

Curriculum Vitae

Mei-Ling Shyu, Ph.D.
IEEE Fellow, AAAS Fellow, SIRI Fellow
Professor and Associate Chair
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HIGHER EDUCATION

1. Institutional (institution; degree; date conferred):
Purdue University; Ph.D. Electrical and Computer Engineering; August 1999
Purdue University; Master of Science (MS) in Restaurant, Hotel, Institutional and Tourism; August 1997
Purdue University; Master of Science in Electrical Engineering (MSEE); May 1995
Purdue University; Master of Science (MS) in Computer Science; August 1992

EXPERIENCE

2. Academic (institutions; rank/status; dates):
 - University of Miami, Associate Chair, 10/2013-present
 - University of Miami, Professor, 06/2013-present
 - University of Miami, Associate Professor, 06/2005-05/2013
 - University of Miami, Tenure-track Assistant Professor, 01/2000-05/2005

PUBLICATIONS

3. Books and monographs published:
 - Volumes Edited:
 - 1) Co-Editor: *Proceedings of the 2005 IEEE International Conference on Information Reuse and Integration (IRI-2005)*, August 15-17, 2005, Las Vegas, Nevada, USA, IEEE ISBN: 0-7803-9093-8.
 - 2) Co-Editor: *Proceedings of the Second ACM International Workshop on Multimedia Databases (MMDB 2004)*, November 13, 2004, Washington, DC, USA, ACM ISBN: 1-58113-975-6.
 - 3) Co-Editor: *Proceedings of the First ACM International Workshop on Multimedia Databases (MMDB 2003)*, November 7, 2003, New Orleans, Louisiana, USA, ACM ISBN: 1-58113-726-5.
 - Books:
 - 1) Shu-Ching Chen and Mei-Ling Shyu, *Multimedia Data Engineering Applications and Processing*, IGI Global, ISBN13: 9781466629400, ISBN10: 1466629401, EISBN13: 9781466629417, February 2013, 350 pages.
 - 2) Shu-Ching Chen and Mei-Ling Shyu, *Methods and Innovations for Multimedia Database Content Management*, IGI Global, ISBN13: 9781466617919, ISBN10: 1466617918, EISBN13: 9781466617926, June 2012, 363 pages.
 - Book Chapters:
 - 1) Yilin Yan, Qiusha Zhu, Mei-Ling Shyu, and Shu-Ching Chen, "Classifier Fusion by Judgers on Spark Clusters for Multimedia Big Data Classification," Edited by Stuart H. Rubin and Thouraya Bouabana-Tebibel, *Advances in Intelligent Systems and Computing*, Vol. 561, pp. 91-108, Springer Verlag, 2018, ISBN: 978-3-319-56156-1.
 - 2) Chao Chen and Mei-Ling Shyu, "Integration of Semantics Information and Clustering in Binary-class Classification for Handling Imbalanced Multimedia Data," Edited by Tansel Ozyer, Keivan Kianmehr, Mehmet Tan, and Jia Zeng, *Information Reuse and Integration in Academia and Industry*, Chapter 19, Springer Verlag, 2013, ISBN: 978-3-7091-1537-4.
 - 3) Qiusha Zhu, Mei-Ling Shyu, and Shu-Ching Chen, "Discriminative Learning Assisted Video Semantic Concept Classification," *Multimedia Security and Steganography*, Edited by Frank Shih, Chapter 2, CRC Press, 2012.
 - 4) Zifang Huang and Mei-Ling Shyu, "Long-Term Time Series Prediction Using k-NN Based LS-SVM Framework with Multi-Value Integration," Edited by Tansel Ozyer, Keivan Kianmehr and Mehmet Tan, *Recent Trends in Information Reuse and Integration*, Chapter 9, pp. 191-209, Springer Verlag, 2012.
 - 5) Min Chen, Shu-Ching Chen, and Mei-Ling Shyu, "Content-based Retrieval of Video," Edited by P. Sheu, H. Yu, C.V. Ramamoorthy, A. Joshi, and L. Zadeh, *Semantic Computing*, Chapter 3, pp. 33-48, IEEE Press/Wiley, May 2010, ISBN: 978-0-470-46495-3.

- 6) Na Zhao, Min Chen, Shu-Ching Chen, and Mei-Ling Shyu, "User Adaptive Video Retrieval on Mobile Devices," Edited by Laurence T. Yang, Agustinus Borgy Waluyo, Jianhua Ma, Ling Tan and Bala Srinivasan, *Mobile Intelligence: When Computational Intelligence Meets Mobile Paradigm*, Chapter 21, pp. 488-509, John Wiley & Sons Inc, February 2010. ISBN: 978-0-470-19555-0.
 - 7) Mei-Ling Shyu, Zifang Huang, and Hongli Luo, "Efficient Mining and Detection of Sequential Intrusion Patterns for Network Intrusion Detection Systems," Edited by J.P. Tsai and P.S. Yu, *Machine Learning in Cyber Trust: Security, Reliability, Privacy*, pp. 133-154, Springer, 2009, ISBN 978-0-387-88734-0.
 - 8) Mei-Ling Shyu and Varsha Sainani, "A Multiagent-based Intrusion Detection System with the Support of Multi-Class Supervised Classification," Edited by Longbing Cao, *Data Mining and Multiagent Integration*, Chapter 8, pp. 127-142, Springer, 2009, ISBN: 978-1-4419-0521-5.
 - 9) S.P. Subasingha, J. Zhang, K. Premaratne, M.-L. Shyu, M. Kubat, and K.K.R.G.K. Hewawasam, "Using Association Rules for Classification from Databases Having Class Label Ambiguities: A Belief Theoretic Method," Edited by Tsau Young Lin, Ying Xie, Anita Wasilewska, and Churn-Jung Liao, *Data Mining: Foundations and Practice*, pp. 539-562, Springer-Verlag, 2008, ISBN 978-3-540-78487-6.
 - 10) Min Chen, Shu-Ching Chen, Mei-Ling Shyu, and Chengcui Zhang, "Video Event Mining via Multimodal Content Analysis and Classification," Edited by Valery A. Petrushin and Latifur Khan, *Multimedia Data Mining and Knowledge Discovery*, Springer-Verlag, 2007, ISBN: 978-1-84628-436-6.
 - 11) Mei-Ling Shyu, Shu-Ching Chen, Kanoksri Sarinapakorn, and LiWu Chang, "Principal Component-based Anomaly Detection Scheme," Edited by T.Y. Lin, S. Ohsuga, C.J. Liao, and X. Hu, *Foundations and Novel Approaches in Data Mining*, pp. 311-329, Springer-Verlag, Vol. 9, 2006, ISBN: 3-540-28315-3.
 - 12) James B.D. Joshi, Mei-Ling Shyu, Shu-Ching Chen, Walid Aref, and Arif Ghaffoor, "A Multimedia-Based Threat Management and Information Security Framework," Edited by Elena Ferrari and Bhavani Thuraisingham, *Web and Information Security*, pp. 215-240, Idea Group Publishing, 2006, ISBN: 159140589-0.
 - 13) Shu-Ching Chen, Mei-Ling Shyu, and Chengcui Zhang, "Innovative Shot Boundary Detection for Video Indexing," Edited by Sagarmay Deb, *Video Data Management and Information Retrieval*, pp. 217-236, Idea Group Publishing, 2005, ISBN: 1-59140546-7.
 - 14) Mei-Ling Shyu, Shu-Ching Chen, and Chengcui Zhang, "A Stochastic Content-Based Image Retrieval Mechanism," *Multimedia Systems and Content-based Image Retrieval*, Edited by Sagarmay Deb, Idea Group Inc., publisher of the Idea Group Publishing, Information Science Publishing and IRM Press imprints, 2004, ISBN: 1-59140-265-4.
 - 15) Xin Huang, Shu-Ching Chen, Mei-Ling Shyu and Chengcui Zhang, "Mining High-Level User Concepts with Multiple Instance Learning and Relevance Feedback for Content-Based Image Retrieval," Edited by Osmar R. Zaiane, Simeon J. Simoff, Chabane Djeraba, *Data Mining from Multimedia and Complex Data*, pp. 50-67, Springer Verlag, Lecture Notes in Artificial Intelligence Volume 2797, 2003, ISBN: 3-540-20305-2.
4. Juried or refereed journal articles and exhibitions:
- 1) Samira Pouyanfar, Yudong Tao, Haiman Tian, Shu-Ching Chen, Mei-Ling Shyu, "Multimodal Deep Learning based on Multiple Correspondence Analysis for Disaster Management," *World Wide Web*, 2018, in press.
 - 2) Xue Yang, Mei-Ling Shyu, Han-Qi Yu, Shi-Ming Sun, Nian-Sheng Yin, Wei Chen, "Integrating Image and Textual Information in Human-Robot Interactions for Children with Autism Spectrum Disorder (ASD)," *IEEE Transactions on Multimedia*, in press.
 - 3) Samira Pouyanfar, Saad Sadiq, Yilin Yan, Haiman Tian, Yudong Tao, Maria Presa, Reyes, Mei-Ling Shyu, Shu-Ching Chen, S.S. Iyengar, "A Survey on Deep Learning: Algorithms, Techniques, and Applications," *ACM Computing Surveys*, Vol. 51, Issue 5, Article No. 92, September 2018.
 - 4) Haiman Tian, Yudong Tao, Samira Pouyanfar, Shu-Ching Chen, Mei-Ling Shyu, "Multimodal Deep Representation Learning for Video Classification," *World Wide Web*, 2018.
 - 5) Yimin Yang, Samira Pouyanfar, Haiman Tian, Min Chen, Shu-Ching Chen, and Mei-Ling Shyu, "IF-MCA: Importance Factor-based Multiple Correspondence Analysis for Multimedia Data Analytics," *IEEE Transactions on Multimedia*, Vol. 20, Issue 4, pp. 1024-1032, April 2018.
 - 6) Samira Pouyanfar, Yimin Yang, Shu-Ching Chen, Mei-Ling Shyu, and S. S. Iyengar, "Multimedia Big Data Analytics: A Survey," *ACM Computing Surveys*, Vol. 51, Issue 1, Article No. 10, January 2018.
 - 7) Yilin Yan and Mei-Ling Shyu, "Correlation-Assisted Imbalance Multimedia Concept Mining and Retrieval," *International Journal of Semantic Computing*, Special Issue of the IEEE International Symposium on Multimedia, Vol. 11, No. 2, pp. 209-227, June 2017.

- 8) Yilin Yan, Min Chen, Muhammad Saad Sadiq, and Mei-Ling Shyu, "Efficient Imbalanced Multimedia Concept Retrieval by Deep Learning on Spark Clusters," *International Journal of Multimedia Data Engineering and Management*, Vol. 8, No. 1, pp. 1-20, January-March 2017.
- 9) Mei-Li You, Chi-Min Shu, Wei-Ting Chen, and Mei-Ling Shyu, "Analysis of Cardinal Grey Relational Grade and Grey Entropy on Achievement of Air Pollution Reduction by Evaluating Air Quality Trend in Japan," *Journal of Cleaner Production*, Vol. 142, Part 4, pp. 3883-3889, January 2017.
- 10) Chao Chen, Mei-Ling Shyu, and Shu-Ching Chen, "Weighted Subspace Modeling for Semantic Concept Retrieval using Gaussian Mixture Models," *Information Systems Frontiers*, Special Issue of the 16th IEEE International Conference on Information Reuse and Integration (IRI 2015), Vol. 18, Issue 5, pp. 877-889, October 2016.
- 11) Yilin Yan, Mei-Ling Shyu, and Qiusha Zhu, "Supporting Semantic Concept Retrieval with Negative Correlations in a Multimedia Big Data Mining System," *International Journal of Semantic Computing*, Special Issue of the 2016 IEEE International Conference on Semantic Computing (ICSC 2016), 2016 (in press).
- 12) Chengde Zhang, Dianting Liu, Xiao Wu, Guiru Zhao, Mei-Ling Shyu, and Qiang Peng, "Near-Duplicate Segments Based News Web Video Event Mining," *Signal Processing: An International Journal*, Volume 120, pp. 26-35, March 2016.
- 13) Chengde Zhang, Xiao Wu, Mei-Ling Shyu, and Qiang Peng, "Integration of Visual Temporal Information and Textual Distribution Information for News Web Video Event Mining," *IEEE Transactions on Human-Machine Systems*, Vol. 46, No. 1, pp. 124-135, February 2016.
- 14) Mei-Ling Shyu and Shu-Ching Chen, "Guest Editors' Introduction: Emerging Multimedia Research and Applications," *IEEE MultiMedia*, Fast Track Special Issue of the 2014 IEEE International Symposium on Multimedia (ISM2014), Vol. 22, No. 4, pp. 11-13, October-December 2015.
- 15) Yonghong Tian, Shu-Ching Chen, Mei-Ling Shyu, Tiejun Huang, Phillip Sheu, Alberto Del Bimbo, "Multimedia Big Data," *IEEE MultiMedia*, Vol. 22, No. 3, pp. 93-95, July-Sept. 2015.
- 16) Ahmed T. Soliman, Tao Meng, Shu-Ching Chen, S.S. Iyengar, Puneeth Iyengar, John Yordy, Mei-Ling Shyu, "Driver Missense Mutation Identification Using Feature Selection and Model Fusion," *Journal of Computational Biology*, Vol. 22, No. 12, pp. 1075-1085, December 2015.
- 17) Qiusha Zhu and Mei-Ling Shyu, "Sparse Linear Integration of Content and Context Modalities for Semantic Concept Retrieval," *IEEE Transactions on Emerging Topics in Computing*, Vol. 3, No. 2, pp. 152-160, June 2015.
- 18) Tao Li and Mei-Ling Shyu, "Guest Editors' Introduction," *International Journal of Semantic Computing*, Special Issue of the Ninth IEEE International Conference on Semantic Computing (ICSC2015), Vol. 9, No. 3, pp. 281-282, 2015.
- 19) Mei-Ling Shyu, James Joshi, and Qiong Liu, "Guest Editors' Introduction," *International Journal of Semantic Computing*, Special Issue of the 2014 IEEE International Symposium on Multimedia (ISM2014), Vol. 9, No. 2, pp. 139-142, 2015.
- 20) Young-Sik Jeong, Mei-Ling Shyu, Guandong Xu, and Roland R. Wagner, "Guest Editorial: Advanced Technologies and Services for Multimedia Big Data Processing," *Multimedia Tools and Applications*, April 2015.
- 21) Felipe Mejia, Mei-Ling Shyu, and Antonio Nanni, "Data Quality Enhancement and Knowledge Discovery from Relevant Signals in Acoustic Emission," *Mechanical Systems and Signal Processing Journal*, Vol. 62-63, pp. 381-394, October 2015.
- 22) Dianting Liu, Yilin Yan, Mei-Ling Shyu, Guiru Zhao, and Min Chen, "Spatio-temporal Analysis for Human Action Detection and Recognition in Uncontrolled Environments" *International Journal of Multimedia Data Engineering and Management*, Vol. 6, No. 1, pp. 1-18, January-March 2015. **(Received "IGI Global's Eighth Annual Excellence in Research Journal Award - outstanding Media and Communications article for 2015")**
- 23) Mei-Ling Shyu, Giovanni Pilato, Robert Mertens, and Nadine Steinmetz, "Guest Editors' Introduction," *International Journal of Semantic Computing*, Special Issue of the Eighth IEEE International Conference on Semantic Computing (ICSC2014), Vol. 8, No. 4, pp. 385-388, 2014.
- 24) Qiusha Zhu, Mei-Ling Shyu, and Haohong Wang, "VideoTopic: Modeling User Interests for Content-based Video Recommendation," *International Journal of Multimedia Data Engineering and Management*, Vol. 5, No. 4, pp. 1-21, October-December 2014.
- 25) Tao Meng and Mei-Ling Shyu, "Multi-layer Model Collaboration for Bioimage Temporal Stage Classification," *International Journal of Semantic Computing (IJSC)*, Special Issue of the IEEE International Symposium on Multimedia (ISM2013), Vol. 8, No. 2, pp. 123-144, 2014.
- 26) Heyong Wang, Ming Hong, and Mei-Ling Shyu, "Study on the Use of Equidistant Binning on Residential Hedonic Price Discretization," *Information Technology Journal*, Vol. 13, Issue 13, pp. 2121-2128, 2014.

- 27) Zifang Huang, Mei-Ling Shyu, James M. Tien, Michael M. Vigoda, and David J. Birnbach, "Knowledge-Assisted Sequential Pattern Analysis with Heuristic Parameter Tuning for Labor Contraction Prediction," *IEEE Journal of Biomedical and Health Informatics*, Vol. 18, No. 2, pp. 492-499, March 2014.
- 28) Tao Meng and Mei-Ling Shyu, "Concept-concept Association Information Integration and Multi-model Collaboration for Multimedia Semantic Concept Detection," *Information System Frontier*, Vol. 16, Issue 5, pp. 787-799, 2014.
- 29) Tao Meng, Ahmed T. Soliman, Mei-Ling Shyu, Yimin Yang, Shu-Ching Chen, S. S. Iyengar, John Yordy, and Puneeth Iyengar, "Wavelet Analysis in Current Cancer Genome Research: A Survey," *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, Vol. 10, Issue 6, pp. 1442-1459, November/December 2013.
- 30) Mei-Ling Shyu, Giovanni Pilato, Brian Harrington, and Shlomo Dubnov, "Guest Editors' Introduction," *International Journal of Semantic Computing*, Special Issue of the Seventh IEEE International Conference on Semantic Computing (ICSC2013), Vol. 7, No. 4, pp. 349-351, 2013.
- 31) Chao Chen, Qiusha Zhu, Lin Lin, and Mei-Ling Shyu, "Web Media Semantic Concept Retrieval via Tag Removal and Model Fusion," *ACM Transactions on Intelligent Systems and Technology*, Vol. 4, Issue 4, Article No. 61, September 2013.
- 32) Chengde Zhang, Xiao Wu, Mei-Ling Shyu, and Qiang Peng, "A Novel Web Video Event Mining Framework with the Integration of Correlation and Co-occurrence Information," *Journal of Computer Science and Technology*, Vol. 28, Issue 5, pp. 788-796, September 2013.
- 33) Dianting Liu and Mei-Ling Shyu, "Semantic Motion Concept Retrieval in Non-Static Background Utilizing Spatial and Temporal Visual Information," *International Journal of Semantic Computing (IJSC)*, Vol. 7, No. 1, pp. 43-67, 2013.
- 34) Zifang Huang, Mei-Ling Shyu, James M. Tien, Michael M. Vigoda, and David J. Birnbach, "Prediction of Uterine Contractions Using Knowledge-Assisted Sequential Pattern Analysis," *IEEE Transactions on Biomedical Engineering*, Vol. 60, No. 5, pp. 1290-1297, May 2013.
- 35) Chao Chen, Lin Lin, and Mei-Ling Shyu, "Re-Ranking Algorithm for Multimedia Retrieval via Utilization of Inclusive and Exclusive Relationships between Semantic Concepts," *International Journal of Semantic Computing*, Vol. 6, Issue 2, pp. 135-154, June 2012.
- 36) Qiusha Zhu, Lin Lin, and Mei-Ling Shyu, "Correlation Maximization-based Discretization for Supervised Classification," *International Journal of Business Intelligence and Data Mining*, Inderscience Publishers, pp. 40-59, Vol. 7, Nos. 1/2, 2012.
- 37) Lin Lin, Mei-Ling Shyu, and Shu-Ching Chen, "Association Rule Mining with a Correlation-based Interestingness Measure for Video Semantic Concept Detection," *International Journal of Information and Decision Sciences*, Vol. 4, Nos. 2/3, pp. 199-216, 2012.
- 38) Lin Lin, Chao Chen, Mei-Ling Shyu, and Shu-Ching Chen, "Weighted Subspace Filtering and Ranking Algorithms for Video Concept Retrieval," *IEEE Multimedia*, Vol. 18, No. 3, pp. 32-43, July-September 2011.
- 39) Hongli Luo and Mei-Ling Shyu, "Quality of Service Provision in Mobile Multimedia - A Survey," *Human-centric Computing and Information Sciences (HCIS) Journal* 2011, 1:5.
- 40) Qiusha Zhu, Lin Lin, Mei-Ling Shyu, and Dianting Liu, "Utilizing Context Information to Enhance Content-Based Image Classification," *International Journal of Multimedia Data Engineering and Management*, Vol. 2, No. 3, pp. 34-51, July-September 2011.
- 41) Tao Meng, Mei-Ling Shyu, and Lin Lin, "Multimodal Information Integration and Fusion for Histology Image Classification," *International Journal of Multimedia Data Engineering and Management*, Vol. 2, No. 2, pp. 54-70, April-June 2011.
- 42) Dianting Liu, Mei-Ling Shyu, Chao Chen, and Shu-Ching Chen, "Within and Between Shot Information Utilization in Video Key Frame Extraction," *Journal of Information and Knowledge Management*, Vol. 10, No. 3, pp. 247-259, 2011.
- 43) Mei-Ling Shyu, Chao Chen, and Shu-Ching Chen, "Multi-Class Classification via Subspace Modeling," *International Journal of Semantic Computing*, Vol. 5, No. 1, pp. 55-78, 2011.
- 44) Mei-Ling Shyu, "Guest Editor's Introduction," *International Journal of Semantic Computing*, Special Issue of the Fourth IEEE International Conference on Semantic Computing (ICSC2010), Vol. 4, No. 4, pp. 419-421, 2010.
- 45) Lin Lin and Mei-Ling Shyu, "Correlation-based Ranking for Large-scale Video Concept Retrieval," *International Journal of Multimedia Data Engineering and Management (IJMDEM)*, Vol. 1, No. 4, pp. 60-74, October-December 2010. **(Received "The Best Published Journal Article in IJMDEM for 2010" Award)**
- 46) Gerald Friedland and Mei-Ling Shyu, "Guest Editors' Introduction," *International Journal of Semantic Computing (IJSC)*, Special Issue of the IEEE International Symposium on Multimedia (ISM2009), Vol. 4, No. 2, pp. 153-154, 2010.

- 47) Mei-Ling Shyu, Yu Cao, Ming Li, Jun Kong, and Jie Bao, "Guest Editorial," *Journal of Multimedia*, Special Issue on Data Semantics and Multimedia Information Management, Vol. 5, No. 4, pp. 299-301, August 2010.
- 48) Guy Ravitz, Mei-Ling Shyu and Mark D. Powell, "Integrating Multimedia Semantic Content Analysis of YouTube Videos with Hurricane Wind Analysis for Public Situation Awareness and Outreach," *International Journal of Software Engineering and Knowledge Engineering*, Special Issue on Information and Knowledge Reuse, Featured Topic: From Information to Knowledge, Volume 20, Issue 2, pp. 155-172, March 2010.
- 49) Lin Lin and Mei-Ling Shyu, "Weighted Association Rule Mining for Video Semantic Detection," *International Journal of Multimedia Data Engineering and Management (IJMDEM)*, Vol. 1, No. 1, pp. 37-54, January-March 2010.
- 50) Mei-Ling Shyu, Yu Cao, Jun Kong, Ming Li, Mathias Lux and Jie Bao, "Introduction to the Special Issue on 'Data Semantics for Multimedia Systems'," *Multimedia Tools and Applications*, Volume 46, Numbers 2-3, pp. 147-154, January 2010.
- 51) Lin Lin and Mei-Ling Shyu, "Effective and Efficient Video High-Level Semantic Retrieval using Associations and Correlations," *International Journal of Semantic Computing (IJSC)*, Vol. 3, No. 4, pp. 421-444, 2009.
- 52) Sheng-Hung Wu, Mei-Ling Shyu, Yet-Pole I, Jen-Hao Chi, Chi-Min Shu, "Evaluation of Runaway Reaction for Dicumyl Peroxide in a Batch Reactor by DSC and VSP2," *Journal of Loss Prevention in the Process Industries (JLPI)*, Vol. 22, Issue 6, pp. 721-727, November 2009.
- 53) Alan Hanjalic, Ying Li, Mei-Ling Shyu, and Lei Zhang, "Editorial: On Emerging Techniques for Multimedia Content Sharing, Search and Understanding," *Journal of Visual Communication and Image Representation (JVCI)*, Vol. 20, No. 2, pp. 69-70, February 2009.
- 54) Hongli Luo, Mei-Ling Shyu, and Shu-Ching Chen, "Differentiated Service Protection via Anomalous Traffic Detection," *International Journal of Electronics and Computer Systems (IJECS)*, Vol. 10, No. 2, pp. 79-92, Winter 2008.
- 55) Mei-Ling Shyu and Shu-Ching Chen, "Guest Editorial: Introduction to the Special Issue on Multimedia Information Processing and Retrieval," *International Journal of Semantic Computing (IJSC)*, Vol. 2, No. 2, pp. 161-163, 2008.
- 56) Hongli Luo, Mei-Ling Shyu, and Shu-Ching Chen, "Video Streaming over the Internet with Optimal Bandwidth Resource Allocation," *Multimedia Tools and Applications*, Volume 40, Number 1, pp. 111-134, October 2008.
- 57) Mei-Ling Shyu, Zongxing Xie, Min Chen, and Shu-Ching Chen, "Video Semantic Event/Concept Detection Using a Subspace-based Multimedia Data Mining Framework," *IEEE Transactions on Multimedia*, Special Issue on Multimedia Data Mining, Volume 10, Number 2, pp. 252-259, February 2008.
- 58) K.K.R.G.K. Hewawasam, K. Premaratne, and Mei-Ling Shyu, "Rule Mining and Classification in a Situation Assessment Application: A Belief-Theoretic Approach for Handling Data Imperfections," *IEEE Transactions on Systems, Man and Cybernetics, Part B*, Vol. 37, No. 6, pp. 1446-1459, December 2007.
- 59) Mei-Ling Shyu, Thiago Quirino, Zongxing Xie, Shu-Ching Chen, and LiWu Chang, "Network Intrusion Detection through Adaptive Sub-Eigenspace Modeling in Multiagent Systems," *ACM Transactions on Autonomous and Adaptive Systems*, Volume 2, Issue 3, Article No. 9, pp. 9:1-9:37, September 2007.
- 60) Shu-Ching Chen, Na Zhao, and Mei-Ling Shyu, "Modeling Semantic Concepts and User Preferences in Content-Based Video Retrieval," *International Journal of Semantic Computing*, Vol. 1, Issue 3, pp. 377-402, September 2007.
- 61) Mei-Ling Shyu, Shu-Ching Chen, Qibin Sun, and Heather Yu, "Overview and Future Trends of Multimedia Research for Content Access and Distribution," *International Journal of Semantic Computing*, Vol. 1, Issue 1, pp. 29-66, March 2007.
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- 63) Choochart Haruechaiyasak, Mei-Ling Shyu, and Shu-Ching Chen, "A Web-Page Recommender System via a Data Mining Framework and the Semantic Web Concept," *International Journal of Computer Applications in Technology*, Special Issue on Data Mining Applications, Vol. 27, No. 4, pp. 298-311, 2006.
- 64) Shu-Ching Chen, Mei-Ling Shyu, Chengcui Zhang, and Min Chen, "A Multimodal Data Mining Framework for Soccer Goal Detection Based on Decision Tree Logic," *International Journal of Computer Applications in Technology*, Special Issue on Data Mining Applications, Vol. 27, No. 4, pp. 312-323, 2006.
- 65) Mei-Ling Shyu, Choochart Haruechaiyasak, and Shu-Ching Chen, "Mining User Access Patterns with Traversal Constraint for Predicting Web Page Requests," *Knowledge and Information Systems (KAIS) Journal*, Volume 10, Number 4, pp. 515-528, November 2006.

- 66) Mei-Ling Shyu and Shu-Ching Chen, "Guest Editorial: Introduction to the Special Issue on Multimedia Databases," *Information Systems*, Volume 31, Issue 7, pp. 636-637, November 2006.
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- 72) Mei-Ling Shyu and Shu-Ching Chen, "Guest Editorial: Introduction to the Special Issue," *Multimedia Tools and Applications*, Volume 26, Number 2, pp. 151-152, June 2005.
- 73) Shu-Ching Chen, Mei-Ling Shyu, Srinivas Peeta, and Chengcui Zhang, "Spatio-Temporal Vehicle Tracking: The Use of Unsupervised Learning-Based Segmentation and Object Tracking," *IEEE Robotics and Automation Magazine*, special issue on Robotic Technologies applied to Intelligent Transportation Systems, Vol. 12, No. 1, pp. 50-58, March 2005, ISSN 1070-9932.
- 74) Shu-Ching Chen, Mei-Ling Shyu, Irina Gray, and Hongli Luo, "An Adaptive Rate-Control Streaming Mechanism with Optimal Buffer Utilization," *Journal of Systems and Software*, Special Issue on Adaptive Multimedia Computing, pp. 271-282, Vol. 75, Issue 3, March 2005.
- 75) Mei-Ling Shyu, Shu-Ching Chen, and Stuart H. Rubin, "Stochastic Clustering for Organizing Distributed Information Source," *IEEE Transactions on Systems, Man and Cybernetics, Part B*, vol. 34, no. 5, pp. 2035-2047, October 2004.
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- 140) Mei-Ling Shyu, Shu-Ching Chen, Choochart Haruechaiyasak, Chi-Min Shu, and Sheng-Tun Li, "Disjoint Web Document Clustering and Management in Electronic Commerce," *the Seventh International Conference on Distributed Multimedia Systems*, pp. 494-497, September 26-28, 2001, Tamkang University, Taipei, Taiwan.
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- 142) Jer-Pei Fang, Chi-Min Shu, Yu-Ching Chen, Shu-Ching Chen, and Mei-Ling Shyu, "Leakage Evaluated and Controlled from Industrial Process Pipeline by Optimum Gasket Assembly Stress," *the 17th Asia Pacific Occupational Safety & Health Organization Conference*, pp. 294-312, September 24-29, 2001, Taipei, Taiwan.
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- 147) Shu-Ching Chen, Mei-Ling Shyu, Chengcui Zhang, and R.L. Kashyap, "Video Scene Change Detection Method Using Unsupervised Segmentation and Object Tracking," *the IEEE International Conference on Multimedia and Expo*, pp. 57-60, August 22-25, 2001, Waseda University, Tokyo, Japan.
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- 149) Sheng-Tun Li, Shu-Ching Chen, and Mei-Ling Shyu, "A Live TV-Quality Distant learning Multimedia Presentation System for Education," *the 34th Hawaii International Conference on System Sciences*, CD-ROM, IEEE Press, 9 pages, January 3-6, 2001, Maui, Hawaii.
- 150) Mei-Ling Shyu, Shu-Ching Chen, and Sheng-Tun Li, "Incorporation of Data Mining and Domain Knowledge for Discovering Quasi-equivalence Database Relationships," *the Workshop on Artificial Intelligence, International Computer Symposium*, pp. 65-71, December 6-8, 2000, Chiayi, Taiwan.
- 151) Shu-Ching Chen, Mei-Ling Shyu, Chengcui Zhang, and R. L. Kashyap, "Object Tracking and Augmented Transition Network for Video Indexing and Modeling," *the 12th IEEE International Conference on Tools with Artificial Intelligence*, pp. 428-435, November 13-15, 2000, Vancouver, British Columbia, Canada.
- 152) Mei-Ling Shyu and Shu-Ching Chen, "Mining Database Semantic Relationships," *the ISCA 2nd International Conference On Information Reuse And Integration*, pp. 62-65, November 1-3, 2000, Honolulu, Hawaii, USA.
- 153) Sheng-Tun Li, Shu-Ching Chen, and Mei-Ling Shyu, "A Presentation Semantic Model for Asynchronous Distance Learning Paradigm," *the ACM Multimedia 2000 Conference*, pp. 404-406, October 30 - November 3, 2000, Los Angeles, California, USA.
- 154) Mei-Ling Shyu, Shu-Ching Chen, and Chi-Min Shu, "Affinity-Based Probabilistic Reasoning and Document Clustering on the WWW," *the 24th IEEE Computer Society International Computer Software and Applications Conference*, pp. 149-154, October 25-27, 2000, Taipei, Taiwan.
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- 156) Mei-Ling Shyu, Shu-Ching Chen, and R. L. Kashyap, "Organizing a Network of Databases Using Probabilistic Reasoning," *the IEEE International Conference on Systems, Man, and Cybernetics*, pp. 1990-1995, October 8-11, 2000, Nashville, Tennessee, USA.

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- 159) Shu-Ching Chen, Mei-Ling Shyu, and Naphtali Rishe, "Modeling Interactive Multimedia Presentation Systems Using Augmented Transition Networks," *the First International Workshop on Intelligent Multimedia Computing and Networking*, pp. 643-646, February 27-March 3, 2000, Atlantic City, NJ, USA.
- 160) Mei-Ling Shyu, Shu-Ching Chen, and Naphtali Rishe, "Markov Model Mediator Mechanism vs Object-Oriented Data Model As a Data Warehouse Schema," *the Fifth International Conference on Computer Science and Informatics*, pp. 496-499, February 27-March 3, 2000, Atlantic City, NJ, USA.
- 161) Shu-Ching Chen, Srinivas Sista, Mei-Ling Shyu, and R. L. Kashyap, "An Indexing and Searching Structure for Multimedia Database Systems," *the IS&T/SPIE conference on Storage and Retrieval for Media Databases 2000*, pp. 262-270, January 23-28, 2000, San Jose, CA, USA.
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- 163) Shu-Ching Chen, Mei-Ling Shyu, and R. L. Kashyap, "Multimedia Presentation Using Augmented Transition Networks and Multimedia Input Strings," *the ISCA 12th International Conference On Computer Applications In Industry And Engineering*, pp. 58-61, November 4-6, 1999, Atlanta, Georgia USA.
- 164) Shu-Ching Chen, Mei-Ling Shyu, and Chi-Min Shu, "Discovering Semantic Relationships Among Object Classes In Database Systems," *the ISCA 1st International Conference On Information Reuse And Integration*, pp. 100-103, November 4-6, 1999, Atlanta, Georgia USA.
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- 166) Shu-Ching Chen, Mei-Ling Shyu, and Chi-Min Shu, "An Object-Oriented Approach For Managing a Network Of Databases," *the 3rd Annual IASTED International Conference on Software Engineering and Applications*, pp. 51-55, October 6-8, 1999, Scottsdale, Arizona, USA.
- 167) Mei-Ling Shyu, Shu-Ching Chen, and R. L. Kashyap, "Information Retrieval Using Markov Model Mediators in Multimedia Database Systems," *the 1998 International Symposium on Multimedia Information Processing*, pp. 237-242, Dec. 14-16, 1998, Chung-Li, Taiwan.
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- 169) Shu-Ching Chen, Mei-Ling Shyu, Srinivas Peeta, and Chengcui Zhang, "Unsupervised Automated Learning-Based Spatio-Temporal Vehicle Tracking and Indexing for Transportation Multimedia Database Systems," *Transportation Research Board (TRB) 2002 Annual Meeting (Referred Presentation)*, January 13-17, 2002, Washington DC, USA.

PROFESSIONAL

6. Funded Research Performed:

- External:
 - 1) Florida Public Hurricane Loss Model. Florida International University/Florida Office of Insurance Regulation, 08/01/2017-06/30/2019, \$90,000, Subcontract.
 - 2) FPHL Model Operation and Maintenance, and Model Upgrades. Florida International University/Florida Office of Insurance Regulation, 12/09/2013-09/30/2017, \$115,000, Subcontract.
 - 3) Florida Public Hurricane Loss Model Project Enhancements to Estimate Losses from Storm Surge and Flooding. Florida International University/Florida Office of Insurance Regulation, 01/01/2014-12/31/2017, \$173,000, Subcontract.
 - 4) Data Mining Assisted Disaster Information Management for Effective Crisis Management and Disaster Recovery Planning and Management. Sayling Wen Cultural & Educational Foundation, Service Science Society of Taiwan, 01/01/2014-12/31/2014, \$3,400 (Total NT\$300,000, about \$10,000), Co-PI (Collaborator: Dr. Chi-Min Shu).
 - 5) System Support for the Development & Simulation of Tropical Cyclone Numerical Models in a Cluster System. NOAA, 08/01/2007-09/30/2015, \$154,535, PI.

- 6) Data Integration and Data Mining Support for Tropical Cyclone Integrated Observing System. NOAA, 08/01/2007-09/30/2015, \$154,535, PI.
 - 7) Public Hurricane Model. Florida International University/Florida Office of Insurance Regulation, 02/01/2010-06/30/2013, \$109,939, Subcontract.
 - 8) TCL Research America, gift funds, \$40,000.
 - 9) Data Analysis and Near-Real-time Quality Control in Support of the International Argo Project. NOAA, 03/01/2008-06/30/2012, \$102,500, PI.
 - 10) Research and Implementation of a Hydrographic Database in Support of the Operational and Research Community. NOAA, 08/15/2008-06/30/2012, \$81,013, PI.
 - 11) Huawei (FutureWei Technologies, Inc.), gift funds, \$15,840, 2008.
 - 12) Design and Development of the Caribbean-wide Reef Fish Visual Census Universal Database. NOAA, 02/04/2003-09/30/2010, \$154,114, PI.
 - 13) Research and Development of Oracle Content Management System and Web Tools for the NOAA Southeast Coral Reef Research Program. NOAA, 01/15/2004-06/30/2009, \$161,947, PI.
 - 14) Hurricane Loss Projection Model. Florida International University/Florida Office of Insurance Regulation, 01/09/2006-09/30/2009, \$154,038, Subcontract.
 - 15) ITR: Collaborative Research: Distributed Information Fusion Networks for Threat Detection and Assessment. NSF ITR (Medium) IIS-0325260, 08/15/2003-07/31/2007, \$399,647, Co-PI (PI: Kamal Premaratne).
 - 16) Research Experiences for Undergraduates. NSF, 05/03/04-07/31/04, \$6,000, Co-PI (PI: Kamal Premaratne).
 - 17) Design and Development of the Florida Keys Coral Reef Ecological Assessment Universal Database. University of North Carolina/NOAA, 06/01/2005-05/31/2006, \$20,000, Subcontract.
 - 18) Implementation of the NOAA Southeast Coral Reef Database System (SeCoRDS). NOAA, 02/10/2003-05/31/2004, \$46,979, PI.
 - 19) Hurricane Risk and Insured Loss Projection Model, Florida International University/Florida Department of Insurance, 08/15/2002-09/01/2005, Amount: \$ 81,531, Subcontract.
 - 20) Fishery Resource Habitat Use Modeling in Florida Bay: Development and Application to Everglades Restoration Implementation (Phase 1). National Park Service, 12/03/2003-06/03/2005, \$21,581, Collaborating Investigator (PI: Jerald Ault), Total amount: \$101,008.
 - 21) Distributed Intrusion Detection Systems Research Support. Florida International University/Naval Research Laboratory (NRL), 04/2004-12/28/2004, \$5,000, Subcontract.
 - 22) Resource Management and Quality of Service in Multimedia Wireless Networks, Telecommunications & Information Technology Institute/ Florida International University, 01/14/2002-12/31/2002, Amount: \$ 58,606, Co-PI (Collaborators: Dr. Shu-Ching Chen and Dr. Raimund Ege).
 - 23) Reduction of OSHA Recordable Injuries in a Large Utility Company. Florida Power and Light, 6/2001-12/2001, Amount: \$38,500, Senior Investigator (PI: Dr. S. Asfour).
 - Internal:
 - 1) Examining the Heterogeneous Clinical Expression of Social Communication Disturbances in ASD, Miami CTSI Pilot Awards FY19, University of Miami, 11/01/2018-10/31/2019, Amount: \$40,000, Co-I (PIs: Daniel Messinger and Lynn Perry).
 - 2) Large Scale Multimedia Semantic Information Retrieval via Multimedia Data Mining and Semantic Association Network, Provost Research Award. University of Miami, 06/01/2012-05/31/2013, Amount: \$16,800, PI.
 - 3) Adaptive Network Transmission Control Mechanism for Optimal Resource Utilization, General Research Support Award, Research Council, University of Miami, 06/01/2002-05/31/2003, Amount: \$ 5,000, PI.
 - 4) Aerodynamic Design Optimization with Artificial Intelligence for Efficient Search of Global Optimum, College of Engineering (CoE) Research Council, University of Miami, 2/1/2002-12/31/2002, Amount: \$ 25,000, Co-PI (Collaborator: Dr. Gecheng Zha).
 - 5) Data Mining for Web Document Management. University of Miami, 05/16/2001-08/15/2001, Amount: \$9,300, PI.
7. Editorial responsibilities:
- Associate Editor and Editor Board:
 - IEEE Transactions on Services Computing (5/2017 - present)
 - IEEE Transactions on Human-Machine Systems (1/2013 – present).
 - IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews (9/2009 – 12/2012).
 - EAI Endorsed Transactions on Collaborative Computing (2/2014 – 5/2015).
 - International Journal of Multimedia Data Engineering and Management, IGI Global (9/2008 – present).

- International Journal of Semantic Computing, World Scientific (1/2014 – present).
 - Journal of Big Data, a SpringerOpen Journal (2/2013 – present).
 - International Journal of Smart Home (4/2007 – present).
 - International Journal of Signal Processing, Image Processing and Pattern (IJSIP), SERSC Press.
 - International Journal of u- and e- Service, Science and Technology (IJUNESST).
 - International Journal on Advances in Telecommunications, IARIA.
 - International Journal of Adaptive Multimedia Systems (IJAMS), Serials Publications (2008-2010).
 - Mobile and Ubiquitous Computing Journal.
 - Advances in Multimedia Journal, Hindawi Publishing Corporation (2009-11/2017).
 - Journal of Advances in Information Technology (JAIT), ACADEMY PUBLISHER.
 - The Journal of Information Processing Systems (JIPS), Korea Information Processing Society (KIPS) (2008-2012).
 - The Open Cybernetics & Systemics Journal (2007–2017).
 - Guest Editor:
 - Special Issue on “IEEE International Symposium on Multimedia (ISM2014),” *IEEE Multimedia Magazine*, 2015.
 - Special Issue on “The Ninth IEEE International Conference on Semantic Computing (ICSC2015),” *International Journal of Semantic Computing* (IJSC, World Scientific Publishing Company), 2015
 - Special Issue on “IEEE International Symposium on Multimedia (ISM2014),” *International Journal of Semantic Computing* (IJSC, World Scientific Publishing Company), 2015.
 - Special Issue on “Advanced Technologies and Services for Multimedia Big Data Processing,” *Multimedia Tools and Applications* (MTAP, Springer), 2015.
 - Special Issue on “The Eighth IEEE International Conference on Semantic Computing (ICSC2014),” *International Journal of Semantic Computing* (IJSC, World Scientific Publishing Company), 2014.
 - Special Issue on “The Seventh IEEE International Conference on Semantic Computing (ICSC2013),” *International Journal of Semantic Computing* (IJSC, World Scientific Publishing Company), 2014.
 - Special Issue on Information Reuse and Integration of the *Journal of Information and Knowledge Management* (World Scientific Publishing Company), 2011 (Selected papers from "The 11th IEEE International Conference on Information Reuse and Integration (IEEE IRI 2010)).
 - Special Issue on “The Fourth IEEE International Conference on Semantic Computing (ICSC2010),” *International Journal of Semantic Computing* (IJSC, World Scientific Publishing Company), 2011.
 - Special Issue on “IEEE International Symposium on Multimedia (ISM2009),” *International Journal of Semantic Computing* (IJSC, World Scientific Publishing Company), 2010.
 - Journal Special Issue on Data Semantics for Multimedia Systems, *Multimedia Tools and Applications* (MTAP, Springer), 2009.
 - Journal Special Issue on Data Semantics and Multimedia Information Management, *Journal of Multimedia* (JMM, Academy Publisher), 2009 (Selected papers from IEEE-MIPR2008 (Multimedia Information Processing and Retrieval) and DSMSA2008 (Data Semantics for Multimedia Systems and Applications) Workshops of International Symposium on Multimedia).
 - Journal Special Issue on "Emerging Techniques for Multimedia Content Sharing, Search and Understanding," *Journal of Visual Communication and Image Representation (JVCI)*, 2008.
 - Journal Special Issue on “Multimedia Information Processing and Retrieval,” *International Journal of Semantic Computing*, 2007.
 - Journal Special Issue on “Multimedia Databases,” *Information Systems* (Elsevier), 2005.
 - Journal Special Issue on “Multimedia Databases,” *Multimedia Tools and Application Journal* (MTAP, Kluwer), 2004.
8. Professional and Honorary Organizations
- Institute of Electrical and Electronics Engineers (IEEE), USA: Fellow (01/2019-present); Senior Member (06/2003-12/2018); Member (1995-05/2003).
 - Association for Computing Machinery (ACM), USA: Distinguished Scientist (12/2012-present); Senior Member (12/2010-11/2012); Member (1995-11/2010).
 - American Association for the Advancement of Science (AAAS), USA: Fellow (11/2017-present); Member (02/2012-10/2017).
 - Chair, Technical Committee on Multimedia Computing (TCMC), IEEE Computer Society, September 1, 2015 - present.

- Vice Chair, Technical Committee on Multimedia Computing (TCMC), IEEE Computer Society, October 1, 2010 - August 31, 2015.
 - Member, IEEE Transactions on Multimedia (T-MM) Steering Committee, Representing Computer Society, January 1, 2014 – December 31, 2016.
 - Member and Chair of the Board of Publications, Technical Committee on Human Centric Communications (HCCTC, IEEE COMSOC), 2008-2012.
 - Member, ICME Steering Committee, Representing Computer Society, January 1, 2011 - December 31, 2012.
 - Member, Technical Committee on Semantic Computing (TCSEM), IEEE Computer Society, since January 1, 2014.
 - Member, Multimedia Communications Technical Committee (IEEE MMTC), IEEE Communication Society, since November 2010.
 - Member, Technical Committee on Knowledge Acquisition in Intelligent Systems, IEEE SMC Society, since 2005.
9. Honors and Awards:
- IEEE Fellow, Institute of Electrical and Electronics Engineers, 2019.
 - AAAS Fellow, American Association for the Advancement of Science, 2017.
 - The Eighth Annual Excellence in Research Journal Award - outstanding Media and Communications article for 2015, IGI Global, August 2016.
 - Best Paper Award, The 17th IEEE International Conference on Information Integration and Reuse, August 2016.
 - Best Paper Award, The 15th IEEE International Conference on Information Integration and Reuse, August 2014.
 - SIRI Outstanding Service Award, for outstanding service to IEEE IRI Conferences, Society for Information Reuse and Integration, August 2014.
 - Outstanding Contribution Award, Program Co-Chair, The IEEE International Conference on Semantic Computing, 2014.
 - Best Paper Award, IEEE International Symposium on Multimedia, December 2013.
 - IEEE Computer Society Technical Achievement Award, 2012 ("For pioneering contributions to multimedia data mining, management and retrieval"). Only up to 5 recipients each year are awarded this award. Watch the Award Ceremony Video at http://www.youtube.com/watch?feature=player_embedded&v=KL-imsZApeU
 - ACM 2012 Distinguished Scientists Award ("For contributions to multimedia data mining and semantic-based multimedia retrieval").
 - 5-Year Service Award, Miami Chinese Language School, 2012.
 - Best Paper Award, The 13th IEEE International Conference on Information Integration and Reuse, August 2012.
 - SIRI Fellow, Society for Information Reuse and Integration, 2010.
 - The Best Published Journal Article in IJMDEM for 2010 Award, IGI Global, April 2011.
 - Best Student Paper Award, The Third IEEE International Conference on Semantic Computing, 2009.
 - Certificate of Appreciation, IEEE Computer Society, 2014, 2010, 2008.
 - Service Award, Program Vice-Chair, The 2008 IEEE International Conference on Information Reuse and Integration (IRI-2008), 2008.
 - The Johnson A. Edosomwan Scholarly Productivity Award, College of Engineering, University of Miami, 2007.
 - Citation: Marquis Who's Who in America, 2007, 2008, 2009, 2010.
 - Citation: Who's Who Among American Teachers & Educators, 2006-2007.
 - Service Award, Program Chair, The 2005 IEEE International Conference on Information Reuse and Integration (IRI-2005), 2005.
 - Research Paper Award Finalist for paper entitled "Learning-Based Spatio-Temporal Vehicle Tracking and Indexing for Transportation Multimedia Database Systems," (appeared in *IEEE Transactions on Intelligent Transportation Systems* in 2003), University of Miami, College of Engineering, 2004.
 - "Excellence in the Research and Application of Advanced Computing and Internet Technologies to Further NOAA's Service to the Nation" Metadata Management Award, NOAA TECH 2004.
 - Citation: International Who's Who of Information Technology, 1999.

10. Advising Activities:
- Current Ph.D. Students:
 - (1) Ahmed Talaat El-Sayed Soliman
 - (2) Muhammad Saad Sadiq
 - (3) Tarek Sayed
 - (4) Yudong Tao
 - (5) Yuexuan Tu

 - Post Ph.D. Students:
 - (1) Yilin Yan (August 2018)
 - (2) Qiusha Zhu (May 2014)
 - (3) Tao Meng (December 2013)
 - (4) Chao Chen (August 2012)
 - (5) Zifang Huang (May 2012)
 - (6) Bassem Abdullah (May 2012)
 - (7) Lin Lin (August 2010)
 - (8) Hongli Luo (June 2006)
 - (9) Choochart Haruechaiyasak (June 2003)

 - Post MS Students (Thesis Option):
 - (1) Michael Jankulak (August 2012)
 - (2) Varsha Sainani (May 2009)
 - (3) Nicholas Carrasco (June 2007)
 - (4) Zongxing Xie (May 2007)
 - (5) Shaminda Subasingha (December 2005)
 - (6) Guy Ravitz (May 2005)
 - (7) Indika Priyantha Kuruppu-Appuhamilage (May 2005)
 - (8) Maththondage Chamara Sisirawansa Ranasingha (December 2004)

 - Post MS Students (Non-Thesis Option):
 - (1) Isaac Thomas Furtney (December 2018)
 - (2) Stephen Moody (May 2015)
 - (3) Ashley E. Huff (December 2007)
 - (4) Ilya Kozavchinsky (December 2007)
 - (5) Miguel Puerto (May 2007)
 - (6) Justin Tyler Archie (May 2006)
 - (7) Thiago Quirino (May 2005)
 - (8) Gbemi Anne Ogunrinde (May 2003)

 - Post BS Students (Senior Projects):
 - (1) Thomas Frazel (May 2016)
 - (2) Ahmed Mohammed Gaziani (May 2016)
 - (3) Nicholas Ryan Mendez (May 2016)
 - (4) Lourdes Montero (May 2016)
 - (5) Andrew Medhat Gabriel (May 2015)
 - (6) Ming Ma (May 2015)
 - (7) Elsa Maria Rodriguez Plaza (May 2015)
 - (8) Menghao Lin (May 2015)
 - (9) Ni Yang (May 2015)
 - (10) Xianming Zhou (May 2015)
 - (11) Yang Liu (May 2014)
 - (12) Alexander Rodriguez (December 2012)
 - (13) Thamer Abdulaziz Almutairi (December 2012)
 - (14) Johnathan Robert Hunter (May 2011)
 - (15) Ryan Amundsen (May 2008)
 - (16) Evelyn Ruth Lawrence (May 2008)

- (17) Robert Justin Ascani (May 2006)
- (18) Aaron Christopher Metz (May 2006)
- (19) Jeremy Gerson (May 2005)
- (20) Patrice Mincey (May 2005)
- (21) Mike Waldron (May 2005)
- (22) Matti Waarna (May 2004)
- (23) Chris Dosen (May 2004)
- (24) Deepak Thani (December 2003)
- (25) Leon B. Xia (May 2003)
- (26) Manuella Okantey (May 2002)

11. Other Professional Activities:

- General Chair:
 - The First IEEE International Conference on Multimedia Information Processing and Retrieval, Miami, Florida, USA, April 10-12, 2018.
 - The IEEE International Symposium on Multimedia, San Jose, California, USA, December 11-13, 2016.
 - The Tenth IEEE International Conference on Semantic Computing, February 3-5, 2016.
 - The Ninth IEEE International Conference on Semantic Computing, February 7-9, 2015.
 - The 4th International Conference on Multimedia and Ubiquitous Engineering, August 11-13, 2010.
- Founder and Program Chair: ACM MMDB (2003-2004), IEEE MDDM (2006), IEEE MIPR (2005-2008, 2010-2016, 2018), MDDE (2012), IEEE DIM (2012-2017), IEEE SMM (2011-2016), IEEE MIPR (2018).
- Program Chair, Vice Chair, Area Chair, International Chair: more than 50 conferences/workshops (mostly IEEE and ACM).
- Other Organizing Committee and Program Committee: more than 200 conferences/workshops/symposiums.