CURRICULUM VITAE
(Chronological)

NAME: Mark L. Gillenson   **DEPARTMENT**: MIS, Fogelman College of Business and Economics   **RANK**: Professor

DEGREES

DEGREE	DISCIPLINE	INSTITUTION	YEAR
B.S.	Mathematics	Rensselaer Polytechnic Institute	1969
M.S.	Computer and Information Science	Ohio State University	1970
Ph.D.	Computer and Information Science	Ohio State University	1974

EXPERIENCE

RANK/POSITION	DEPARTMENT/DIVISION	INSTITUTION/COMPANY/ORG.	PERIOD
Graduate Teaching Associate		Ohio State University	1971
Programmer	Advanced Systems Development	IBM Corp., Mohansic, NY	1974-1975
		International Business Machines Corp	1974 - 1988
Adjunct Professor	MBA and Graduate Programs	Iona College	1976-1978
Systems Analyst and Data Analyst	Information Systems	IBM Corp., Harrison, NY	1976-1978
Senior Faculty Member	IBM Systems Research Institute	IBM Corp., New York, NY	1979-1985
Adjunct Professor	MBA and Graduate Programs	Baruch College of CUNY	1980
Adjunct Professor	MBA and Graduate Programs	Pace University	1984
Adjunct Professor	MBA and Graduate Programs	Florida Atlantic University	1986-87
Senior Systems Analyst Information Systems	Information Systems	IBM Corp., Boca Raton, FL	1986 - 1988
Associate Professor	Department of Computer Information Systems	University of Miami	1988 - 1995
Professor (Dept. Chair 1995-97)	MIS Fogelman College of Business and Economics	University of Memphis	1995 - Present

HONORS/AWARDS

HONOR/AWARD	INSTITUTION/COMPANY/ORGANIZATION	YEAR
Certificate in Data Processing (CDP)	the Institute for Certification of Computer Professionals (ICCP)	1977

TEACHING EXPERIENCE: *(Specific information for past two years summarized in Appendix A. Use Appendix A to elaborate on teaching experience as needed.)*

SUBJECT *(indicate Undergraduate (U), Graduate (G), Other)*	INSTITUTION
CIS 120 Introduction to Computer Information Systems	University of Miami
CIS 523 Data Base Management Systems	University of Miami
CIS 523H Data Base Management Systems (Honors)	University of Miami
CIS 621 Management Information Systems	University of Miami
CIS 631 Computer and Communication Security	University of Miami
CIS 650 Advanced Topics in Database	University of Miami
ISDS 2755 Intro to MIS (U)	The University of Memphis
ISDS 7605 Business Database System (G)	The University of Memphis
ISDS 7665 Advance Business Computing Environments (G)	The University of Memphis
ISDS 2749 Intro to Business Microcomputer Applications	The University of Memphis
ISDS 8720 Research Seminar in Information Systems II	The University of Memphis
ISDS 7665 Advance Business Computing Environments (G)	The University of Memphis
ISDS 3775 Database Management	The University of Memphis

COMP 7100 Introduction to Electronic Commerce (G)	The University of Memphis	
BA/COMP 7970 Electronic Commerce Project	The University of Memphis	
ISDS 2770 Computer Hardware/Software	The University of Memphis	
ISDS7070 Information Systems Principles	The University of Memphis	
MIS 4111 Systems Testing (undergrad)	The University of Memphis	
MIS 7465 Information Systems in Organizations	The University of Memphis	
MIS 7470 Systems Testing (grad)	The University of Memphis	
MIS 7660 Advanced Database and Networking	The University of Memphis	
MIS 7670 Cryptography and Data Security	The University of Memphis	
MIS 7682 Software Testing Tools/Techniques	The University of Memphis	
MIS 8720 Research Seminar in Information Systems II	The University of Memphis	

STUDENT ADVISING/MENTORING: *(Use Appendix B to elaborate on advising/mentoring role as needed)*

Students involved in scholarly (research, creative) activities directly supervised (committees chaired).
Graduates (number): Undergraduate _____, Masters _____, Doctoral _____, Postdoctoral _____

Current	Name	Year of graduation (anticipated)
Undergraduate		
Masters		
Doctoral	Raymond D. Frost, "An Object-Oriented Database Approach to the Storage and Use of Medical Data"	June 1992
	Lei-da Chen, "Consumer Acceptance of Virtual Stores: A Theoretical Model and Critical Success Factors"	May, 2000
	Sutee Sujitparapitaya, "An Empirical Study of the Effects of Organizational Structure on the Implementation of Data Warehouse Topologies"	August, 2000
	En Mao, "Organizational Use and Diffusion of Information Technology in China and an International Comparative Assessment"	July, 2001
	Trent Sanders, "Generalized Human Search Behavior: Implications for E-Commerce Web Page Design"	May, 2003
	Yang Yang, "The Influence of Internal Servicescape on Job Satisfaction – A Study of Employee Self Service Applications in the Human Resources Function"	December, 2007
	Xihui (Paul) Zhang, "Understanding Developer-Tester Dynamics in Software Development: Conflict and Impact"	August, 2009
	Vladimir Ambartsoumian, "A Generalized Methodology For Creating A Taxonomy Of Terminology For Any Business Discipline Using Automated Text Analysis"	May, 2016
	Yao Shi, "Value Estimation of Software Functional Test Cases"	Spring, 2020
	Cody Behles, "The Testing Approaches of Autonomous Cyber-Physical Systems	Spring, 2020
Postdoctoral		

Number of current Committee memberships (other than those chaired): Masters __ _____ , Doctoral __.
Number of students currently advised: Undergraduate _____, Graduate _____

RESEARCH/SCHOLARSHIP/
CREATIVE ACTIVITIES: *(use Appendix C to provide additional information as needed.)*

PUBLICATIONS (authors, title, reference) <u>Include</u> <u>material</u> <u>in</u> <u>press</u> <u>and</u> <u>accepted</u> <u>for</u> <u>publication.</u>
<u>PUBLICATIONS</u>

Books and Monographs Published:

Books:

Gillenson, Mark L. and Goldberg, Robert, *Strategic Planning, Systems Analysis, and Database Design*, John Wiley & Sons, 1984.

Portuguese Translation (Brazil): 1986.

Gillenson, Mark L., *Database: Step-by-Step*, John Wiley & Sons, 1985.

Spanish Translation: 1988.

<u>Second Edition</u>: 1990.

German Translation: 1993.

Gillenson, Mark L. (2005). *Fundamentals of database management systems*. Hoboken, NJ: John Wiley & Sons.

Dutch Translation: 2005.

Portuguese Translation: 2006.

Spanish Translation: 2006.

Second Edition: 2012.

Third Edition 2023

Gillenson, Mark L., Ponniah, Paulraj, Kriegel, Alex, Trukhnov, Boris M., Taylor, Allen G., and Powell, Gavin (2008). *Introduction to database management*. Hoboken, NJ: John Wiley & Sons.

Portuguese Translation: 2009.

Book Chapters:

Gillenson, Mark L., "Database Design and Performance", Chapter in <u>Advances in Computers</u>, Vol. 30, Marshall C. Yovits, editor, Academic Press, 1990.

Gillenson, Mark L., Stafford, Thomas F., Zhang, Xihui, and Shi, Yao (2022). Use of Qualitative Research to Generate a Function for Finding the Unit Cost of Software Testing Cases. In Information Resources Management Association (Ed.), *Research Anthology on Agile Software, Software Development, and Testing* (pp. 836-860). Hershey, PA: IGI Global. ISBN-10: 1668437023, ISBN-13: 978-1668437025, EISBN-13: 978-1668437032.

Juried or Refereed Journal Articles and Exhibitions:

White, Lee J. and Gillenson, Mark L., "An Efficient Algorithm for Minimum k-Covers in Weighted Graphs," <u>Mathematical Programming</u>, Vol. 8, No. 1, February, 1975, pp. 20-42.

Gillenson, Mark L. and Chandrasekaran, B., "A Heuristic Strategy for Developing Human Facial Images on a CRT," <u>Pattern Recognition</u>, Vol. 7, No. 4, December, 1975, pp. 187-196.

Won "Honorable Mention" in the journal's annual best paper competition.

Gillenson, Mark L., Chandrasekaran, B., Csuri, Charles, and Schwartz, Robert, "Computer-Assisted Facial Sketching," Leonardo, Vol. 9, 1976, pp. 126-129.

Gillenson, Mark L., "The State of Practice of Data Administration," Communications of the ACM, Vol. 25, No. 10, October, 1982, pp. 699-706.

Gillenson, Mark L., "Trends in Data Administration," MIS Quarterly, Vol. 9, No. 4, December, 1985, pp. 317-325.

Gillenson, Mark L., "The Duality of Database Structures and Design Techniques," Communications of the ACM, Vol. 30, No. 12, December, 1987, pp. 1056-1065.

Chosen as the cover story of the issue.

Gillenson, Mark L., "Physical Design Equivalencies in Database Conversion," Communications of the ACM, Vol. 33, No. 8, August, 1990, pp. 120-131.

Reprinted: Data Resource Management, Vol. 2, No. 4, Fall, 1991, pp. 48-62.

Gillenson, Mark L., "Database Administration at the Crossroads: The Era of End-User Oriented, Decentralized Data Processing," Journal of Database Administration, Vol. 2, No. 4, Fall, 1991, pp. 1-11.

Gillenson, Mark L. and Stutz, Joel D., "Academic Issues in MIS: Journals and Books," MIS Quarterly, Vol. 15, No. 4, December, 1991, pp. 447-452.

Frost, Raymond D. and Gillenson, Mark L., "Integrated Clinical Decision Support Using an Object-Oriented Database Management System," Methods of Information in Medicine, Vol. 32, No. 2, April, 1993, pp. 154-160.

Gillenson, Mark L. and Frost, Raymond D., "The Evolution of the Meta-Data Concept: Dictionaries, Catalogs, and Repositories," Journal of Database Management, Vol. 4, No. 3, Summer, 1993, pp. 17-26.

Gillenson, Mark L., "An End-User Data Access Control Framework," Journal of Computer Information Systems, Vol. 34, No. 1, Fall, 1993, pp. 63-66.

Frost, Raymond D., Gillenson, Mark L., Hotz, Gillian A., Nedd, Kester J., and Parris, Rachel K., "An Expert Database Technique Applied to an Aphasia Classification System," Aphasiology, Vol. 8, No. 1, January, 1994, pp.55-63.

Frost, Raymond D., Gillenson, Mark L., and Kilpatrick, Michael J., "The Object-Oriented Database as a Self-Contained Expert System," Journal of Object-Oriented Programming, Vol. 5, No. 9, February, 1994, pp.31-36.

Gillenson, Mark L. and Frost, Raymond D., "The Impact of Database Technology on Data Resource Control: A Competing Forces Perspective," Journal of Computer Information Systems, Vol. 34, No. 3, Spring, 1994, pp.2-7.

Gillenson, Mark L., Frost, Raymond D., and Kilpatrick, Michael J., "Database Pointers in Navigational and Object-Oriented Database Management Systems: A Comparison," Journal of Database Management, Vol. 6, No. 4, Fall, 1995, pp. 14-23.

Gillenson, Mark L., Sherrell, Daniel L., and Chen, Lei-da, "Information Technology as the Enabler of One-to-One Marketing," Communications of the AIS, Vol. 2, Article 18, September, 1999.

Gillenson, Mark L., Sherrell, Daniel L., and Chen, Lei-da, "A Taxonomy of Web Site Traversal Patterns and Structures" Communications of the AIS, Vol. 3, Article 17, June, 2000.

Bienstock, Carol C., Gillenson, Mark L., and Sanders, Trent C., "The Complete Taxonomy of Web Business Models," Quarterly Journal of Electronic Commerce, Vol. 3, No. 2, 2002, pp. 173-182.

Chen, Lei-da, Gillenson, Mark L., and Sherrell, Daniel L., "Enticing Online Consumers: A Technology Acceptance Perspective," Information & Management, Vol. 39, 2002, pp. 705-719.

Sujitparapitaya, Sutee, Gillenson, Mark L, and Janz, Brian D., "The Contribution of IT Governance Solutions to the Implementation of Data Warehouse Practice," <u>Journal of Database Management</u>, Vol. 14, No. 2, Apr-June 2003, pp. 52-69.

Prasarnphanich, Pattarawan and Gillenson, Mark L., "The Hybrid 'Clicks and Bricks' Business Model," <u>Communications of the ACM</u>, Vol. 46, No. 12, Dec. 2003, pp. 178-185.

Stafford, Thomas F. and Gillenson, Mark L., "Mobile Commerce: What It Is and What It Could Be," <u>Communications of the ACM</u>, Vol. 46, No. 12, Dec. 2003, pp. 33-34.

Chen, L., Gillenson, M. L., & Sherrell, D. L. (2004). Consumer acceptance of virtual stores: A theoretical model and critical success factors for virtual stores. *DATA BASE*, *35*(2), 8-31.

Martin, C. A., Gillenson, M. L., Bush, R. P., & Sherrell, D. L. (2004). Retail store layout characteristics as a mechanism for enhancing customer relationships in a retail web site environment. *International Journal of Internet Marketing and Advertising*, *1*(4), 413-430.

Gillenson, M. L. & Sanders, T. C. (2005). Employee relationship management: Applying the concept of personalization to U.S. Navy sailors. *Information Systems Management*, *22*(1), 45-50.

Muthitacharoen, A., Gillenson, M. L., & Suwan, N. (2006) Segmenting online customers to manage business resources: A study of the impacts of sales channel strategies on consumer preferences. *Information & Management*, 43(5), 678-695.

Poston, R., Reynolds, R., & Gillenson, M. (2007) Technology solutions for data accuracy and availability problems in healthcare records. *Information Systems Management*, 24, 59-71.

Zhang, Xihui, Dhaliwal, Jasbir, and Gillenson, Mark L. (2010). Organizing Software Testing for Improved Quality and Satisfaction. *Journal of Information Technology Management*, 21(4), 1-12.

Gillenson, M. L., Racer, M. J., Richardson, S. M., & Zhang, X. (2011) Engaging testers early and throughout the software development process: Six models and a simulation study. *Journal of Information Technology Management*, 22(1), 8-27.

Aiken, P., Gillenson, M. L., Zhang, X., & Rafner, D. (2011) Data Management and Data Administration: Assessing 25 years of practice. *Journal of Database Management*, 22(3), 24-45.

Yang, Y., Stafford, T. F., & Gillenson, M. L. (2011) Satisfaction with employee relationship management systems: The impact of usefulness on systems quality perceptions. *European Journal of Information Systems*, 20, 221-236.

Chen, Leida; Meservy, Thomas O.; and Gillenson, Mark (2012) Understanding Information Systems Continuance for Information-Oriented Mobile Applications, *Communications of the Association for Information Systems*: Vol. 30, Article 9. Available at: http://aisel.aisnet.org/cais/vol30/iss1/9.

Muthitacharoen, Achita (Mi), Zhang, Xihui, and Gillenson, Mark L. (2013) What Matters and What Doesn't: Examining the Effectiveness of Surcharge Policies in C2C Online Auctions, *Journal of Information Technology Management*: 24(4), 1-12.

Zhang, Xihui, Dhaliwal, Jasbir S., Gillenson, Mark L., and Stafford, Thomas F. (2013) The Impact of Conflict Judgments between Developers and Testers in Software Development. *Journal of Database Management*, 24(4), 26-50.

Zhang, Xihui, Stafford, Thomas F., Dhaliwal, Jasbir S., Gillenson, Mark L., and Moeller, Gertrude (2014). Sources of Conflict between Developers and Testers in Software Development. *Information & Management*, 51(1), 13-26.

Morgan, Charles P., Gillenson, Mark L., Zhang, Xihui, Bui, Son N., and Lee, Euntae (2016). ATCG: An Automated Test Case Generator. *Journal of Information Technology Management*, XXVII (3), 112-120.

Gillenson, M. L., Racer, M. J., Zhang, X., Booth, R. E., and Dugan, J. P. (2016). A Heuristic Method for Scheduling Requirements Implementation in Agile Software Development Projects. *Journal of Information Technology Management*, XXVII (4), 169-178.

Tang, Zhenya, Chen, Leida, and Gillenson, Mark L. (2018). How to Keep Brand Fan Page Followers? The Lens of Person-Environment Fit Theory. *Information Technology & People*, Vol. 31, Issue 4, pp. 927-947.

Chasidim, Hadas, Almog, Dani, Sohacheski, Dov, Gillenson, Mark L., Poston, Robin, and Mark, Shlomo. (2018). The Unit Test: Facing CICD – Are They Elusive Definitions? *Journal of Information Technology Management*, XXIX (2), 40-54..

Tang, Zhenya., Chen, Leida., & Gillenson, Mark L. (2019). Understanding Brand Fan Page Followers' Discontinuance Motivations: A Mixed-Method Study. *Information & Management, 56(1), 94-108.*

Gillenson, Mark L., Zhang, Xihui, Muthitacharoen, Achita, and Prasarnphanich, Pattarawan. (2019). I've Got You Under My Skin: The Past, Present, and Future Use of RFID Technology in People and Animals. *Journal of Information Technology Management*, XXX (2), 19-29.

Tang, Zhenya (Robin), Leida Chen, Zhongyun (Phil) Zhou, Merrill Warkentin, and Mark L. Gillenson. (2019) "The effects of social media use on control of corruption and moderating role of cultural tightness-looseness," *Government Information Quarterly*, 36, 2019.

Gillenson, M. L., Stafford, T. F., Zhang, X., & Shi, Y. (2020). Use of qualitative research to generate a function for finding the unit cost of software test cases. *Journal of Database Management*, *31*(2), 42-63.

Gillenson, Mark L., Totty, Stephanie, Zhang, Qiunan, Zhang, Xihui, and Shi, Yao. (2021), Global Index for Test and Evaluation Data (GIFTED): An Implementation Approach. *Journal of Information Technology Management*, XXXI (2).

Shi, Yao, Gillenson, Mark. L & Zhang, Xihui., &. (2022). A Quantitative Function for Estimating the Comparative Values of Software Test Cases. *Journal of Database Management*, *33*(1), 1-33.

Shi, Yao, Gebauer, Judith, Kline, Douglas, & Gillenson, Mark, Teaching a Report-Oriented Business Intelligence Course: A Pedagogical Experience. *Journal of Information Systems Education*, (in press).

Other Works and Publications:

Other Publications:

Gillenson, Mark L., "Back to Data Bas(e)ics," COMPUTERWORLD, Vol. 14, No. 50, December 8, 1980, pp. "In Depth" 9-18.

Gillenson, Mark L. and Stutz, Joel D., "The Required MIS Course in the MBA Program," Working Paper, 1990.

Gillenson, Mark L., Object-Oriented Database: How Wide is the Application Range?, (guest editorial), Journal of Database Management, Vol. 6, No. 3, Summer, 1995, pp. 31-32.

Gillenson, Mark L., Information Systems: Which Came First, the Information or the Systems?, (guest editorial), Journal of Database Management, Vol. 8, No. 1, Winter, 1997, pp. 37-38.

Gillenson, Mark L., Database and the Web, (guest editorial), Journal of Database Management, Vol. 9, No. 3, Summer, 1998, pp. 35-36.

PROFESSIONAL

Editorial Responsibilities:

Senior Editor, ACM The DATA BASE of Advances in Information Systems

Associate Editor, Pattern Recognition
    1977-2005

Associate Editor, Journal of Database Management

Associate Editor, Journal of Global Information Technology Management

Editorial Board, Journal of Information Resource Management
    1988-1990

Editorial Board, <u>Journal of Microcomputer Systems Management</u>
    1989-1991

Reviewer:

Journal of Global Information Technology Management
Information Systems Management
Communications of the AIS

Professional and Honorary Organizations:

<u>Member</u>
Association for Computing Machinery
    Special Interest Group on Business Information Technology
    Special Interest Group on Management of Data
    Special Interest Group on Security, Audit, and Control

Data Management Association – International (DAMA-I) – Founder and President of MidSouth Chapter (2004-Present)

Pattern Recognition Society

Association for Information Systems

Information Resources Management Association

Conference Presentations and Other Professional Activities:

Gillenson, Mark L. and Chandrasekaran, B., "The Computerized Police Artist", <u>Proceedings of the 1975 Carnahan Conference on Crime Countermeasures</u>, Lexington, KY, May, 1975, pp. 78-82.

Gillenson, Mark L. and Chandrasekaran, B., "WHATSISFACE: Human Facial Composition by Computer Graphics", <u>Proceedings of the Second Annual Conference on Computer Graphics and Interactive Techniques</u>, Bowling Green, OH, June, 1975, pp. 212-221.

Gillenson, Mark L., "1981 IBM-SRI Data Administration Survey", <u>GUIDE #53 Proceedings,</u> Dallas, TX, November 8-13, 1981, pp. 884-886.

Gillenson, Mark L., "Data Management and End-User Data Access," Presentation to South Florida Data Base Users Group, Ft. Lauderdale, FL, February 21, 1991.

Session Chair, 1993 Information Resources Management Association International Conference, Salt Lake City, Utah, May 23-26, 1993.

Frost, Raymond D. and Gillenson, Mark L., An Active Entity Model for Database Design, Decision Sciences Institute, Northeast Region Conference Proceedings, St. Croix, US Virgin Islands, April, 1996.

Chen, Lei-da and Gillenson, Mark L., A Framework for Data Warehousing Research, Proceedings of the 1999 Americas Conference on Information Systems, Milwaukee, WI, August 13-15, 1999.

Gillenson, Mark L., Sherrell, Daniel L., and Zeltmann, Steven M., The Use of an Expert System to Dynamically Alter Web Pages for One-to-One Marketing, Proceedings of the 1999 Americas Conference on Information Systems, Milwaukee, WI, August 13-15, 1999.

Gillenson, Mark L., Chen, Lei-da, and Sherrell, Daniel L., The Role of Information Technology in One-to-One Marketing, Proceedings of the 1999 Americas Conference on Information Systems, Milwaukee, WI, August 13-15, 1999.

Zhang, Xihui, Hu, Tao, Janz, Brian D., and Gillenson, Mark L., Radio Frequency Identification: The Initiator of a Domino Effect, Proceedings of the 2006 Southern Association for Information Systems Conference, Jacksonville, FL, March 11-12,

2006.

Gillenson, Mark L., Zhang, Xihui, and Richardson, Sandra (2007). Engaging Testers Early and Throughout the SDLC. Proceedings of Workshop on Advances and Innovations in Systems Testing (WAIST 2007), Memphis, TN, USA, May 6-8, 2007.

Stafford, Thomas F., Gillenson, Mark L., and Richardson, Sandra (2007). The Division of Knowledge: Knowledge Transfer Practices in Outsoucing. Proceedings of Workshop on Advances and Innovations in Systems Testing (WAIST 2007), Memphis, TN, USA, May 6-8, 2007.

Zhang, Xihui, Dhaliwal, Jasbir S., and Gillenson, Mark L. (2007). Interpersonal Conflict between Developers and Testers in Software Development. Proceedings of Workshop on Advances and Innovations in Systems Testing (WAIST 2007), Memphis, TN, USA, May 6-8, 2007.

Zhang, Xihui, Stafford, Thomas F., Hennington, Amy H., Gillenson, Mark L., and Hu, Tao (2008). A Dynamic RFID Data-driven Supply Chain Management System. Proceedings of 9th Global Information Technology Management Association World Conference (GITMA 2008), Atlanta, Georgia, June 22-24, 2008.

Gillenson, Mark and Stafford, Tom (2008). Journal Rankings 2008: A Synthesis Of Studies. Proceedings of the Fourteenth Americas Conference on Information Systems, Toronto, ON, Canada, August 14-17, 2008.

Zhang, Xihui, Dhaliwal, Jasbir, Gillenson, Mark, and Moeller, Gertrude (2008). Sources of Conflict Between Developers and Testers in Software Development: A Preliminary Investigation. Proceedings of the Fourteenth Americas Conference on Information Systems, Toronto, ON, Canada, August 14-17, 2008.

Hu, Tao, Zhang, Xihui, Gillenson, Mark L., and Ma, Rong (2008). Understanding Information Technology Configuration in Business Diversification: A Political View. *Proceedings of 39th Decision Science Institute Annual Meeting (DSI 2008),* Baltimore, Maryland, USA, November 22-25, 2008.

Gillenson, Mark, Racer, Michael, Richardson, Sandra, Zhang, Xihui (2008), A Simulation of Six Models of Engaging Testers in the Systems Development Life-Cycle, *Proceedings of the Second International Research Workshop on Advances and Innovations in System Testing*, Memphis, TN, May 4-6, 2008.

Gillenson, Mark L., Racer, Michael, Richardson, Sandra, and Zhang, Xihui (2009). Engaging Testers in the SDLC: A Simulation of Alternative Models. *Proceedings of 3rd International Research Workshop on Advances and Innovations in Systems Testing (IRWAIST 2009),* Memphis, Tennessee, USA, May 4-5, 2009.

Gillenson, Mark L., Fischer, Scott, Dinstuhl, Martin, and Meservy, Thomas (2010). Exploring Strategies for Developing Test Cases with Large Numbers of Input Variables and Values. *Proceedings of 4th International Research Workshop on Advances and Innovations in Systems Testing (IRWAIST 2010),* Memphis, Tennessee, USA, May 3-4, 2010.

Gillenson, Mark L., Dhaliwal, Jasbir, and Bui, Son (2012). Data Design and Management Issues in Software Testing: A Conceptual Framework. *Proceedings of 6th International Research Workshop on Advances and Innovations in Systems Testing (IRWAIST 2012),* Memphis, Tennessee, USA, July 24-25, 2012.

Gillenson, Mark L. and Zhang, Xihui (2013): Determining the Unit Cost of Test Cases Proceedings of 7th International Research Workshop on Advances and Innovations in Systems Testing (IRWAIST 2012), Memphis, Tennessee, USA, October 28-29, 2013.

Racer, Michael and Gillenson, Mark L. (2013): Optimizing Requirements Selection for Agile Iterations Proceedings of 7th International Research Workshop on Advances and Innovations in Systems Testing (IRWAIST 2012), Memphis, Tennessee, USA, October 28-29, 2013.

Racer, Michael, Gillenson, Mark L., and Dugan, John (2014), A Procedure for Ordering Requirements in Agile Development, Proceedings of the 8th International Research Workshop on Advances and Innovations in Software Testing, Memphis, Tennessee, USA, November 3-4, 2014.

Gillenson, Mark L., Stafford, Thomas, Zhang, Xihui, Dhaliwal, Jasbir, and Shi, Yao (2014), Unit Cost of a Functional Test Case, Proceedings of the 8th International Research Workshop on Advances and Innovations in Software Testing, Memphis, Tennessee, USA, November 3-4, 2014.

Morgan, Chuck, Bui, Son, Gillenson, Mark L., and Lee, E. Ted (2014), Automated Test Case Generator, Proceedings of the 8th International Research Workshop on Advances and Innovations in Software Testing, Memphis, Tennessee, USA, November 3-4, 2014.

Gillenson, Mark L., Shi,Yao, Zhang, Xihui "Paul", Stafford, Thomas (2015): Unit Value of a Test Case, Proceedings of the 9th International Research Workshop on Advances and Innovations in Software Testing, Memphis, Tennessee, USA, October 19, 20, 2015.

PRESENTATIONS (authors, title, reference)

INVITED PRESENTATIONS

Conferences

Other (universities/industry)

OTHER PRESENTATIONS (mark refereed presentations with asterisk (*)

CREATIVE ACTIVITIES (productions, recitals, performances, compositions, exhibits, creative work)

ACTIVITY	DATES	LOCATION	SPONSORSHIP (if any)	INVITED (Y/N)

SUPPORT: *(Use Appendix D to provide additional information as needed.)*

EXTERNAL (Funded or Pending. List funded support first)	AGENCY/SOURCE	AMOUNT	PERIOD
The Use of Customer Relationship Management in Sailor Retention	Office of Naval Research (ONR)	$93,834	June 1, 2001-May 31, 2002
Test and Evaluation for Information Technology Acquisitions (Lead Technical Professor)	Department of Homeland Security	$500,441	June 16, 2017 – June 30, 2018
Test and Evaluation for Information Technology Acquisitions (Lead Technical Professor)	Department of Homeland Security	$180,000/yr	June 16, 2017 – June 30, 2020
Testing Software in Autonomous Cyber-Physical Systems (Lead Technical Professor)	Air Force Institute of Technology	$120,000	September 1, 2019 – June 30, 2020

INTERNAL	SOURCE	AMOUNT	PERIOD

OUTREACH: *(Project/s summarized as needed in Appendix E.)*

PROJECT	PARTICIPANTS	PERIOD	SPONSORSHIP (if any)

AWARDS:

US Department of Homeland Security Undersecretary's Award for Science and Engineering	December, 2019	
US Department of Homeland Security Undersecretary's Award for Science and Engineering	December, 2020	

SERVICE:

UNIVERSITY	COMMITTEE/ACTIVITY (if Chair, add [C])	PERIOD
Department		
College/School		
University		
University of Miami	Member of CIS Department Faculty Recruiting Committee	1988-1989
	Chairman of CIS Department Publicity Committee	1988-1989
	Chairman of CIS Department Curriculum Committee	1988-1990
	Member of Application Software Subcommittee of the School of Medicine Campus Computer Advisory Committee	1990-1991
	Department's representative to Master of International Business (MIBS) Program Development Committee	1991-1992
University of Memphis	FedEx Emerging Technology Center Academic Advisory Committee	2001-2002
	FCOBE Tenure and Promotion Committee	2001-2003
	FCOBE Restructuring Committee	2001-2002
	MIS Area Internships Committee	2001-2002
	MIS Area Ph.D. Advisor Subcommittee	2001-2002
	Computer Science Division Tenure and Promotion Committee	2001-2002
	Wang Center Advisory Board	2001-2003
	FCOBE College Ranking Committee	2002-2003
	MIS Department Doctoral Committee	2002-2005
	MIS Department Tenure and Promotion Committee	2003-2005
	MIS Department Intellectual Contributions Committee	2002-2004
	Search Committee for Senior Director of Academic Technologies & Services	2003-2004
	Proposal Review Committee associated with Shared Urban Data System Proj.	2003-2004
	MIS Department Journal Ranking Committee (Chair)	2004-2007
	MIS Department Undergraduate Programs Committee	2004-2006
	FedEx Chair of Excellence Search Committee	2004-2007
	University IT Research Advisory Committee	2004-2006
	University Tenure and Promotion Appeals Board	2004-2007

FCOBE (AACSB) MBA Program Assurance of Learning Committee	2005-2006
University ERP Technical Team	2005-2008
Faculty (Assistant Professor) Search Committee	2005-2006
Faculty Mentor to Assistant Professors	2005-2006
MIS Department Undergraduate Programs Committee (Chair)	2006-2008
University Eminent Faculty Award Committee	2007-2008
Lead development of the BioMedical Concentration in new MBA program	2007-2008
Worked with dean on effort for marketing the college	2007-2009
Chair – Search committee for Assoc VP and Deputy CIO	2007-2008
Chair – University IT Policy and Planning Council (ITPPC)	2007-2009
CDMBA Lunch and Learn Speaker Series	2009-2011
Interim Director of MBA Programs	2010
Director of Customer-Driven MBA Program	2010
Director of Recruiting of CDMBA Program	2011
Chair of the FCBE Palmer Awards Committee	2011
Chair of the MIS Department Tenure and Promotion Committee	2011-2022
FCBE Search Engine Optimization Project	2011
FCBE "Ranking Czar"	2012-2019
Chair of the FCBE Continuous Improvement Committee	2012-2013
MIS Department Marketing	2012-2013
U of M Tenure and Promotion Appeals Committee	2014-2022
Chair of Fogelman College Tenure and Promotion Committee	2018-2022
Co-Chair of U of M Interdisciplinary Graduate Studies Task Force	2014-2015
Co-Chair of U of M Interdisciplinary Graduate Studies Task Force	2014-2015

OTHER Society/Organization/Journal

Founder and President of MidSouth Chapter of DAMA-I	2004-2009
Program Committee of SIMposium 2007	2007-2008

COMMITTEE/EDITORIAL BOARD/OFFICE (if Chair, add [C])

PERIOD

1978 - 2005	Associate Editor of Pattern Recognition
1992 - Present	Associate Editor of The Journal of Database Management
2010 – 2022	Associate Editor of the Journal of Global Information Technology Management
2017 – Present	Senior Editor of ACM's The DATABASE for Advances in Information Systems

APPENDIX A

Teaching Activity

Academic Year (please indicate year)	Course #	Course Name	Credit Hours	Percent Taught	Enroll	Laboratory Supervised (S) Instructed (I)	New Preparation (Y) (N)
Fall 2022	MIS 7605 001	Business Database Systems	3	100	62		N
Fall 2022	MIS 7605 002	Business Database Systems	3	100	60		N
Spring 2022	MIS 7605 001	Business Database Systems	3	100	50		N
Spring 2022	MIS 7660 001	Advanced Data Management	3	100	25		N
Fall 2020	MIS 7605 001	Busines Database Systems	3	100	22		N
Fall 2020	MIS 7605 M50	Busines Database Systems	3	100	86		N
Spring 2020	MIS 7605 001	Busines Database Systems	3	100	54		N
Spring 2020	MIS 7660 001	Advanced Data Management	3	100	27		N
Fall 2019	MIS 7605 M50	Busines Database Systems	3	100	48		N
Fall 2019	MIS 7650 001	Information Systems in the Global Enterprise	3	100	38		N
Spring 2019	MIS 7660 001	Advanced Data Management	3	100	23		N
Spring 2019	MIS 7605 002	Business Database Systems	3	100	42		N

Spring 2018	MIS 7660 001	Advanced Data Management	3	100	31		N
Spring 2018	MIS 7605 001	Business Database Systems	3	100	24		N
Fall 2017	MIS 7605 410	Business Database Systems	3	100	40		N
	MIS 7650 001	Information Systems in the Global Enterprise	3	100	51		N
Spring 2017	MIS 7655 001	Advanced Systems Analysis	3	100	9		Y
	MIS 7660 001	Advanced Data Management	3	100	38		N
Fall 2016	MIS 7605 410	Business Database Systems	3	100	34		N
	MIS 7615 001	Computer Networks and Security	3	100	16		Y
	MIS 8605 001	Business Database Systems	3	100	1		N
Spring 2016	MIS 3775 001	Database Management	3	100	32		N
	MIS 7660 001	Advanced Data Management	3	100	26		Y
Fall 2015	MIS 3775 001	Database Management	3	100	33		N
	MIS 7620 001	Business Intelligence	3	100	47		N
	MIS 8620 001	Business Intelligence	3	100	1		N
Spring 2015	MIS 2749 001	Foundations of Information Systems	3	33.3	43		N

	MIS 2749 002	Foundations of Information Systems	3	33.3	43		N
	MIS 2749 003	Foundations of Information Systems	3	33.3	47		N
	MIS 7650 001	Information Systems in the Global Enterprise	3	100	32		N
	MIS 7910 002	Projects in MIS	3	100	2		N
Fall 2014	MIS 2749 002/C35	Foundations of Information Systems	3	33.3	23/16		Y
	MIS 2749 004	Foundations of Information Systems	3	33.3	43		Y
	MIS 2749 350/C23	Foundations of Information Systems	3	33.3	27/17		Y
	MIS 7620	Business Intelligence	3	100	14		N
Spring 2014	MIS 7605	Business Database Systems	3	100	16		N
	MIS 7650	Information Systems in the Global Enterprise	3	100	32		N
Fall 2013	MIS 2749	Foundations of Information Systems	3	100	47		N
	MIS 7620	Business Intelligence	3	100	15		N
Spring 2013	MIS 7682	Software Testing Tools and Techniques	3	100	13		N
Fall 2012	MIS 7681	Management of Software Testing	3	100	20		N
Spring 2012	MIS 7660	Advanced Data Management (topic Business Intelligence)	3	100	22		Y
Fall 2011	MIS 3775	Database Management	3	100	27		N
Fall 2011	MIS 3820	Intro to Systems Testing	3	100	5		N

Summer 2011	MIS 7650	Information Systems Global Enterprise	3	100	16			N
Spring 2011	MIS 7650	Information Systems Global Enterprise	3	100	22			N
Fall 2010	MIS 3775	Database Management	3	100	41			N
Fall 2010	BA 7716	Special Topics: Strategic Context of Business	3	100	10			Y
Summer 2010	MIS 2749	Foundation/Information Systems	3	100	9			N
Spring 2010	MIS 7682	Software Testing Tools/Techniques	3	100	18			Y
Fall 2009	MIS 3775	Database Management	3	100	45			N
Spring 2009	MIS 7660	Advanced Data Management	3	100	10			N
Fall 2008	MIS 7471	Systems Testing (grad)	3	100	5			N
	MIS 3775	Database Management	3	100	28			N
Summer 2008	MIS 2755	Introduction to MIS	3	100	14			N
Spring 2008	MIS 7660/ 8660	Advanced Database and Networking	3	100	8			N
Fall 2007	MIS 7470	Systems Testing (grad)	3	100	17			Y
	MIS 7670/ 8670	Cryptography and Data Security	3	100	18			N
Spring 2007	MIS 7660/ 8660	Advanced Database and Networking	3	100	29			N (new book)
	MIS 4111	Systems Testing (undergrad)	3	100	10			Y
Fall 2006	MIS 3775	Database Management	3	100	24			N
	MIS 7670/ 8670	Cryptography and Data Security	3	100	25			Y

Summer 2006	MIS 2749	Introduction to Business Microcomputer Applications	3	100	14			N
Spring 2006	MIS 7660/ 8660	Advanced Database and Networking	3	100	18			Y
	MIS 8720	Research Seminar in Information Systems II	3	100	4			N
Spring 2005	MIS 3775	Database Management	3	100	22			N
Fall 2004	MIS 3775	Database Management	3	100	24			N
	MIS 7465	Information Systems in Organizations	3	100	33			Y
	MIS 7605/ 8605	Business Database Systems	3	100	6/4			N
Spring 2004	ISDS 3775	Database Management	3	100	23			N
	ISDS 7070	Information Systems Principles	3	100	26			N
Fall 2003	ISDS 2770	Computer Hardware/Software	3	100	28			Y
	ISDS 2770	Computer Hardware/Software	3	100	28			Y
	ISDS 7070	Information Systems Principles	3	100	28			Y
Summer 2003	ISDS 2749	Introduction to Business Microcomputer Applications	3	100	27			N
Spring 2003	ISDS 2749	Introduction to Business Microcomputer Applications	3	100	23			N
	ISDS 2755	Introduction to MIS	3	100	97			N
	ISDS 2755	Introduction to MIS	3	100	94			N
Fall 2002	ISDS 2755	Introduction to MIS	3	100	99			N
	ISDS 3775	Database Management	3	100	36			Y
Summer 2002	ISDS 7605	Business Database Systems	3	100	15			N

Spring 2002	ISDS 7605	Business Database Systems	3	100	27		N
Fall 2001	COMP 7100	Introduction to Electronic Commerce	3	50	17		N
	BA/ COMP 7970	Electronic Commerce Project	3	50	11		Y
Spring 2001	COMP 7100	Introduction to Electronic Commerce	3	50	12		N
	ISDS 7665	Advanced Business Computing Environments (Survey of Electronic Commerce)	3	100	15		N
Fall 2000	COMP 7100	Introduction to Electronic Commerce	3	50	23		Y
	ISDS 7605	Business Database Systems	3	100	35		N
	ISDS 7665	Advanced Business Computing Environments (Survey of Electronic Commerce)	3	100	28		N
Summer 2000	ISDS 2749	Introduction to Business Microcomputer Applications	3	100	28		N
	ISDS 7605	Business Database Systems	3	100	25		N
Spring 2000	BA7105	Contemporary Electronic Commerce (Survey of Electronic Commerce)	3	100	29		N
	ISDS 8720	Research Seminar in Information Systems II	3	100	8		N
Fall 1999	ISDS 2749	Introduction to Business Microcomputer Applications	3	100	34		Y
	BA7105	Contemporary Electronic Commerce (Survey of Electronic Commerce)	3	100	30		Y (First time teaching it alone)
Summer 1999	ISDS 7605	Business Database Systems	3	100	30		N
Spring 1999	ISDS 7665	Advanced Business Computing Environments (Survey of Electronic Commerce)	3	50	35		N
	ISDS 8720	Research Seminar in Information Systems II	3	100	4		Y

Fall 1998	ISDS 7605	Business Database Systems	3	100	34		N
	ISDS 7665	Advanced Business Computing Environments (Survey of Electronic Commerce)	3	50	30		N

PLEASE ATTACH A SUMMATION OF STUDENT EVALUATIONS FOR EACH COURSE ASSESSED.