CURRICULUM VITAE
Selwyn Piramuthu

Information Systems and Operations Management (ISOM)
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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

Supply Chain Management	RFID
Data Mining/Knowledge Discovery	Electronic Commerce
Computer Integrated Manufacturing	Health Care Informatics
Artificial Intelligence/Expert Systems	Decision Support Systems

Teaching Interests

Simulation	Electronic Commerce
Systems Analysis and Design	Data Base Management
RFID/Supply Chain Management	Data Mining/Decision Support Systems

Refereed Journals

Zhou, W. and S. Piramuthu, "Manufacturing with Item-Level RFID Information: From Macro to Micro Quality Control," *International Journal of Production Economics*, 2011.

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.

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, 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.

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, 2011.

Piramuthu, S., "Vulnerabilities of RFID Protocols Proposed in ISF," *Information Systems Frontiers*, 2011.

Kapoor, G. and S. Piramuthu, "Single RFID Tag Ownership Transfer Protocols," *IEEE Transactions on Systems, Man, and Cybernetics-C*, 2011.

Piramuthu, S., "RFID Mutual Authentication Protocols," *Decision Support Systems*, 50(2), pp. 387-393, 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.

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Zhou, W., and S. Piramuthu, "Framework, Strategy, and Evaluation of Health Care Processes with RFID," *Decision Support Systems*, 50(1), pp. 222-233, 2010.

Ahmed, D.M., D. Sundaram, and S. Piramuthu, "Knowledge-based Scenario Management - Process and Support," *Decision Support Systems*, 49(4), pp. 507-520, 2010.

Wickboldt, A., S. Piramuthu, "Patient Safety Through RFID: Vulnerabilities in Recently Proposed Grouping Protocols," *Journal of Medical Systems*, 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., Y.-J. Tu, and S. Piramuthu, "RFID-Enabled Item-level Retail Pricing," *Decision Support Systems*, 48(1), pp. 169-179, 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.

Tu, Y.-J., W. Zhou, and S. Piramuthu, "Identifying RFID-Embedded Objects in Pervasive Healthcare Applications," *Decision Support Systems*, 46(2), pp. 586-593, 2009.

Piramuthu, S., and R. Sikora, "Iterative Feature Construction for Improving Inductive Learning Algorithms," *Expert Systems with Applications*, 36, pp. 3401-3406, 2009.

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Zhang, J., S. Bandyopadhyay, and S. Piramuthu, "Real Option Valuation on Grid Computing," *Decision Support Systems*, 46(1), pp. 333-343, 2008.

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Piramuthu, S., "On Preprocessing Data for Financial Credit Risk Evaluation," *Expert Systems with Applications*, 30(3), pp. 489-497, 2006.

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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. 2001.

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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.

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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.

Conference/Workshop Presentations *[refereed]*

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, 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, 2011.

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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.

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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 (ASTEC2010)*, 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.

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Kapoor, G., and S. Piramuthu. "A Secure Ownership Transfer Protocol for RFID," *Proceedings of the 3^{as} 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 (Wi-MoNe)*, Chennai, IEEE Computer Society, 2009.

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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.

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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.

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