Collaboration Technologies and Systems (CTS)*, San Diego, pp. 166-173, 2013.
- Urien, P. and S. Piramuthu, "LLCPS and SISO: A TLS-Based Framework with RFID for NFC P2P Retail Transaction Processing," *Proceedings of IEEE RFID (RFID2013)*, Orlando, pp. 152-159, 2013.
- Urien, P. and S. Piramuthu, "Framework and Authentication Protocols for Smartphone, NFC, and RFID in Retail Transactions," *Proceedings of the IEEE Eighth International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP)*, Melbourne, pp. 77-82, 2013.
- Urien, P. and S. Piramuthu, "Internet Smart Card for Perishable Food Cold Supply Chain," *Proceedings of the IEEE Eighth International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP)*, Melbourne, pp. 83-88, 2013.
- Eryarsoy, E. and S. Piramuthu, "Framework for Input Data Selection in Recommender System," *Proceedings of the Yale-Great Lakes Research Conference*, Chennai, 2012.
- Mauw, S. and S. Piramuthu, "A PUF-based Authentication Protocol to Address Ticket-Switching of RFID-tagged Items," *Proceedings of the 8th International Workshop on Security and Trust Management (STM)*, Pisa, Springer LNCS 7783, pp. 209-224, 2012.
- Zhou, W., and S. Piramuthu, "A Critical Evaluation of RFID in Manufacturing," *Proceedings of the International Conference on Advances in Production Management Systems (APMS)*, Rhodes Island, IFIP Springer AICT 398, pp. 41-48, 2012.
- Adrot, A., Y. Meiller, S. Bureau, W. Zhou, S. Piramuthu, "Technological Adoption Strategy for Crisis Management," *9th International Conference on Information Systems for Crisis Response and Management (ISCRAM)*, Vancouver, 2012.
- Yoon, E.J., W. Zhou, W., and S. Piramuthu, "Simultaneous Temporary and Permanent Ownership of RFID Tags," *Proceedings of the National Conference on VLSI and Image Processing (NCVLSI)*, Chennai, pp. 17-20, 2012.
- Sundaram, D., and S. Piramuthu, "IoT, RFID, and Health Care Applications," *International Conference on Information and Communication Technology (ICT)*, Chennai, 2011.
- Zhou, W., E.J. Yoon, and S. Piramuthu, "Hierarchical RFID Tag Ownership & Transfer in Supply Chains," *Proceedings of the Tenth Workshop on eBusiness (WeB2011)*, Shanghai, pp. 390-398, LNBIP, Springer, 2011.
- Zhou, W., E.J. Yoon, and S. Piramuthu, "Varying Levels of RFID Tag Ownership in Supply Chains," *Proceedings of the 3rd International Workshop on Information Systems in Distributed Environments (ISDE'11)*, Crete, pp. 228-235, Springer LNCS 7046, 2011.
- Zhou, W., and S. Piramuthu, "Remanufacturing/Refurbishing with RFID-generated Item-Level Information," *Proceedings of the International Conference on Advances in Production Management Systems (APMS)*, Stavanger, Springer LNCS, 2011.
- Zhou, W., and S. Piramuthu, "RFID and the Automation of Green Supply Chain Management," *Proceedings of the Hamburg International Conference of Logistics (HICL)*, Hamburg, 31-38, 2011.
- Zhou, W., and S. Piramuthu, "Combining Fuzzy Evidence from HB Protocol Variant for RFID Authentication in Supply Chains," *Proceedings of the 8th International Conference on Fuzzy Systems and Knowledge Discovery (FSKD'11)*, Shanghai, pp. 816-819, IEEE, 2011.

Zhou, W., and S. Piramuthu, "Protocol for Simultaneous Ownership Transfer of Multiple RFID Tags with TTP," *Proceedings of the 4th International Conference on Network Security & Applications (CNSA)*, Chennai, CCIS 196, pp. 151-156, Springer-Verlag, 2011.

Zhou, W., and S. Piramuthu, "RFID for Verifying the Absence of Prohibited Items in a Food Supply Chain," *Proceedings of the 13th International Conference on Modern Information Technology & Innovation Processes of the Enterprises (MITIP)*, Trondheim, pp. 192-201, 2011.

Zhou, W., and S. Piramuthu, "Verifying Simultaneous Presence of Two RFID Tags," *Proceedings of the National Conference on Recent Trends in Information Technology & Communication (NCR-TIC'11)*, Chennai, 2011.

Meiller, Y., S. Bureau, W. Zhou, and S. Piramuthu, "RFID-embedded Decision Support for Tracking Surgical Equipment," *Proceedings of the 44th Hawaii International Conference on System Sciences (HICSS-44)*, Kauai, IEEE Computer Society, 2011.

Piramuthu, S., "Inclusion/Exclusion Protocol for RFID Tags," *Proceedings of the 1st International Conference on Computer Science and Information Technology (COSIT)*, Bangalore, CCIS 133, pp. 431-437, Springer-Verlag, 2011.

Piramuthu, S., "Mutual Authentication of RFID Tag with Multiple Readers," *Proceedings of the 2nd International Conference on Network & Communications Security (NCS-2010)*, Chennai, CCIS 132, pp. 357-361, Springer-Verlag, 2011.

Bureau, S., M. Bick, S. Piramuthu, Y. Meiller, W. Zhou, S.F. Wamba, "Radio Frequency Identification: A Case for Health Care," *Proceedings of the Emerging Research Projects and Work in Progress Symposium (ERPAS) at the 12th International Conference on Information Integration and Web-based Applications & Services (iiWAS2010)*, Paris, ACM, pp. 875-878, 2010.

Zhou, W., and S. Piramuthu. "Remanufacturing Decision Support System with RFID," *Proceedings of the 1st International Conference on Computational Logistics*, Shanghai, LNCS Springer 2010.

Piramuthu, S., "Relay Attack-Resisting Inclusion/Exclusion Protocol for RFID," *2nd International Workshop on Dynamic Networks: Algorithms and Security (DYNAS2010)*, Bordeaux, 2010.

Piramuthu, S., "Sequential Bias, Online Product Review, and Recommender Systems," *Proceedings of the Workshop on Data Mining in Marketing (DMM'2010) at the Industrial Conference on Data Mining (ICDM2010)*, Berlin, pp. 5-13, IBAI Publishing, 2010.

Piramuthu, S., "Variation of HB Authentication Protocol for Multiple RFID Tags," *Proceedings of the International Conference on Advanced and Emerging Trends in Computing Technologies (ICAET10)*, Chennai, 2010.

Zhou, W., and S. Piramuthu, "Effective Remanufacturing via RFID," *Proceedings of the European Workshop on RFID Systems and Technologies (RFID-SysTech2010)*, Ciudad Real, 2010.

Meiller, Y., S. Bureau, W. Zhou, and S. Piramuthu, "Decision Support with RFID for Health Care," *Proceedings of the 2nd International Conference on Networks & Communications (NeCoM-2010)*, Chennai, pp. 243-249, CCIS 90, Springer-Verlag, 2010 - Keynote Speaker.

Zhou, W., and S. Piramuthu. "Intelligent Manufacturing with RFID," *Proceedings of the International Workshop of Advanced Manufacturing and Automation (IWAMA)*, Shanghai, 2010.

Kapoor, G., and S. Piramuthu. "Shared RFID Ownership Transfer Protocols," *Proceedings of the National Conference on Emerging Trends in IT and Communication Systems (NCET'10)*, pp. 177-180, Chennai, 2010.

- Meiller, Y., S. Bureau, W. Zhou, S. Piramuthu. "Simulation of a Health Care Knowledge-based System with RFID-generated Information," *Proceedings of the Asian Simulation Technology Conference (ASTECC2010)*, pp. 110-114, Shanghai, 2010.
- Piramuthu, S., and W. Zhou. "Optimistic Dynamic Inference Control," *Proceedings of the Workshop on Information Security & Privacy (WISP2009)*, pp. 9.1-9.6, Phoenix, 2009.
- Zhou, W., and S. Piramuthu. "Remanufacturing with RFID Item-Level Information," *Proceedings of the Eighth Workshop on eBusiness (WeB2009)*, Phoenix, LNBIP-Springer, 2009.
- Zhou, W., and S. Piramuthu. "RFID Item-Level Information Sharing and Coordination," *Proceedings of the 3rd Jornadas Científicas sobre RFID*, pp. 31-38, Bilbao, 2009.
- Kapoor, G., and S. Piramuthu. "A Secure Ownership Transfer Protocol for RFID," *Proceedings of the 3rd Jornadas Científicas sobre RFID*, pp. 73-79, Bilbao, 2009.
- Zhou, W., and S. Piramuthu. "Health Care Process Mining with RFID," *Proceedings of the 2nd International Workshop on Event-Driven Business Process Management (edBPM09)*, Ulm, LNBIP 43, pp. 405-411, Springer-Verlag, 2009.
- Kapoor, G., and S. Piramuthu. "Vulnerabilities in Some Recently Proposed RFID Ownership Transfer Protocols," *Proceedings of the 1st International Workshop on Wireless & Mobile Networks (WiMoNe)*, Chennai, IEEE Computer Society, 2009.
- Zhou, W., G. Kapoor, and S. Piramuthu. "Modified Slotted ALOHA Protocol for RFID Tag Collisions," *Proceedings of the 4th International Conference for Internet Technology and Secured Transactions (ICITST-2009)*, London, 2009.
- Sundaram, D., F. Shafiei, S. Piramuthu. "Implementing a Multi-Enterprise Collaborative DSS," *Proceedings of the 1st workshop on Service-Oriented Business Networks and Ecosystems (SOBNE)* at EDOC, pp. 220-229, Auckland, IEEE Computer Society, 2009.
- Sundaram, D., W. Zhou, S. Piramuthu, and S. Pienaar. "Web Services-based Architecture for RFID Applications," *Proceedings of the workshop on Middleware for Web Services (MWS)* at EDOC, pp. 100-106, Auckland, IEEE Computer Society, 2009.
- Sundaram, D., W. Zhou, S. Piramuthu, and S. Pienaar. "On Building a Web Services-based Prototype for RFID Applications," *Proceedings of the Workshop on RFID Technology (RFID'09) at the 5th International Conference on Intelligent Environments (IE09)*, pp. 109-115, Barcelona, 2009.
- Zhou, W., and S. Piramuthu. "RFID and Real-Time CRM," *Proceedings of the Workshop on RFID Technology (RFID'09) at the 5th International Conference on Intelligent Environments (IE09)*, pp. 125-133, Barcelona, 2009.
- Kapoor, G., and S. Piramuthu. "An Ownership Sharing Protocol for RFID without a Trusted Third Party," *Proceedings of the International Conference on Computer and Network Technology (ICCNT)*, Chennai, pp. 28-30, World Scientific Press, 2009 - Keynote Speaker.
- Zhou, W., G. Kapoor, and S. Piramuthu. "Challenges Associated with Radio-Frequency Identification Tag Implementations in Supply Chains," *Proceedings of the National Conference on Recent Trends in Information Technology and Communication (NCRCTIC)*, pp. 116-120, Chennai, 2009.
- Zhou, W., G. Kapoor, and S. Piramuthu. "RFID-Enabled Dynamic Retail Pricing," *Proceedings of the 7th Workshop on e-Business (WeB2008)*, Paris, 2008.
- Zhou, W., G. Kapoor, and S. Piramuthu. "RFID Tags and eManufacturing," *Proceedings of the 2nd International and 23rd All India Manufacturing Technology, Design and Research Conference (AIMTDR'08)*, pp. 1067-1073, Chennai, 2008.

- Kapoor, G., and S. Piramuthu. "Protocols for Objects with Multiple RFID Tags," *The Sixteenth International Conference on Advanced Computing and Communication (ADCOM08)*, Chennai, pp. 208-213, IEEE Press, 2008.
- Tu, Y.-J., and S. Piramuthu. "A Decision Support Model for Filtering RFID Read Data," *The Sixteenth International Conference on Advanced Computing and Communication (ADCOM08)*, Chennai, pp. 221-224, IEEE Press, 2008.
- Kapoor, G., W. Zhou, and S. Piramuthu. "RFID and Information Security in Supply Chains," *Proceedings of the 4th International Conference on Mobile Ad-hoc and Sensor Networks (MSN'08)*, Wuhan, pp. 59-62, IEEE Press, 2008.
- Kapoor, G., W. Zhou, and S. Piramuthu. "Distance Bounding Protocols for Multiple RFID Tag Authentication," *Proceedings of the 2008 IEEE/IFIP International Symposium on Trust, Security and Privacy for Pervasive Applications (TSP08)*, Shanghai, pp. 115-120, IEEE Press, 2008.
- Piramuthu, S. "Anticollision Algorithm for RFID Tags," *Proceedings of the National Conference on Mobile and Pervasive Computing (CoMPC-2008)*, pp. 116-118, Chennai, 2008.
- Sundaram, D., S. Pienaar, and S. Piramuthu. "Web Services Based Workflow Architecture for RFID Applications using Service Chains," *Proceedings of the 5th International Conference on Service Systems and Service Management (ICSSSM'08)*, Melbourne, 2008.
- Tu, Y.-J., and S. Piramuthu. "Addressing False RFID Reads in Supply Chains," *Proceedings of the Hamburg International Conference of Logistics (HICL)*, pp. 387-398, Hamburg, Erich Schmidt Verlag, 2008.
- Tu, Y.-J., and S. Piramuthu. "Improving Accuracy of RFID Tag Identification," *Proceedings of the International Conference on Information and Communication Technology in Electrical Sciences (ICTES)*, pp. 692-696, Chennai, IEEE Press, 2007.
- Tu, Y.-J., and S. Piramuthu. "On Improving the Accuracy of RFID Tag Identification in Supply Chain Applications," *International Conference on Trends in Information Sciences and Computing (TISC)*, Chennai 2007.
- Tu, Y.-J., and S. Piramuthu. "RFID Distance Bounding Protocols," *Proceedings of the First International EURASIP Workshop on RFID Technology (RFID2007)*, pp. 67-68, Vienna, 2007.
- Piramuthu, S., and Y.-J. Tu. "Modified HB Authentication Protocol," *Proceedings of the Western European Workshop on Research in Cryptology*, pp. 41-44, Bochum, 2007.
- Piramuthu, S., "On Sequential Bias in Web-based Reviews," *Proceedings of the 5th Atlantic Web Intelligence Conference (AWIC2007)*, pp. 298-303, Fontainebleau, Springer, 2007.
- Piramuthu, S., "Knowledge-based eManufacturing Systems," *Proceedings of the International Conference on Advances in Mechanical Engineering (ICAME)*, pp. 249-254, Chennai, 2006.
- Sikora, R., and S. Piramuthu, "Genetic Algorithm-based Learning using Feature Construction," *INFORMS AI/DM Workshop*, Pittsburgh, 2006.
- Piramuthu, S., "HB and Related Lightweight Authentication Protocols for Secure RFID Tag/Reader Authentication," *Proceedings of the Conference on Collaborative Electronic Commerce Technology and Research (COLLECTer Europe)*, pp. 239-247, Basel, 2006.
- Piramuthu, S., "On Existence Proofs for Multiple RFID Tags," *IEEE International Conference on Pervasive Services (ICPS'06)*, pp. 317-320, Lyon, 2006.

- Piramuthu, S., "Using Knowledge-base and Auction Mechanisms in Agent-Based Framework for Supply Chain Management," *Agent Oriented Information Systems Workshop at the 18th Conference on Advanced Information Systems Engineering (CAISE'06)*, pp. 76-83, Luxembourg, 2006.
- Piramuthu, S., "On RFID Tags, Competitive Advantage, and Supplier Integration," *International Conference on Innovative New Product Development: Engineering Meets Marketing*, Chennai, 2005.
- Piramuthu, S., "Machine Learning for Dynamic Multi-Product Supply Chain Formation," *17th IMACS World Conference - Scientific Computation, Applied Mathematics and Simulation*, Paris, 2005.
- Piramuthu, S., "Adaptive RFID Tag Identification for eCommerce Applications," *EUROMEDIA E-TEC Conference*, pp. 143-145, Toulouse, 2005.
- Piramuthu, S., "Knowledge-Based Web-Enabled Agents and Intelligent Tutoring Systems," *3rd European Conference on e-Learning*, Paris, 2004.
- Emerson, D., and S. Piramuthu, "Agent-Based Framework for Dynamic Supply Chain Configuration," *Hawaii International Conference on System Sciences - HICSS-37*, Vol. 7, Kona, 2004.
- Piramuthu, S., "Dimensionality Reduction by Clustering for Learning," *Eleventh International Conference on Advanced Computing and Communications (ADCOM2003)*, Coimbatore, 2003.
- Piramuthu, S., "Knowledge-based Framework for Automated Supply Chain Configuration," *International Conference on Operations Research for Development (ICORD-2002)*, Chennai, 2002.
- Piramuthu, S., "On Automated Knowledge-based Supply Chain Configuration," *The First Workshop on e-Business (WEB-2002)*, Barcelona, 2002.
- Piramuthu, S., "On Validating Supply Chain Nodes," *26th Annual Conference of the Gesellschaft für Klassifikation (GfKl 2002)*, Mannheim, 2002.
- Piramuthu, S., "Data Mining Applications in Supply Chain Management," *Second Annual Conference on Business and Industrial Statistics*, Rimini, 2002.
- Piramuthu, S., "Evaluating Automated Supply Chain Configuration for eCommerce Applications," *9th European Conference on Information Technology Evaluation (ECITE-2002)*, Paris, 2002.
- Piramuthu, S., "Some Considerations of Input Data Characteristics for Decision Trees," presented at *Hawaii International Conference on System Sciences - HICSS-35*, Kona, 2002 and also in *the Third International Workshop on Extraction of Knowledge from Data Bases*, Porto, 2001.
- Piramuthu, S., "Knowledge-based Approach to Validating Patient Workflow Sequences in the Healthcare Industry," *EUNITE Workshop on Intelligent Systems in Patient Care*, pp. 43-48, Vienna, 2001.
- Piramuthu, S., "Knowledge-based Approach to Validating Workflow Sequences," *International Workshop on Open Enterprise Solutions: Systems, Experiences, and Organizations, OES-SEO2001*, Rome, 2001.
- Piramuthu, S., "Electronic Commerce and Data Mining: Minimum Degree Ordering for Identifying Association Rules," *Eleventh International Conference of the Information Resources Management Association (IRMA-2000)*, Anchorage, 2000.
- Piramuthu, S., "Electronic Commerce and Data Mining: Discovering Association Rules from Electronic Grocery Shopping Data," *Second Electronic Grocery Shopping Workshop - EGS99*, Charlotte, 1999.

- Piramuthu, S. and C. Lincicum, "Application of Knowledge Discovery Methods for Identifying Factory Floor Problems," *First International Workshop on Enterprise Management and Resource Planning Systems: Methods, Tools, and Architectures - EMRPS'99* Venice, 1999.
- Piramuthu, S., "The Hausdorff Distance Measure for Feature Selection in Learning Applications," *Proceedings of the Hawaii International Conference on System Sciences - HICSS-32* Maui, 1999.
- Piramuthu, S., "Evaluating Feature Selection Methods for Learning in Data Mining Applications," *Proceedings of the Hawaii International Conference on System Sciences - HICSS-31* Kohala Coast, pp. V:294-301, 1998.
- Park, S. C., J. H. Kim, M. J. Shaw, and S. Piramuthu, "A Comparative Study on Rule Refinement in Expert Systems," *Proceedings of the 4th Conference of the International Society for Decision Support Systems (ISDSS'97)*, Lausanne, 1997.
- Piramuthu, S., "Feature Construction for Verification and Validation of Tabular Knowledgebase Systems," *Proceedings of European Symposium on the Validation and Verification of Knowledge Based Systems (EUROVAV-97)*, Leuven, pp. 181-189, 1997.
- Piramuthu, S., "Effects of Feature Selection with 'Blurring' on NeuroFuzzy Systems," *Proceedings of the 7th International Workshop on Algorithmic Learning Theory (ALT'96)*, Sydney, pp. 135-142, LNCS 1160, Springer 1996.
- Piramuthu, S., "Neural versus NeuroFuzzy Systems for Credit Approval," *Proceedings of the 4th European Symposium on Artificial Neural Networks (ESANN'96)*, Bruges, pp. 55-60, 1996.
- Piramuthu, S., "The Effects of Feature Selection on Back Propagation in Feed-Forward Neural Networks," *HELNET'94-95 Proceedings*, Montelimar, pp. 150-159, 1995.
- Piramuthu, S., "Feature Selection for Back Propagation: Empirical Study Using Information-Theoretic Measures and Stepwise Multiple Regression," *Fifth Irish Neural Network Conference*, Maynooth, 1995.
- Piramuthu, S. and M. J. Shaw, "On Using Decision Tree as Feature Selector for Feed-Forward Neural Networks," *International Symposium on Integrating Knowledge and Neural Heuristics*, Pensacola, pp. 67-74, 1994.
- Piramuthu, S., "On Constructing Features and Genetic Algorithms for Sequencing in Flow Shops," *Workshop on Knowledge-based Production Planning, Scheduling, and Control - International Joint Conference on Artificial Intelligence (IJCAI-93)*, Chambéry, 1993.
- Piramuthu, S., "Feature Construction with Correlation Information: First Results using Molecular Biology Data," *Workshop on Artificial Intelligence and Genome - International Joint Conference on Artificial Intelligence (IJCAI-93)*, Chambéry, pp. 179-192, 1993.
- Ragavan, H. and S. Piramuthu, "The Utility of Feature Construction for Back-Propagation," *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI-91)*, Sydney, pp. 844-848, 1991.
- Piramuthu, S., "Feature Construction for Back-Propagation," in *Proceedings of the International Workshop on Parallel Problem Solving from Nature (PPSN)*, Dortmund, pp. 264-268, LNCS 496, Springer-Verlag, 1990.
- Park, S. C., S. Piramuthu, N. Raman, and M. J. Shaw, "Integrating Inductive Learning and Simulation in Rule-based Scheduling," *Proceedings of the International Workshop on Expert Systems in Engineering*, pp. 152-167, LNCS 462, Springer-Verlag, 1990.

Conference/Workshop/Seminar Presentations *[not refereed]*

Piramuthu, S., W. Zhou, “Deep Learning,” Keynote Talk, *Sixth IEEE International Conference on Mobile and Secure Services (MobiSecServ)*, Miami Beach, 22 February 2020.

Piramuthu, S. “IoT-generated Data and Learning Difficulty,” Keynote Talk, *11th International Conference on Advanced Computing (ICoAC)*, Chennai, 20 December 2019.

Piramuthu, S., “On Preprocessing IoT-generated Data,” Keynote Talk, *International Conference on Contemporary Practices of Technology and Management for Economic Growth (ICTMEG)*, Chennai, 7 September 2019.

Piramuthu, S., “IoT in Food Supply Chains,” Keynote Talk, *7th International Conference on Contemporary Engineering and Technology (ICCET)*, Chennai, 9 March 2019.

Piramuthu, S., “On Learning from IoT-generated Data,” Keynote Talk, *Sixth International Conference on Business Analytics and Intelligence (ICBAI)*, Bangalore, 22 December 2018.

Piramuthu, S., “RFID-based Relay Attacks,” Keynote Talk, *The Fourth International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS'18)*, Bangalore, 19-22 September 2018.

Piramuthu, S., “Value Sources in RFID-generated Item-level Information ,” Keynote Talk, *International Conference on Emerging Trends in Social, Business and Management Science Research (ICSBMR)*, Vellore, 15 June 2018.

Piramuthu, S., “The Value of RFID-generated Item-level Information in Retailing,” *3rd EURO Working Group Meeting on Retail Operations*, Eindhoven, 23-25 May, 2018.

Piramuthu, S., “Big Data in IoT Applications,” Keynote Talk, *International Conference on Computing and Information Systems (ICCIS)*, Chennai, 9 March 2018.

Piramuthu, S., “IoT and Deep Learning - Synergies and Challenges” Keynote Talk, *2nd International Conference on Intelligent Information Technologies (ICIIT 2017)*, Chennai, 22 December 2017.

Piramuthu, S., “IoT for Environmental Sustainability in Agriculture and Supply Chains,” Keynote Talk, *2nd IEEE International Conference on Environmental Management and Green Technology (ICEMGT)*, Chennai, 27 September 2017

Piramuthu, S., “RFID for Intelligent Manufacturing,” Plenary Speaker, *2nd Global Conference on Applied Computing Science & Engineering (ACSE)*, Las Palmas de Gran Canaria, 27 July 2017.

Piramuthu, S., “RFID and Machine Learning for Intelligent Manufacturing,” Keynote Talk, *International Conference on Materials Manufacturing and Modeling (ICMMM)*, Vellore, 9 March 2017.

Piramuthu, S., “Some Challenges in Big Data Analysis,” Keynote Talk, *IEEE International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT)*, Chennai, 3-5 March 2016.

Piramuthu, S., “IoT, Big (Input) Data, and Learning Complexity,” Research Seminar, *Accounting and Information Systems, University of Canterbury*, Christchurch, 3 February 2016.

Piramuthu, S., “IoT, Big (Input) Data, and Learning Complexity,” Research Seminar, *Information Systems and Operations Management, University of Auckland*, Auckland, 22 January 2016.

Piramuthu, S., “IoT and Big Data - Data Preprocessing for Reduced Learning Complexity,” Keynote Talk, *1st International Conference on Computational Methods and Software Engineering (CoMSE)*, Chennai, 28-30 December 2015.

Piramuthu, S., “Intelligent Systems Reliability through RFID/IoT,” *2nd National Conference on Reliability and safety Engineering (NCRS)*, Chennai, 8-10 October 2015.

- Piramuthu, S., "RFID in the Food Industry," Invited Talk, *International Exhibition and Conference on Food Processing, Packaging & Technology (FoodPro)*, Chennai, 28 August 2015.
- Piramuthu, S., "RFID in Green Supply Chains," Keynote Talk, *2nd International Conference on Green Technologies in Power Generation, Communication and Instrumentation (ICGPC)*, Chennai, 27 February 2015.
- Piramuthu, S., "Artificial Intelligence in Mechanical/Mechatronic Systems," Keynote Talk, *International Conference on Advances in Mechanical and Mechatronic Engineering (ICAMME)*, Coimbatore, 27 December 2014.
- Piramuthu, S., "RFID, IoT, Data Analytics in Vehicular Systems," *DriveSense'14: NSF Workshop on Large-Scale Traffic and Driving Activity Data*, Norfolk, 30-31 October 2014.
- Piramuthu, S., "RFID Systems and Ticket-Switching," Keynote Talk, *International Conference on Communication and Computing (ICCC) at IMCIET*, Bangalore, 23 August 2014.
- Piramuthu, S., "RFID Systems," Research Seminar, *Brunel Business School*, London, 29 May 2014.
- Piramuthu, S., "RFID Applications," Keynote Talk, *International Conference on Intelligent Computing Applications (ICICA)*, Coimbatore, 7 March 2014.
- Piramuthu, S., "RFID/NFC in Mobile Payment Processing," Keynote Talk, *International Conference on Innovative Trends in Electronics, Communication and Applications (ICIECA)*, Pondicherry, 27 December 2013.
- Piramuthu, S., "Ticket Switching, Item-Level RFID, and Retail Store Inventory Management," Research Seminar, *Operations Research and Business Informatics - Universität des Saarlandes*, Saarbrücken, 18 June 2013.
- Piramuthu, S., "Does RFID Help Address or Support Tag-Switching?," Research Seminar, *Sabancı School of Management*, Istanbul, 5 October 2012.
- Piramuthu, S., "The Effects of Sequential Bias in Input Data for Recommender Systems," *LCEB European Marketing Conference*, Munich, 10 August 2012.
- Piramuthu, S., "Implicit & Explicit Bias in Online Product Reviews Used in Recommender Systems," Keynote Talk, *International Conference on Advances in Computing, Communications and Informatics (ICACCI)*, Chennai, 3 August 2012.
- Piramuthu, S., "RFID and Perishable Inventory Management with Shelf-Space & Freshness Dependent Demand," presented at *4th World Conference on Production & Operations Management*, Amsterdam, 2 July 2012.
- Piramuthu, S., "PUF-based Authentication Protocol to Address Ticket-Switching of RFID-tagged Items," *SnT/SRM Research Seminar, SnT, Université du Luxembourg*, Luxembourg, 27 June 2012.
- Piramuthu, S., "RFID Systems - Introduction and Research Opportunities in Operations Management and Information Systems," *Research Seminar @ TUM School of Management, Technische Universität München*, Munich, 30 November 2011.
- Piramuthu, S., "RFID Security/Privacy in Computer-Integrated Manufacturing and Supply Chains," Keynote/Invited Talk, *Applications and Techniques in Information Security Conference (ATIS)*, Melbourne, 9 November 2011.
- Bureau, S., Y. Meiller, W. Zhou, and S. Piramuthu, "RFID in Health Care," *déjeuner recherche, ESCP-Europe*, Paris, 14 December 2010.

- Piramuthu, S., "Input Data with Sequential Bias in Recommender Systems," *SaToSS Research Seminar, SnT, Université du Luxembourg, Luxembourg*, 10 June 2010.
- Piramuthu, S., "RFID Systems and Opportunities for IS Research," Research Seminar, *Information System department of the University of North Carolina at Charlotte*, 29 January 2010.
- Bandyopadhyay, S., S. Piramuthu, and J.J. Zhang, "Real Options and Grid Computing," *INFORMS Annual Meeting*, Seattle, November 4-7, 2007.
- Zhang, J.J., S. Bandyopadhyay, and S. Piramuthu, "Real Options and Grid Computing," *International Conference on Business, Economics, and Management*, Izmir, June 13-17, 2007.
- Deane, J., and S. Piramuthu, "Inventory Control and Learning in Dynamic Supply Chain Networks," *INFORMS Annual Meeting*, San Francisco, November 13-16, 2005.
- Piramuthu, S., and F. Boylu, "Knowledge-based Supply Chain Configuration: Demand and Supply Side Dynamics," *EURO/INFORMS Joint International Meeting*, Istanbul, July 6-10, 2003.
- Sikora, R., and S. Piramuthu, "Feature Selection for Genetic Algorithms," *33rd Annual Meeting of the Decision Sciences Institute* San Diego, 2002.
- Piramuthu, S., "Data Type and Induced Decision Trees," *INFORMS National Meeting*, Miami, 2001.
- Piramuthu, S., and R. Sikora, "GA-based Feature Selection using the Hausdorff Distance Measure," *INFORMS National Meeting*, Philadelphia, PA, November 7-10, 1999.
- Vanthienen, J., G. Wets and S. Piramuthu, "Table-Based Verification and Validation of Knowledge in Data Mining," *INFORMS National Meeting*, San Diego, CA, May 4-7, 1997.
- Piramuthu, S., "Feature Selection and Classification Problems," *INFORMS National Meeting*, Atlanta, GA, November 3-6, 1996.
- Piramuthu, S., "Applications of Classification Techniques in Intelligent Systems" *invited talk, Information Systems Group, Katholieke Universiteit Leuven, Belgium*, April 23, 1996.
- Piramuthu, S., "Some Classification Applications in Manufacturing, Scheduling, Financial Credit-risk Evaluation, and Robot Failure Prediction," *invited talk, IRIDIA-Université Libre de Bruxelles, Belgium*, January 24, 1996.
- Piramuthu, S., "On Feature Construction and Feedforward Neural Networks," *INFORMS National Meeting*, New Orleans, LA, October 29 - November 1, 1995.
- Lee, C.-Y., S. Piramuthu and Y.-K. Tsai, "Global Job Shop Scheduling with Genetic Algorithm and Machine Learning," *ORSA/TIMS Joint National Meeting*, Detroit, MI, October 23-26, 1994.
- Piramuthu, S., "Genetic Algorithms for Flow Shop Scheduling," *ORSA/TIMS Joint National Meeting*, Detroit, MI, October 23-26, 1994.
- Piramuthu, S., "Effects of Preprocessing Input Data for Genetic Algorithms," *ORSA/TIMS Joint National Meeting*, Detroit, MI, October 23-26, 1994.
- Piramuthu, S., "Qualitative Reasoning for Manufacturing Scheduling," *TIMS XXXII International Meeting*, Anchorage, Alaska, June 12-15, 1994.
- Piramuthu, S., "On Locating Hubs in a Hub-and-Spokes Network using Genetic Algorithms," *TIMS XXXII International Meeting*, Anchorage, Alaska, June 12-15, 1994.
- Piramuthu, S. and M. J. Shaw, "Knowledge Acquisition with Feature Construction," *ORSA/TIMS Joint National Meeting*, Boston, MA, April 24-2, 1994.

Major, R., and S. Piramuthu, "Feature Construction in Decision Tree Induction," *The ORSA/TIMS Joint National Meeting*, Phoenix, AZ, November 1-3, 1993.

Piramuthu, S., N. Raman, and M. J. Shaw, "Feature Construction in FFS Scheduling," *The TIMS/ORSA Joint National Meeting*, Chicago, IL, May 16-19, 1993.

Park, S. C., S. Piramuthu, N. Raman and M. J. Shaw, "Intelligent Scheduling with Machine Learning," in W. T. Scherer and D. E. Brown (eds.), *Proceedings of the Intelligent Scheduling Systems Symposium*, pp. 236-267, San Francisco, CA. November 1, 1992.

Piramuthu, S., H. Ragavan, and M. J. Shaw, "Integration of Constructive Induction with Neural-Net Learning," *The ORSA/TIMS Joint National Meeting*, Anaheim, CA, November 4-6, 1991.

Piramuthu, S., N. Raman, and M. J. Shaw, "A Learning-Based Scheduling System for Printed Circuit Board Manufacturing," *The ORSA/TIMS Joint National Meeting*, Anaheim, CA, November 4-6, 1991.

Other Publications

Zhou, W., S. Piramuthu. Editorial for a Special Issue on Current Developments in RFID Research. *Journal of Organizational Computing and Electronic Commerce*, 21(4), pp. 265-267, 2011.

Bose, I., S. Piramuthu and M.J. Shaw. Editorial for a Special Issue on Quantitative Methods for Detection of Financial Fraud. *Decision Support Systems*, 50, pp. 557-558, 2010.

Chung, H.M. and S. Piramuthu, "Data Mining and Process Mining: Business Impact and Application Challenges: Minitrack Introduction," *Proceedings of the 38th Annual Hawaii International Conference on Systems Sciences (HICSS'05) - Track 3*, vol. 3, p. 74, 2005.

Piramuthu, S. and H.M. Chung, "Data and Process Mining: Minitrack Introduction," *Proceedings of the 37th Annual Hawaii International Conference on Systems Sciences (HICSS'04)*, 2004.

Piramuthu, S. and H.M. Chung, "Data Mining and Information Retrieval: Minitrack Introduction," *Proceedings of the 36th Annual Hawaii International Conference on Systems Sciences (HICSS'03)*, p. 67, 2003.

Chung, H.M., F.C. Gey and S. Piramuthu, "Data Mining and Information Retrieval: Minitrack Introduction," *Proceedings of the 35th Annual Hawaii International Conference on Systems Sciences (HICSS'02)*, p. 66, 2002.