

# CURRICULUM VITAE

**Shu-Ching Chen, Ph.D.**

**IEEE Fellow, AAAS Fellow, SIRI Fellow, AAIA Fellow**

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Co-Director, Integrated Computer Augmented Virtual Environment  
Associate Director, Robotic and Digital Manufacturing Laboratory  
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## SUMMARY

Dr. Shu-Ching Chen is a Professor in the Knight Foundation School of Computing and Information Sciences (KFSCIS), College of Engineering and Computing, Florida International University (FIU), Miami. He is the Director of Distributed Multimedia Information Systems Laboratory (DMIS), Co-Director of the Integrated Computer Augmented Virtual Environment (I-CAVE), and Associate Director of the Robotic and Digital Manufacturing Laboratory (RDM). His main research interests include multimedia big data, content-based image/video retrieval, multimedia data mining, multimedia systems, and disaster information management. He developed innovative and fundamentally new methodologies for a wide range of multimedia data management problems for efficient data management/searching/retrieval. He also applies these methods to a number of applications related to disaster information management. Dr. Chen has authored and coauthored more than 370 research papers in journals, refereed conference proceedings, book chapters, and four books. Dr. Chen has been the PI/Co-PI of many research grants from NSF, National Oceanic and Atmospheric Administration (NOAA), Department of Homeland Security (DHS), National Institute of Health (NIH), Department of Energy (DOE), Army Research Office (ARO), Naval Research Laboratory (NRL), Environmental Protection Agency (EPA), Florida Office of Insurance Regulation, Florida Department of Transportation, IBM, and Microsoft.

Dr. Chen's work in disaster information management is widely known and cited. His 3D Hurricane Storm Surge Animation System used by NOAA's Tampa National Weather Service Office, including a press conference and a Hurricane Kickoff Meeting for Critical Employees of Transportation Security Administration, Florida Governor's Hurricane Conference, and a briefing to the City of Tampa's mayor. In addition, his Business Continuity Information Network (BCIN) tool is a first in the world and an initiative that engages university, local, regional, and global community to work together as partners to benefit the society for disaster information management. BCIN has been actively used in

many community activities. It is part of a recognized Public Private Partnership model by FEMA Private Sector Office. His other work on Florida Public Hurricane Loss Model (FPHLM) has major impact to the State of Florida as its predictions directly influence the home insurance rates paid by Floridians every month. Florida ranks number one in total insured property value exposed to hurricane wind. Out of Florida's \$3.6 trillion in insured properties, about \$2 trillion are residential, and all are exposed to hurricane risk. FPHLM is the first public catastrophe model in the world that can assess hurricane risk, and predict annual expected insured residential losses. This model has been officially used by the Florida Office of Insurance Regulation (OIR) more than 2,600 times and over 200 times by firms in the insurance industry.

Dr. Chen was named a 2011 recipient of the ACM Distinguished Scientist Award. He received the best paper awards from 2006 IEEE International Symposium on Multimedia and 2016 IEEE International Conference on Information Reuse and Integration. He received the 2019 Service Award from IEEE Computer Society's Technical Committee on Multimedia Computing. He was awarded the IEEE Systems, Man, and Cybernetics (SMC) Society's Outstanding Contribution Award in 2005 and was the co-recipient of the IEEE Most Active SMC Technical Committee Award in 2006. He was also awarded the Inaugural Excellence in Graduate Mentorship Award from FIU in 2006, the University Outstanding Faculty Research Award from FIU in 2004, the Excellence in Mentorship Award from SCIS in 2010, the Outstanding Faculty Service Award from SCIS in 2004 and 2014, the Outstanding Faculty Research Award from SCIS in 2002 and 2012, and SCIS Director's Special Recognition Award in 2016. He is a fellow of IEEE, AAAS, AIAA, and SIRI.

He has been a General Chair and Program Chair for more than 60 conferences, symposiums, and workshops. He is the Editor-in-Chief of IEEE Multimedia. Under my leadership, IEEE MultiMedia has the highest impact factor **5.633** in the IEEE MultiMedia history and has the highest impact factor among all the 12 IEEE Computer Society magazines two years in a row. I am also the founding Editor-in-Chief of International Journal of Multimedia Data Engineering and Management, and Associate Editor/Editorial Board of IEEE Trans. on Multimedia and IEEE Trans. on Human-Machine Systems. He served as the Chair of IEEE Computer Society Technical Committee on Multimedia Computing. He is Co-Chair of IEEE Systems, Man, and Cybernetics Society's Technical Committee on Knowledge Acquisition in Intelligent Systems. Dr. Chen has also been a guest editor for more than ten journal special issues. He was a member of three steering committees (including IEEE Transactions on Multimedia) and several panels for conferences and NSF. He also serves/served as a member of technical program committee for more than 400 professional meetings. Dr. Chen is also the Co-Founder of Bay Area Multimedia Forum.

## **EDUCATION**

<b><u>Degree</u></b>	<b><u>Institution</u></b>	<b><u>Field</u></b>	<b><u>Dates</u></b>
Ph.D.	Purdue University West Lafayette, IN	School of Electrical & Computer Engineering	December 1998

M.S.	Purdue University West Lafayette, IN	Computer Science	August 1992
MSEE	Purdue University West Lafayette, IN	Electrical Engineering	May 1995
M.S.	Purdue University West Lafayette, IN	Civil Engineering	August 1996
B.M.	Feng Chia University Taiwan, R.O.C.	Traffic & Transportation Engineering and Management	June 1986

## **FULL-TIME ACADEMIC EXPERIENCE**

<b><u>Institution</u></b>	<b><u>Rank</u></b>	<b><u>Field</u></b>	<b><u>Dates</u></b>
FIU	Associate Director	Computing and Information Sciences	08/2018-9/2020
FIU	Professor	Computing and Information Sciences	08/2009-present
FIU	Eminent Scholar Chaired Professor	Computing and Information Sciences	2014-2019
FIU	Associate Professor	Computing and Information Sciences	08/2004-08/2009
FIU	Assistant Professor	Computer Science	08/1999-08/2004
FIU	Graduate Program Director	Computing and Information Sciences	08/2011-08/2014
FIU	Director	Distributed Multimedia Information Systems Laboratory	10/2001-present
FIU	Co-Director	Integrated Computer Augmented Virtual Environment (I-CAVE)	01/2016-present
FIU	Associate Director	Robotic and Digital Manufacturing lab (RDM)	9/2018-present
FIU	Associate Director	The Center for Advanced Distributed System Engineering	2002-2013

## **PART-TIME ACADEMIC EXPERIENCE**

<b><u>Institution</u></b>	<b><u>Rank</u></b>	<b><u>Field</u></b>	<b><u>Dates</u></b>
Purdue University	Research Assistant	Center for Environmental and Regulatory Information Systems	06/1996-10/1998
Purdue University	Teaching Assistant/ Computer Lab Administrator	Civil Engineering	01/1995-05/1996

## NON-ACADEMIC EXPERIENCE

<u>Place of Employment</u>	<u>Title</u>	<u>Dates</u>
Micro Data Base Systems Inc. (IN, USA)	R&D Software Engineer	10/1998-08/1999
United World Chinese Commercial Bank, Taiwan, R.O.C.	System Engineer	11/1988-07/1990

## EMPLOYMENT RECORD AT FIU

<u>Institution</u>	<u>Rank</u>	<u>Field</u>	<u>Dates</u>
FIU	Professor	Computing and Information Sciences	08/2009-present
FIU	Associate Professor	Computing and Information Sciences	08/2004-08/2009
FIU	Assistant Professor	Computer Science	08/1999-08/2004

## PROFESSIONAL HONORS, PRIZES, FELLOWSHIPS

- 1) Outstanding Service Award, The 22nd IEEE International Conference on Information Reuse and Integration for Data Science (IRI 2021).
- 2) First Place, Disaster Scene Description and Indexing (DSDI) track (regardless of training datasets utilized), TRECVID (TREC Video Retrieval Evaluation) 2021. The TREC conference series is sponsored by the National Institute of Standards and Technology (NIST) with additional support from other U.S. government agencies.
- 3) South Florida Hispanic Chamber of Commerce's Good 2 Green Award in recognition of the commitment FIU's CREST Center for Aquatic Chemistry and Environment (2021).
- 4) AAIA Fellow, Asia-Pacific Artificial Intelligence Association (AAIA) (2021).
- 5) First Place, Disaster Scene Description and Indexing (DSDI) track "O" runs, TRECVID (TREC Video Retrieval Evaluation) 2020. The TREC conference series is sponsored by the National Institute of Standards and Technology (NIST) with additional support from other U.S. government agencies.
- 6) The Incubator Award for innovations not yet in production with the greatest potential - The Robotics Academy by Florida International University, American Council for Technology and Industry Advisory Council's (ACT-IAC), 2020.
- 7) IEEE TCMC Service Award (2019), IEEE Technical Committee on Multimedia Computing (TCMC), IEEE Computer Society, "For outstanding service and inspiring leadership to the IEEE Technical Committee on Multimedia Computing and the Multimedia Computing community".
- 8) Excellence in Service Award, School of Computer Science, Florida International University, 2019.
- 9) Best Reviewer Award, IEEE International Conference on Multimedia and Expo (ICME) 2019.

- 10) Excellence in Fundamental Research Award, School of Computing and Information Sciences, Florida International University, 2017.
- 11) Director's Special Recognition Award, School of Computing and Information Sciences, Florida International University, 2016.
- 12) AAAS Fellow (2016).
- 13) Best paper Award, The 17th IEEE International Conference on Information Reuse and Integration (IRI 2016), Pittsburgh, PA, USA, July 28-30, 2016.
- 14) IEEE Fellow (2016) (through IEEE Computer Society, "For contributions to multimedia data and disaster information management")
- 15) Eminent Scholar Chaired Professor in Computer Science, School of Computing and Information Sciences, Florida International University, 2014-2017.
- 16) Excellence in Service Award, School of Computing and Information Sciences, Florida International University, 2014.
- 17) SIRI Outstanding Service Award, Society for Information Reuse and Integration, 2014.
- 18) Excellent in Research Award, School of Computing and Information Sciences, Florida International University, 2012.
- 19) 2012 FIU Top Scholar Award.
- 20) 2011 ACM Distinguished Scientist Award.
- 21) 2011 FIU President's Council World Ahead Faculty Award, Finalist.
- 22) IEEE International Conference on Multimedia and Expo (ICME) 2011 Quality Reviewer.
- 23) 2011 FIU Top Scholar Award.
- 24) 2011 Kauffman Professor Award.
- 25) IBM Scalable Data Analytics Innovation Award, 2010.
- 26) Excellence in Mentorship Award, School of Computing and Information Sciences, Florida International University, 2010.
- 27) Certificate of Appreciation, IEEE Computer Society, 2010.
- 28) Outstanding Leadership Award, The 4th International Conference on Multimedia and Ubiquitous Engineering (MUE 2010), 2010.
- 29) SIRI Fellow, Society for Information Reuse and Integration in 2009.
- 30) ACM Senior Member, 2009.
- 31) Certificate of Appreciation, IEEE Computer Society, 2008.
- 32) Best Paper Award, IEEE International Symposium on Multimedia (ISM2006), December 11-13, 2006, San Diego, CA, USA.
- 33) Most Active SMC Technical Committee Award, IEEE Systems, Man, and Cybernetics Society, October 2006.
- 34) The Inaugural Florida International University Excellence in Graduate Mentorship Award, 2006.
- 35) Excellence in Mentorship Award, School of Computing and Information Sciences, Florida International University, 2006.
- 36) Outstanding Contribution Award, IEEE Systems, Man, and Cybernetics Society, August 2005.
- 37) Florida International University Outstanding Faculty Research Award, 2004.
- 38) Outstanding Faculty Service Award, School of Computer Science, Florida International University, 2004.

- 39) Outstanding Faculty Research Award, Florida International University, School of Computer Science, 2002.
- 40) Service Award, General Chair, IEEE International Conference on Information Reuse and Integration (2005-2016).
- 41) IEEE Senior Member, September 2004.
- 42) Marquis Who's Who in America, 2003-2009.
- 43) International Who's Who of Information Technology, 1999.

## Research Grants

- 1) **PI:** “SCC-IRG JST: Multimodal Data Analytics and Integration for Effective COVID-19, Pandemics and Compound Disaster Response and Management,” NSF CNS-2125165, \$750,000, 10/01/2021-09/30/2024, with Steve Luis (Co-PI). [This project is a joint collaboration between the National Science Foundation and the Japan Science and Technology Agency. Our collaborators from the University of Tokyo have received funding from the Japan Science and Technology Agency in the amount of ¥75,000,000 (approximately \$680k at the current exchange rate) for our collaborative efforts.]
- 2) **PI:** “Island Population Responses to Environmental Stresses,” NSF DEB-2131647, \$35,000, 08/01/2021-07/31/2022, with Tugrul Giray (Co-PI).
- 3) **Co-PI:** “Florida Public Hurricane Loss Model,” Florida Office of Insurance Regulation, \$969,689, 11/15/2020 - 12/31/2021, with Shahid Hamid (PI).
- 4) **Co-PI:** “Real-Time Tracking of Intra-Regional Migration from the Caribbean to Puerto Rico after Extreme Events,” Natural Hazards Center, \$49,040, 10/30/2020-10/30/2021, with Alejandro Arrieta (PI), Juan Pablo Sarmiento (Co-PI), Richard Olson (Co-PI).
- 5) **Co-PI:** “Development and Evaluation of a General Drag Mode for Gas-Solid Flows via Physics Informed Deep Machine Learning,” Department of Energy DE-FE0031904, \$500,000, 8/1/2020-7/31/2023, with Charlie Lin (PI).
- 6) **Co-Investigator:** “Multimodal Machine-Learning and High Performance Computing Strategies for Big MS Proteomics Data,” National Institutes of Health (NIH) R01GM134384, \$965,874, June 2020-June 2023, with Fahad Saeed (PI), Jason Liu (Co-Investigator), Francisco Alberto Fernandez-Lima (Co-Investigator), and Sitharama Iyengar (Senior Personal).
- 7) **Co-PI:** “RAPID: A Platform for Mitigating the Impacts of COVID-19 on the Healthcare System,” NSF OIA-2029557, \$159,300, 6/1/2020-5/31/2022, with Shahin Vassig (PI), Miguel Alonso Jr (Co-PI), Biayna Bogosian (Co-PI).
- 8) **PI:** “Assessing Genomic Changes and Adaptation in the Honey Bee Using AI and Microsoft Azure,” Microsoft AI for Earth - Azure Compute, \$15,000, 4/27/2020-4/30/2021, with Tugrul Giray (Co-PI), Rosanna Giordano (Co-PI), Jose Agosto Rivera (Co-PI), Ravi Kiran Donthu (Co-PI), Jose Marcelino (Co-PI), Remi Megret (Co-PI), Haiping Hao (Co-PI).
- 9) **PI:** “SCC-PG: JST: Multimodal Data Analytics and Integration for Emergency Response and Disaster Management,” NSF CNS-1952089, \$75,000, 7/1/2020-6/30/2022, with Steven Luis (Co-PI), Miguel Alonso Jr (Co-PI).

- 10) **Co-PI:** “Convergence Accelerator Phase I (RAISE): Preparing the Future Workforce of Architecture, Engineering, and Construction for Robotic Automation Processes,” NSF OIA-1937019, \$973,333, 9/1/2010-5/31/2021, with Shahin Vassigh (PI), Rocio Benabentos (Co-PI), Leonardo Bobadilla (Co-PI), Seyed-Masoud Sadjadi (Co-PI).
- 11) **PI:** “Conference: Puerto Rico Honey Bee and Evolution of Invasive Organisms on Islands,” NSF DEB-1940621, 8/1/2019 - 7/31/2020, with Tugrul Giray (Co-PI).
- 12) **PI:** "Data Science for Airlines Informatics (DSAI)," Farelogix, \$125,000, 2018, with Steve Luis. (Gift Fund)
- 13) **Co-PI:** “Florida Public Hurricane Loss Model,” Florida Office of Insurance Regulation, \$2,962,979, 8/1/2017 - 12/31/2020, with Shahid Hamid (PI).
- 14) **Co-PI:** “CREST: Center for Aquatic Chemistry and the Environment,” NSF HRD-1547798, \$5,000,000, 4/15/2016-3/31/2021, with Todd A. Crawl (PI), Rudolf Jaffe (Co-PI), Rene M. Price (Co-PI), Laird H. Kramer (Co-PI).
- 15) **Co-PI:** “Hurricane Catastrophe Fund 2015-2020,” State Board Administration of Florida, \$40,200, 11/01/2015-11/30/2020, with Shahid Hamid (PI).
- 16) **PI:** “BDD: Data-Driven Critical Information Exchange in Disaster Affected Public-Private Networks,” NSF CNS-1461926, \$299,998, 7/1/2015 - 6/30/2019, with Tao Li (PI) Steven Luis (Co-PI). (PI transferred from Dr. Tao Li)
- 17) **Co-PI:** “Florida Public Hurricane Loss Model Project Model Enhancements to Estimate Losses from Storm Surge and Flooding,” Florida Office of Insurance Regulation, \$5,636,600, 8/1/2013 - 12/31/2017, with Shahid Hamid (PI) and Keqi Zhang (Co-PI).
- 18) **Co-PI:** "Public Hurricane Loss Model," Florida Office of Insurance Regulation, \$2,688,259, 8/1/2013 - 9/30/2017, with Shahid Hamid (PI).
- 19) **Co-PI:** "On Track to Carbon Neutral Buildings," Environmental Protection Agency (EPA) SU-83550301, \$15,000, 08/15/2013-08/14/2014, Yimin Zhu (PI), Ismail Guvenc (Co-PI), Nezih Pala (Co-PI), Thomas Spiegelhalter (Co-PI).
- 20) **PI:** "Multimedia Mining Research," TCL Research America, \$86,313. (Gift Fund)
- 21) **Co-PI:** “A Computing Platform for Large-Scale Information Fusion and Data Mining,” Army Research Office, W911NF-12-1-0431, \$138,490, 08/20/2012-08/19/2013, Tao Li (PI), and Steve Luis (Co-PI).
- 22) **Co-PI:** “Public Hurricane Loss Model,” Florida Office of Insurance Regulation, \$588,639, 7/1/2012 - 6/30/2013, with Shahid Hamid (PI).
- 23) **PI:** “Coordinated Damage Assessment Application,” Miami-Dade County DEM/UASI FY08, \$43,670.70, 09/12/2011 - 02/24/2012, with Keqi Zhang (Co-PI), Steve Luis (Co-PI).
- 24) **Co-PI:** “Public Hurricane Loss Model,” Florida Office of Insurance Regulation, \$588,409, 07/01/2011 - 6/30/2012, with Shahid Hamid (PI).
- 25) **Co-PI:** “REU Supplement MRI: Development of an Integrated, Geospatial Analytics Research Instrument,” NSF CNS-1157879, \$16,000, 9/1/2011 - 8/31/2014, Naphtali Rishe (PI), Evangelos Christidis (Co-PI), Ming Zhao (Co-PI), Tao Li (Co-PI).

- 26) **Co-PI:** “MRI: Development of an Integrated, Geospatial Analytics Research Instrument,” NSF CNS-1126619, \$678,693, 9/1/2011 - 8/31/2016, Naphtali Rishe (PI), Evangelos Christidis (Co-PI), Ming Zhao (Co-PI), Tao Li (Co-PI).
- 27) **Co-PI:** “Support for the Educational Activities at ACM Multimedia 2011,” NSF IIS-1138910, \$15,000, 8/1/2011 - 1/31/2013, Ming Li (PI).
- 28) **PI:** “An Open-Source Integrated Computing Infrastructure to Support the Life Cycle Design and Engineering of High Performance Building,” FIU Faculty Research Support Program (FRSP), \$24,935, 8/17/2011 - 8/17/2012, Girma Bitsuamlak (Co-PI), Scott Graham (Co-PI), Steve Luis (Co-PI), Nezhil Pala (Co-PI), Thomas Speigelhalter (Co-PI), Shahin Vassigh (Co-PI), Yimin Zhu (Co-PI).
- 29) **Co-PI:** “All-Hazard Disaster Situation Browser (ADSB) on Mobile Devices,” Eugenio Pino and Family Global Entrepreneurship Center, \$10,798, Tao Li (PI), Steve Luis (Co-PI).
- 30) **PI:** “A Research and Educational Framework to Advance Disaster Information Management in Computer Science PhD Programs,” Department of Homeland Security 2010-ST-062-000039, \$400,000, 2/1/2011 - 1/31/2016, Tao Li (Co-PI), Jinpeng Wei (Co-PI), Zhenyu Yang (Co-PI), and Ming Zhao (Co-PI).
- 31) **Co-PI:** “Florida Cat Fund Hurricane Loss Modeling,” Florida State Board of Administration, \$81,480, 12/01/10 - 12/31/14, Shahid Hamid (PI).
- 32) **Co-PI:** “Knowledge Discovery and Information Delivery for Disaster Management,” IBM Scalable Data Analytics for A Smarter Planet Innovation Award, \$20,000, Tao Li (PI), Steve Luis (Co-PI), Vagelis Christidis (Co-PI).
- 33) **PI:** “A Data Mining Framework for Enhancing Emergency Response Situation Reports with Multi-Agency, Multi-Partner, Multimedia Data,” Purdue VACCINE/DHS 4112-35822, \$305,000, 04/01/2010 - 6/30/2016, Tao Li (Co-PI), Steve Luis (Senior Investigator).
- 34) **Co-PI:** “Public Hurricane Loss Model,” Florida Office of Insurance Regulation, \$588,409, 07/01/2010 - 6/30/2011, with Shahid Hamid (PI).
- 35) **Co-PI:** “Public Hurricane Loss Model,” Florida Office of Insurance Regulation, \$588,639, 10/10/2009 - 6/30/2010, with Shahid Hamid (PI).
- 36) “Center for Hurricane Damage Mitigation--Loss Benefit Model,” IHRC/State of Florida, \$206,780, 2008 - 2011.
- 37) **Co-PI:** “Research Experiences for Undergraduates Supplement for I/UCRC: Center for Advanced Knowledge Enablement,” NSF, \$10,000, 10/29/08 - 6/30/10, Naphtali Rishe (PI), Vagelis Hristidis (Co-PI), Tao Li (Co-PI).
- 38) **Co-PI:** “CREST: Center for Innovative Information Systems Engineering,” NSF-0833093, \$5,000,000, 9/1/08 - 8/31/13, with Naphtali Rishe (PI), Co-PIs Malek Adjouadi (Co-PI), Armando Barreto (Co-PI), Xudong and He (Co-PI).
- 39) **Co-PI:** “Development of Improved Information Management Processes for FDOT Dispute Review Board System,” Florida Department of Transportation, \$96,480, 6/26/2008 - 6/25/2009, with Yimin Zhu (PI) and Mehmet Emre Bayraktar (Co-PI).
- 40) **Co-PI:** “I/UCRC: Center for Advanced Knowledge Enablement,” NSF IIP-0829576, \$249,000, 7/15/2008 - 6/30/2013, with Naphtali Rishe (PI), Evangelos Christidis (Co-PI), Tao Li (Co-PI).



- 41) **PI:** “A Cognitive KASER Decision Support System - Multimedia Works,” SDSU/SPAWAR/Department of Homeland Security Subcontract, \$90,333, 1/15/2008 – 11/28/2008.
- 42) **PI:** “Multimedia Research”, Futurewei Technologies, Inc., \$15,840. (This is a gift fund)
- 43) **PI:** “An Interactive Web-based 2-D Visualization System for Hurricane and Storm Surge Impacts,” National Oceanic and Atmospheric Administration (NOAA), \$104,958, 6/1/2006 - 5/31/2009, with Keqi Zhang (Co-PI).
- 44) **PI:** “3D Visualization and Animation System for Hurricane Impacts with Lighting and Sound,” National Oceanic and Atmospheric Administration (NOAA), \$185,026, 6/1/2005 - 5/31/2009, with Keqi Zhang (Co-PI).
- 45) **Co-PI:** “Public Hurricane Loss Projection Model,” Florida Office of Insurance Regulation, \$2,263,294, 7/2006 - 6/2008, with Shahid Hamid (PI).
- 46) **Co-PI:** “PIRE: A Global Living Laboratory for Cyberinfrastructure Application Enablement,” NSF OISE-0730065, \$2.27 million, 9/15/07 - 8/31/12, with Yi Deng (PI), Pedro Martinez (Co-PI), Seyed-Masoud Sadjadi (Co-PI), Borko Furht (Co-PI).
- 47) **PI:** “An Interactive 3D Visualization and Animation System for Hurricane Impacts,” National Oceanic and Atmospheric Administration (NOAA), \$189,444, 8/1/2004 - 5/31/2009, with Keqi Zhang (Co-PI).
- 48) **Co-PI:** “Hurricane Loss Projection Model,” Florida Office of Insurance Regulation, \$584,000, 12/1/2005 - 06/30/2006, with Shahid Hamid (PI).
- 49) **Co-PI:** “Collaborative Research: Science of Search: Data Search, Analytics, and Architectures Center (DSAAC),” NSF EEC-0630326, \$10,000, 8/15/06 - 7/31/07, with Naphtali Rishe (PI), Vagelis Hristidis (Co-PI), Tao Li (Co-PI).
- 50) **PI:** “Distributed Intrusion Detection Systems Research Support,” Naval Research Laboratory (NRL)/ITT Subcontract: 176815J, \$20,000, March 17, 2004 - January 28, 2005.
- 51) **Co-PI:** “Public Hurricane Risk and Insured Loss Projection Model,” Florida Department of Insurance, \$2.65 million, May 2001 – 09/01/2005, with Shahid Hamid (PI) and Steve Leatherman (Co-PI).
- 52) **Subproject Co-PIs:** “CREST: Center of Emerging Technologies for Advanced Information Processing and High-Confidence Systems,” NSF HRD-0317692, \$4.5 million, August 1, 2003 - July 2008.
- **Subproject:** High Confidence Reactive Software Systems Research
  - **Subproject:** Multidimensional & Multimodal Data Modeling and Query Research
- 53) **Sub-grant PI:** “Windstorm and Simulation Modeling,” IHRC/FEMA, \$322,565, 5/7/01 - 9/30/04 (Sub-grant).
- 54) **Co-PI:** “Infrastructure for Research and Training on High-Performance Heterogeneous Distributed Database Management,” NSF CDA-9711582, August 1997 - July 2002, \$1.25 million (Co-PI started from year 2000).
- 55) **PI:** “A Stochastic Mechanism for Content-Based Image Retrieval,” Office of the Provost/FIU Foundation - 2003 Internal Research Award Competition, \$4,900.32.

- 56) **Co-Investigator:** “Infrastructure for Research and Training in Database Management for Web-based Geospatial Data Visualization with Applications to Aviation,” NSF EIA-0220562, \$1.5 million, September 1, 2002 - June 30, 2007.

## **PATENT DISCLOSURES, APPLICATIONS, AND AWARDS**

- 1) Distributed Biohazard Surveillance System and Apparatus for Adaptive Aerosol Collection and Synchronized Particulate Sampling, Stuart H. Rubin and Shu-Ching Chen, US Patent No. 7,082,369, Issue Date: July 25, 2006.

## **PUBLICATIONS IN DISCIPLINE**

### **Books/Monographs**

- 1) James J. (Jong Hyuk) Park, Shu-Ching Chen, Kim-Kwang Raymond Choo, (Eds.), “Advanced Multimedia and Ubiquitous Engineering,” Lecture Notes in Electrical Engineering, Vol. 448, Springer Singapore, ISBN: 978-981-10-5040-4, 2017, 740 pages.
- 2) James J. (Jong Hyuk) Park, Shu-Ching Chen, Joon-Min Gil, and Neil Y. Yen, (Eds.), “Multimedia and Ubiquitous Engineering,” Lecture Notes in Electrical Engineering, Vol. 308, Springer, ISBN: 978-3-642-54899-4, 2014, 481 pages
- 3) Shu-Ching Chen and Mei-Ling Shyu, “Multimedia Data Engineering Applications and Processing,” IGI Global, DOI: 10.4018/978-1-4666-2940-0, ISBN13: 9781466629400, ISBN10: 1466629401, EISBN13: 9781466629417, February, 2013, 328 pages.
- 4) Shu-Ching Chen and Mei-Ling Shyu, “Methods and Innovations for Multimedia Database Content Management,” IGI Global, DOI: 10.4018/978-1-4666-1791-9, ISBN13: 9781466617919, ISBN10: 1466617918, EISBN13: 9781466617926, June 2012, 363 pages.
- 5) Shu-Ching Chen, R. L. Kashyap, and Arif Ghafoor, “Semantic Models for Multimedia Database Searching and Browsing,” Springer, ISBN 0-7923-7888-1, September 2000.
  - Shu-Ching Chen, R. L. Kashyap, and Arif Ghafoor, “Semantic Models for Multimedia Database Searching and Browsing,” Springer, eBook, ISBN 0-306-47029-2, June 2002.

### **Book Chapters**

- 1) Yilin Yan, Qiusha Zhu, Mei-Ling Shyu, and Shu-Ching Chen, "Classifier Fusion by Judges on Spark Clusters for Multimedia Big Data Classification," Edited by Stuart H. Rubin and Thouraya Bouabana-Tebibel, Advances in Intelligent Systems and Computing, Springer Verlag, vol 561, pp 91-108, Springer Verlag, 2018.
- 2) Fausto C. Fleites, Hsin-Yu Ha, Yimin Yang, Shu-Ching Chen, “Large-Scale Correlation-Based Semantic Classification Using MapReduce,” Edited by Kuan-

- Ching Li, Qing Li and Timothy Shih, *Cloud Computing and Digital Media: Fundamentals, Techniques, and Applications*, pp. 169-190, CRC Press, Taylor & Francis Group, USA, 2014, ISBN 9781466569171.
- 3) Qiusha Zhu, Mei-Ling Shyu, and Shu-Ching Chen, "Discriminative Learning Assisted Video Semantic Concept Classification," *Multimedia Security: Watermarking, Steganography, and Forensics*, Chapter 2, pp. 31-49, CRC Press, 2013, ISBN 978-1-4398-7331-1.
  - 4) Jairo Pava, Fausto Fleites, Shu-Ching Chen and Keqi Zhang, "Integrating Geographic and Meteorological data for Storm Surge Planning ," Edited by Tansel Ozyer, Keivan Kianmehr and Mehmet Tan, *Recent Trends in Information Reuse and Integration*, pp. 273-292, Springer Verlag, 2012, ISBN 978-3-7091-0737-9.
  - 5) Kasturi Chatterjee, S. Masoud Sadjadi, and Shu-Ching Chen, "A Distributed Multimedia Data Management over the Grid," *Multimedia Services in Intelligent Environments - Integrated Systems*, Springer, 2010, ISBN 978-3-642-13395-4.
  - 6) Min Chen, Shu-Ching Chen, and Mei-Ling Shyu, "Content-based Retrieval of Video," Edited by Phillip Sheu, Heather Yu, C.V. Ramamoorthy, Arvind Joshi, and Lotfi A. Zadeh, *Semantic Computing*, IEEE Press/Wiley, May 2010, ISBN: 978-0-470-46495-3.
  - 7) Keqi Zhang, Jianhua Yan, and Shu-Ching Chen, "A Framework for Automated Construction of Building Models from Airborne LIDAR Measurements," Edited by J. Shen and C.K. Toth, *Topographic Laser Ranging and Scanning: Principles and Processing*, CRC Press, pp. 511-534.
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## **Conference/Symposium/Workshop Proceedings**

- 1) Maria Presa-Reyes, Shu-Ching Chen, "Weakly-Supervised Damaged Building Localization and Assessment with Noise Regularization," accepted for publication, *The 4th IEEE International Conference on Multimedia Information Processing and Retrieval (IEEE MIPR 2021)*, Tokyo, Japan, pp. 8-14, September 8-10, 2021.
- 2) Erik Coltey, Yudong Tao, Tianyi Wang, Shahin Vassigh, Shu-Ching Chen, Mei-Ling Shyu, "Generalized Structure for Adaptable Immersive Learning Environments," accepted for publication, *IEEE 22nd International Conference on Information Reuse and Integration for Data Science*, pp. 294-301, August 10-12, 2021.
- 3) Tianyi Wang, Shu-Ching Chen, "Hierarchical Multimodal Fusion Network with Dynamic Multi-task Learning," *IEEE 22nd International Conference on Information Reuse and Integration for Data Science*, pp. 208-214, August 10-12, 2021.
- 4) Anchen Sun, Yudong Tao, Mei-Ling Shyu, Shu-Ching Chen, Angela Blizzard, William Andrew Rothenberg, Dainelys Garcia, Jason F Jent, "Multimodal Data Integration for Interactive and Realistic Avatar Simulation in Augmented Reality," accepted for publication, *IEEE 22nd International Conference on Information Reuse and Integration for Data Science*, pp. 362-369, August 10-12, 2021.
- 5) Erik Coltey, Shahin Vassigh, Shu-Ching Chen, "Community-Connect: COVID-19 Small Business Marketplace with Automated Regulation Matching and Company Lead Retrieval," accepted for publication, *IEEE 22nd International Conference on Information Reuse and Integration for Data Science*, pp. 57-60, August 10-12, 2021. (Demo Paper)
- 6) Shicheng Cui, Qianmu Li, Shu-Ching Chen, Jun Hou, Hanrui Zhang, Shunmei Meng, "Encoding Dual Semantic Knowledge for Text-enhanced Cloud Services," *EAI CloudComp 2020*, Qufu, China, pp. 146-159, 2021.
- 7) Tianyi Wang, Shu-Ching Chen, "Multi-Label Multi-Task Learning with Dynamic Task Weight Balancing," *The 21st IEEE International Conference on Information Reuse and Integration for Data Science (IEEE IRI 2020)*, Tuscany Hotel, Las Vegas, Nevada, USA, pp. 245-252, August 11-13, 2020. (virtual conference)
- 8) Maria Presa-Reyes, Biayna Bogosian, Bradley Schonhoff, Christopher Jerauld, Christian Moreyra, Piero Gardinali, Shu-Ching Chen, "A Water Quality Research Platform for the Near-real-time Buoy Sensor Data," *The 21st IEEE International Conference on Information Reuse and Integration for Data Science (IEEE IRI*

- 2020), Tuscany Hotel, Las Vegas, Nevada, USA, pp. 287-294, August 11-13, 2020. (virtual conference)
- 9) Yudong Tao, Erik Coltey, Tianyi Wang, Miguel Alonso Jr., Mei-Ling Shyu, Shu-Ching Chen, Hadi Alhaffar, Albert Elias, Biayna Bogosian, Shahin Vassigh, “Confidence Estimation Using Machine Learning in Immersive Learning Environments,” *IEEE 3rd International Conference on Multimedia Information Processing and Retrieval*, Shenzhen, Guangdong, China, pp. 247-252, August 6-8, 2020. (virtual conference)
  - 10) Maria Presa-Reyes and Shu-Ching Chen, “Assessing Building Damage by Learning the Deep Feature Correspondence of Before and After Aerial Images,” *IEEE 3rd International Conference on Multimedia Information Processing and Retrieval*, Shenzhen, Guangdong, China, pp. 43-48, August 6-8, 2020. (virtual conference)
  - 11) Haiman Tian, Shu-Ching Chen, Mei-Ling Shyu, “Evolutionary Programming based Deep Feature and Model Selection for Visual Data Classification,” *IEEE 3rd International Conference on Multimedia Information Processing and Retrieval*, Shenzhen, Guangdong, China, pp. 61-66, August 6-8, 2020. (virtual conference)
  - 12) Tianyi Wang, Yudong Tao, Shu-Ching Chen, Mei-Ling Shyu, “Multi-task Multimodal Learning for Disaster Situation Assessment,” *IEEE 3rd International Conference on Multimedia Information Processing and Retrieval*, Shenzhen, Guangdong, China, pp. 209-212, August 6-8, 2020. (virtual conference)
  - 13) Yudong Tao, Rui Ma, Mei-Ling Shyu, and Shu-Ching Chen, “Challenges in Energy-Efficient Deep Neural Network Training with FPGA,” *The 2020 CVPR Workshop of Low-Power Computer Vision Challenge, in conjunction with CVPR 2020*, Seattle, WA, USA, June 15, 2020. (virtual conference)
  - 14) Tianyi Wang, Samira Pouyanfar, Haiman Tian, Yudong Tao, Miguel Alonso Jr., Steve Luis, Shu-Ching Chen, “A Framework for Airfare Price Prediction: A Machine Learning Approach,” *The 20th IEEE International Conference on Information Reuse and Integration for Data Science (IEEE IRI 2019)*, Los Angeles, CA, USA, pp. 200-207, July 30-August 1, 2019.
  - 15) Yuexuan Tu, Saad Sadiq, Yudong Tao, Mei-Ling Shyu, Shu-Ching Chen, “A Power Efficient Neural Network Implementation on Heterogeneous FPGA and GPU Devices,” *The 20th IEEE International Conference on Information Reuse and Integration for Data Science (IEEE IRI 2019)*, Los Angeles, CA, USA, pp. 193-199, July 30-August 1, 2019.
  - 16) Haiman Tian, Shu-Ching Chen, Mei-Ling Shyu, “Genetic Algorithm based Deep Learning Model Selection for Visual Data Classification,” *The 20th IEEE International Conference on Information Reuse and Integration for Data Science (IEEE IRI 2019)*, Los Angeles, CA, USA, pp. 127-134, July 30-August 1, 2019.
  - 17) Haiman Tian, Shu-Ching Chen, Mei-Ling Shyu, Stuart Rubin, “Automated Neural Network Construction with Similarity Sensitive Evolutionary Algorithms,” *The 20th IEEE International Conference on Information Reuse and Integration for Data Science (IEEE IRI 2019)*, Los Angeles, CA, USA, pp. 283-290, July 30-August 1, 2019.

- 18) Samira Pouyanfar, Yudong Tao, Saad Sadiq, Haiman Tian, Yuexuan Tu, Tianyi Wang, Shu-Ching Chen, Mei-Ling Shyu, "Unconstrained Flood Event Detection Using Adversarial Data Augmentation," *IEEE International Conference on Image Processing (ICIP 2019)*, Taipei, Taiwan, pp. 155-159, September 22-25, 2019. **(ICIP 2019 Paper Award Finalist)**
- 19) Samira Pouyanfar, Muneeb Saleem, Nikhil George, Shu-Ching Chen, "ROADS: Randomization for Obstacle Avoidance and Driving in Simulation," *Workshop on Autonomous Driving (WAD)*, in conjunction with CVPR 2019, Long Beach, CA, pp. 78-87, June 16, 2019.
- 20) Samira Pouyanfar, Tianyi Wang, Shu-Ching Chen, "Residual Attention-based Fusion for Video Classification," *Women in Computer Vision Workshop (WiCV)*, in conjunction with CVPR 2019, Long Beach, CA, June 16, 2019.
- 21) Samira Pouyanfar, Tianyi Wang, Shu-Ching Chen, "A Multi-label Multimodal Deep Learning Framework for Imbalanced Data Classification," *IEEE 2nd International Conference on Multimedia Information Processing and Retrieval*, San Jose, CA, USA, pp. 199-204, March 28-30, 2019.
- 22) Samira Pouyanfar, Shu-Ching Chen, Mei-Ling Shyu, "Deep Spatio-Temporal Representation Learning for Multi-Class Imbalanced Data Classification," *The 19th IEEE International Conference on Information Reuse and Integration for Data Science (IEEE IRI 2018)*, Salt Lake City, UT, USA, pp. 386-393, July 7-9, 2018.
- 23) Haiman Tian, Samira Pouyanfar, Jonathan Chen, Shu-Ching Chen, S.S. Iyengar, "Automatic Convolutional Neural Network Selection for Image Classification Using Genetic Algorithms," *The 19th IEEE International Conference on Information Reuse and Integration for Data Science (IEEE IRI 2018)*, Salt Lake City, UT, USA, pp. 444-451, July 7-9, 2018.
- 24) Saad Sadiq, Marina Zmieva, Mei-Ling Shyu, Shu-Ching Chen, "Reduced Residual Nets (Red-Nets): Real-time Low Powered Adversarial Outlier Detectors," *The 19th IEEE International Conference on Information Reuse and Integration for Data Science (IEEE IRI 2018)*, Salt Lake City, UT, USA, pp. 436-443, July 7-9, 2018.
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- 26) Samira Pouyanfar, Yudong Tao, Anup Mohan, Haiman Tian, Ahmed S. Kaseb, Kent Gauen, Ryan Dailey, Sarah Aghajanzadeh, Yung-Hsiang Lu, Shu-Ching Chen, Mei-Ling Shyu, "Dynamic Sampling in Convolutional Neural Networks for Imbalanced Data Classification," *The First IEEE International Conference on Multimedia Information Processing and Retrieval (IEEE MIPR 2018)*, Miami, Florida, USA, pp. 112-117, April 10-12, 2018
- 27) Haiman Tian, Hector Cen Zheng, Shu-Ching Chen, "Sequential Deep Learning for Disaster-Related Video Classification," *The First IEEE International Conference on Multimedia Information Processing and Retrieval (IEEE MIPR 2018)*, Miami, Florida, USA, pp. 106-111, April 10-12, 2018.

- 28) Lili Pan, Samira Pouyanfar, Hao Chen, Jiaohua Qin, and Shu-Ching Chen, "DeepFood: Automatic Multi-Class Classification of Food Materials Using Deep Learning," *The 3rd IEEE International Conference on Collaboration and Internet Computing*, San Jose, California, USA, pp. 181-189, Oct. 15 - 17, 2017.
- 29) Haiman Tian, Shu-Ching Chen, Stuart H. Rubin, and William K. Grefe, "FA-MCADF: Feature Affinity based Multiple Correspondence Analysis and Decision Fusion Framework for Disaster Information Management," *IEEE 18th International Conference on Information Reuse and Integration (IEEE IRI 2017)*, San Diego, CA, USA, pp. 198-206, August 4-6, 2017.
- 30) Stuart H. Rubin, William K. Grefe, Thouraya Bouabana-Tebibel, Shu-Ching Chen, Mei-Ling Shyu, and Kenneth S. Simonsen, "Cyber-Secure UAV Communications using Heuristically Inferred Stochastic Grammars and Hard Real-Time Adaptive Waveform Synthesis and Evolution," *IEEE 18th International Conference on Information Reuse and Integration (IEEE IRI 2017)*, San Diego, CA, USA, pp. 9-15, August 4-6, 2017.
- 31) Saad Sadiq, Yilin Yan, Asia Taylor, Mei-Ling Shyu, Shu-Ching Chen, and Daniel Feaster, "AAFA: Associative Affinity Factor Analysis for Bot Detection and Stance Classification in Twitter," *IEEE 18th International Conference on Information Reuse and Integration (IEEE IRI 2017)*, San Diego, CA, USA, pp. 356-365, August 4-6, 2017.
- 32) Joshua Eisenberg, Deya Banisakher, Maria Presa, Kalli Unthank, Mark Finlayson, Shu-Ching Chen, and Rene Price, "Toward Semantic Search for the Biogeochemical Literature," *IEEE 18th International Conference on Information Reuse and Integration (IEEE IRI 2017)*, San Diego, CA, USA, pp. 517-525, August 4-6, 2017.
- 33) Kent Gauen, Ryan Dailey, John Laiman, Yuxiang Zi, Nirmal Asokan, Yung-Hsiang Lu, George K. Thiruvathukul, Mei-Ling Shyu, and Shu-Ching Chen, "Comparison of Visual Datasets for Machine Learning," *IEEE 18th International Conference on Information Reuse and Integration (IEEE IRI 2017)*, San Diego, CA, USA, pp. 346-355, August 4-6, 2017.
- 34) Samira Pouyanfar, Shu-Ching Chen, and Mei-Ling Shyu, "An Efficient Deep Residual-Inception Network For Multimedia Classification," *2017 IEEE International Conference on Multimedia and Expo (ICME)*, Hong Kong, pp. 373-378, July 10-14, 2017.
- 35) Samira Pouyanfar and Shu-Ching Chen, "T-LRA: Trend-based Learning Rate Annealing for Deep Neural Networks," accepted for publication, *The Third IEEE International Conference on Multimedia Big Data (IEEE BigMM 2017)*, Laguna Hills, California, USA, pp. 50-57, April 19-21, 2017.
- 36) Haiman Tian and Shu-Ching Chen, "MCA-NN: Multiple Correspondence Analysis based Neural Network for Disaster Information Detection," accepted for publication, *The Third IEEE International Conference on Multimedia Big Data (IEEE BigMM 2017)*, Laguna Hills, California, USA, pp. 268-275, April 19-21, 2017.
- 37) Maria E. Presa Reyes and Shu-Ching Chen, "A 3D Virtual Environment for Storm Surge Flooding Animation," *The Third IEEE International Conference on*



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- 38) Haiman Tian and Shu-Ching Chen, "A Video-aided Semantic Analytics System for Disaster Information Integration," accepted for publication, *The Third IEEE International Conference on Multimedia Big Data (IEEE BigMM 2017)*, Laguna Hills, California, USA, pp. 242-243, April 19-21, 2017. (Demo paper)
- 39) Samira Pouyanfar and Shu-Ching Chen, "Semantic Event Detection Using Ensemble Deep Learning," *The IEEE International Symposium on Multimedia (IEEE ISM 2016)*, San Jose, California, USA, pp. 203-208, December 11-13, 2016.
- 40) Tao Li, Wubai Zhou, Chunqiu Zeng, Qing Wang, Qifeng Zhou, Dingding Wang, Jia Xu, Yue Huang, Wentao Wang, Minjing Zhang, Steve Luis, Shu-Ching Chen, Naphtali Rische, "DI-DAP: An Efficient Disaster Information Delivery and Analysis Platform in Disaster Management," *25th ACM Conference on Information and Knowledge Management (CIKM 2016)*, Industrial Track, Indianapolis, USA, pp. 1593-1602, Oct. 24-28 2016.
- 41) Ramesh Baral, Dingding Wang, Tao Li, and Shu-Ching Chen, "GeoTeCS: Exploiting Geographical, Temporal, Categorical and Social aspects for Personalized POI Recommendation," *The 17th IEEE International Conference on Information Reuse and Integration (IRI 2016)*, Pittsburgh, PA, USA, pp. 94-101, July 28-30, 2016.
- 42) Samira Pouyanfar and Shu-Ching Chen, "Semantic Concept Detection Using Weighted Discretization Multiple Correspondence Analysis for Disaster Information Management," *The 17th IEEE International Conference on Information Reuse and Integration (IRI 2016)*, Pittsburgh, PA, USA, pp. 556-564, July 28-30, 2016.
- 43) Yilin Yan, Qiusha Zhu, Mei-Ling Shyu, and Shu-Ching Chen, "A Classifier Ensemble Framework for Multimedia Big Data Classification," *The 17th IEEE International Conference on Information Reuse and Integration (IRI 2016)*, Pittsburgh, PA, USA, pp. 615-622, July 28-30, 2016. **(Won the Best Paper Award)**
- 44) Saad Sadiq, Yilin Yan, Mei-Ling Shyu, Shu-Ching Chen, Hemant Ishwaran, "Enhancing Multimedia Imbalanced Concept Detection Using VIMP in Random Forests," *The 17th IEEE International Conference on Information Reuse and Integration (IRI 2016)*, Pittsburgh, PA, USA, pp. 601-608, July 28-30, 2016.
- 45) Yilin Yan, Samira Pouyanfar, Haiman Tian, Sheng Guan, Hsin-Yu Ha, Shu-Ching Chen, Mei-Ling Shyu, and Shahid Hamid, "Domain Knowledge Assisted Data Processing for Florida Public Hurricane Loss Model," *The 17th IEEE International Conference on Information Reuse and Integration (IRI 2016)*, Pittsburgh, PA, USA, pp. 441-447, July 28-30, 2016.
- 46) Haiman Tian, Hsin-Yu Ha, Samira Pouyanfar, Yilin Yan, Sheng Guan, Shu-Ching Chen, Mei-Ling Shyu, and Shahid Hamid, "A Scalable and Automatic Validation Process for Florida Public Hurricane Loss Model," *The 17th IEEE International Conference on Information Reuse and Integration (IRI 2016)*, accepted for publication, Pittsburgh, PA, USA, pp. 324-331, July 28-30, 2016.

- 47) Yilin Yan, Min Chen, Mei-Ling Shyu, and Shu-Ching Chen, "Deep Learning for Imbalanced Multimedia Data Classification," *IEEE International Conference on Multimedia (ISM 2015)*, Miami, FL, pp. 483-488, December 14-16, 2015.
- 48) Hsin-Yu Ha, Yimin Yang, Samira Pouyanfar, Haiman Tian, and Shu-Ching Chen, "Correlation-based Deep Learning for Multimedia Semantic Concept Detection," *The 16th International Conference on Web Information System Engineering (WISE 2015)*, Miami, FL, pp. 473-487, November 1-3, 2015.
- 49) Guangqiang Zhao, Mingjin Zhang, Tao Li, Shu-Ching Chen, Ouri Wolfson, and Naphtali Rishe, "Moving Video Mapper and City Recorder with Geo-Referenced Videos," *The 16th International Conference on Web Information System Engineering (WISE 2015)*, Miami, FL, pp. 324-331, November 1-3, 2015.
- 50) Sheng Guan, Min Chen, Hsin-Yu Ha, Shu-Ching Chen, Mei-Ling Shyu, and Chengde Zhang, "Deep Learning with MCA-based Instance Selection and Bootstrapping for Imbalanced Data Classification," *1st IEEE International Conference on Collaboration and Internet Computing (IEEE CIC 2015)*, Hangzhou, China, pp. 288-295, October 28-30, 2015.
- 51) Hsin-Yu Ha, Shu-Ching Chen, and Mei-Ling Shyu, "Negative-based Sampling for Multimedia Retrieval," *The 16th IEEE International Conference on Information Reuse and Integration (IRI 2015)*, San Francisco, USA, pp. 64-71, August 13-15, 2015.
- 52) Yimin Yang and Shu-Ching, "Ensemble Learning from Imbalanced Data Set for Video Event Detection," *The 16th IEEE International Conference on Information Reuse and Integration (IRI 2015)*, San Francisco, USA, pp. 82-89, August 13-15, 2015.
- 53) Chao Chen, Mei-Ling Shyu, and Shu-Ching Chen, "Gaussian Mixture Model-based Subspace Modeling for Semantic Concept Retrieval," *The 16th IEEE International Conference on Information Reuse and Integration (IRI 2015)*, San Francisco, USA, pp. 258-265, August 13-15, 2015.
- 54) Guangqiang Zhao, Minjing Zhang, Tao Li, Shu-ching Chen, and Naphtali Rishe, "City Recorder: Virtual City Tour Using Geo-Referenced Videos," *The 16th IEEE International Conference on Information Reuse and Integration (IRI 2015)*, San Francisco, USA, pp. 281-286, August 13-15, 2015.
- 55) Yimin Yang, Shu-Ching Chen, and Mei-Ling Shyu, "Temporal Multiple Correspondence Analysis for Big Data Mining in Soccer Videos," *The First IEEE International Conference on Multimedia Big Data (BigMM)*, Beijing, China, pp. 64-71, April 20-22, 2015.
- 56) Hsin-Yu Ha, Shu-Ching Chen, and Mei-Ling Shyu, "Utilizing Indirect Associations in Multimedia Semantic Retrieval," *The First IEEE International Conference on Multimedia Big Data (BigMM)*, Beijing, China, pp. 72-79, April 20-22, 2015.
- 57) Hsin-Yu Ha, Shu-Ching Chen and Min Chen, "FC-MST: Feature Correlation Maximum Spanning Tree for Multimedia Concept Classification," *Ninth IEEE International Conference on Semantic Computing (IEEE ICSC2015)*, Anaheim, California, USA, pp. 276-283, February 7-9, 2015.
- 58) Yimin Yang, Daniel Lopez, Haiman Tian, Samira Pouyanfar, Fausto Fleites, Shu-Ching Chen and Shahid Hamid, "Integrated Execution Framework for

- Catastrophe Modeling,” *Ninth IEEE International Conference on Semantic Computing (IEEE ICSC2015)*, Anaheim, California, USA, pp. 201-207, February 7-9, 2015.
- 59) Raul Garcia, Diana Machado, Hsin-Yu Ha, Yimin Yang, Shu-Ching Chen, and Shahid Hamid, “A Web-Based Task-Tracking Collaboration System for the Florida Public Hurricane Loss Model,” *10th IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2014)*, Miami, Florida, USA, pp. 304-311, October 22-25, 2014.
  - 60) Wubai Zhou, Chao Shen, Tao Li, Shu-Ching Chen, and Ning Xie, “Generating Textual Storyline to Improve Situation Awareness in Disaster Management,” *The 15th IEEE International Conference on Information Reuse and Integration (IRI 2014)*, San Francisco, USA, pp. 585-592, August 13-15, 2014.
  - 61) Chunqiu Zeng, Hongtai Li, Huibo Huang, Yudong Guang, Chang Liu, Tao Li, Mingjin Zhang, Shu-Ching Chen, and Naphtali Rische, “Optimizing Online Spatial Data Analysis with Sequential Query Patterns,” *The 15th IEEE International Conference on Information Reuse and Integration (IRI 2014)*, San Francisco, USA, pp. 253-260, August 13-15, 2014.
  - 62) Wubai Zhou, Chao Shen, Tao Li, Shu-Ching Chen, Ning Xie, and Jinpeng Wei, “A Bipartite-Graph Based Approach for Disaster Susceptibility Comparisons among Cities,” *The 15th IEEE International Conference on Information Reuse and Integration (IRI 2014)*, San Francisco, USA, pp. 593-599, August 13-15, 2014.
  - 63) Hsin-Yu Ha, Fausto C. Fleites, Shu-Ching Chen, and Min Chen, “Correlation-based Re-ranking for Semantic Concept Detection,” *The 15th IEEE International Conference on Information Reuse and Integration (IRI 2014)*, San Francisco, USA, pp. 765-770, August 13-15, 2014.
  - 64) Peeraya Inyim, HisnYu Ha, Long Phan, Yimin Zhu, and Shu-Ching Chen, “Integration of Video Image Processing and BIM-based Energy Simulation for Analyzing the Impact of Dynamic User Patterns on Building Energy Consumption,” *International Conference on Construction and Real Estate Management*, Kuming, China, pp. 526-534, September 27-28, 2014.
  - 65) Winifred E Newman, Shahin Vassigh, Shu-Ching Chen, Scott Graham, Keqi Zhang, “Immersive Computing Environments in Environment Research,” *Proceedings of 102nd Meeting, Association of Collegiate Schools of Architecture*, Miami, Florida, pp. 103-112, April 2014.
  - 66) Liang Tang, Tao Li, Shu-Ching Chen, Shuzhi Zhu. “Searching Similar Segments over Textual Event Sequences,” in *Proceedings of the 22th ACM Conference on Information and Knowledge Management (CIKM 2013)*, San Francisco, USA, pp. 329-338, Dec. 2013.
  - 67) Zheng Cui, Keqi Zhang, Chengcui Zhang, Jianhua Yan and Shu-Ching Chen, “A GUI Based LIDAR Data Processing System for Modeling and Mapping Generation,” *1st ACM SIGSPATIAL International Workshop on Interacting with Maps (MapInteract) 2013*, in conjunction with ACM SIGSPATIAL 2013, November 5-8, 2013. Orlando, Florida, USA. (Demo Paper)

- 68) Fausto C. Fleites and Shu-Ching Chen, "Efficient Content-based Multimedia Retrieval Using Novel Indexing Structure in PostgreSQL," *IEEE International Symposium*, Anaheim, California, USA, pp. 500-501, December 9-11, 2013. (Demo Paper)
- 69) Yimin Yang, Fausto C. Fleites, Haohong Wang, and Shu-Ching Chen, "An Automatic Object Retrieval Framework for Complex Background," *IEEE International Symposium*, Anaheim, California, USA, pp. 374-377, December 9-11, 2013.
- 70) Zheng Cui, Keqi Zhang, Chengcui Zhang, Shu-Ching Chen, "A Cluster-based Morphological Filter for Geospatial Data Analysis," *2nd ACM SIGSPATIAL International Workshop on Analytics for Big Geospatial Data (BigSpatial-2013)*, in conjunction with ACM SIGSPATIAL 2013, November 5-8, 2013 . Orlando, Florida, USA.
- 71) Zheng Cui, Keqi Zhang, Chengcui Zhang, Jianhua Yan and Shu-Ching Chen, "A GUI Based LIDAR Data Processing System for Model Generation and Mapping," *1st ACM SIGSPATIAL International Workshop on Interacting with Maps (MapInteract) 2013*, in conjunction with ACM SIGSPATIAL 2013, November 5-8, 2013, Orlando, Florida, USA. (Demo Paper)
- 72) Hsin-Yu Ha, Fausto C. Fleites, and Shu-Ching Chen, "Building Multi-model Collaboration in Detecting Multimedia Semantic Concepts," *9th IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing*, October 20-23, 2013, Austin, Texas, USA.
- 73) Fausto Fleites, Steve Cocke, Shu-Ching Chen and Shahid Hamid, "Efficiently Integrating MapReduce-based Computing into a Hurricane Loss Projection Model," *The 14th IEEE International Conference on Information Integration and Reuse (IRI 2013)*, San Francisco, USA, pp. 402-407, August 14-16, 2013.
- 74) Hsin-Yu Ha, Yimin Yang, Fausto Fleites, and Shu-Ching Chen, "Correlation-Based Feature Analysis and Multi-Modality Fusion Framework for Multimedia Semantic Retrieval," *The 2013 IEEE International Conference on Multimedia and Expo (ICME 2013)*, "Multimedia for Humanity" Theme Track, San Jose, California, USA, July 15-19, 2013.
- 75) Yimin Yang and Shu-Ching Chen, "Disaster Image Filtering and Summarization Based on Multi-layered Affinity Propagation," *IEEE Symposium on Multimedia (ISM 2012)*, Irvine, California, USA, pp. 100-103, December 10-12, 2012.
- 76) Yimin Yang, Wenting Lu, Jesse Domack, Tao Li, Shu-Ching Chen, Steven Luis, Jainendra K Navlakha, "MADIS: A Multimedia-Aided Disaster Information Integration System for Emergency Management," *The 8th IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing (IEEE CollaborateCom 2012)*, October 14-17 October, 2012, Pittsburgh, PA, USA.
- 77) Hsin-Yu Ha, Shu-Ching Chen, Yimin Zhu, Steven Luis, Scott Graham and Shahin Vassigh, "Constraint Driven Model Using Correlation and Collaborative Filtering for Sustainable Building," *The 13th IEEE International Conference on Information Integration and Reuse (IRI 2012)*, Las Vegas, pp. 309-315, August 8-10, 2012.

- 78) Li Zheng, Chao Shen, Liang Tang, Chunqiu Zeng, Tao Li, Steve Luis, Shu-Ching Chen and Jainendra K. Navlakha, "Disaster SitRep - A Vertical Search Engine and Information Analysis Tool in Disaster Management Domain," *The 13th IEEE International Conference on Information Integration and Reuse (IRI 2012)*, Las Vegas, pp. 457-465, August 8-10, 2012.
- 79) Fausto Fleites, Kasturi Chatterjee, and Shu-Ching Chen, "AH+-Tree: An Efficient Multimedia Indexing Structure for Similarity Queries," *IEEE International Symposium on Multimedia (ISM2011)*, Dana Point, California USA, pp. 69-76, December 5-7, 2011.
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- 3) "Emerging Multimedia Big Data Research," The Third International Symposium on Computer, Consumer and Control (IS3C2016), Xi'an, China, July 4-6, 2016.
  - 4) "Multimedia Big Data: Challenges, Opportunities, and Applications," The Third International Conference on Image Information Processing (ICIIP 2015), Jaypee University of Information Technology, (JUIT), Himachal Pradesh, India, December 21-23, 2015.
  - 5) "Multimedia Big Data Management, Retrieval, and Applications," The 5th International Conference on Digital Home (ICDH 2014), Ghangzhon, China, November 28-30, 2014.
  - 6) "Knowledge Assisted Multimedia Data Management, Retrieval, and Applications," The 8th International Conference on Signal Image Technology & Internet Based Systems (SITIS'12), Sorrento - Naples, Italy, November 25-29, 2012.
  - 7) "10th-Year Anniversary Keynote Presentation on Information Reuse and Integration," The 2009 IEEE International Conference on Information Reuse and Integration (IEEE IRI-09), Hilton Hotel, Las Vegas, USA, August 10-12, 2009.
- **Distinguished Lecture**
    - 1) "Multimedia Big Data Analytics: Research and Applications," International Conference on Computing, Networking and Communications (ICNC 2017), Silicon Valley, California, USA January 26-29, 2017.
  - **Plenary Talk**
    - 1) "Research and Challenges of Multimedia Data Management and Computing," The 2013 IEEE International Conference on Computing, Networking and Communications, San Diego, USA, January 28-31, 2013.
  - **Topical Challenge Talk**
    - 1) "Multimedia Database Management Systems and Applications to Disaster Information Management," IEEE International Symposium on Multimedia (ISM2011), Dana Point, California USA, pp. 69-76, December 5-7, 2011.
  - **General Chairs**
    - 1) The 4th IEEE International Conference on Multimedia Information Processing and Retrieval (IEEE MIPR 2021), Tokyo, Japan, September 8-10, 2021. (Honorary Co-Chair)
    - 2) IEEE 22nd International Conference on Information Reuse and Integration for Data Science (IEEE IRI 2021), August 10-12, 2021.



- 3) The 21st IEEE International Conference on Information Reuse and Integration for Data Science (IEEE IRI 2020), Taking Place Virtually, August 11-13, 2020.
- 4) The 20th IEEE International Conference on Information Reuse and Integration for Data Science (IEEE IRI 2019), Los Angeles, CA, USA, July 30-August 1, 2019.
- 5) The 19th IEEE International Conference on Information Reuse and Integration for Data Science (IEEE IRI 2018), Salt Lake City, UT, USA, July 7-9, 2018
- 6) The First IEEE International Conference on Multimedia Information Processing and Retrieval (IEEE MIPR 2018), Miami, Florida, USA, April 10-12, 2018. (I co-founded this IEEE Conference)
- 7) IEEE 18th International Conference on Information Reuse and Integration (IEEE IRI 2017), San Diego, USA, August 4-6, 2017.
- 8) The Third IEEE International Conference on Multimedia Big Data (IEEE BigMM 2017), Laguna Hills, California, USA, April 19-21, 2017.
- 9) The 17th IEEE International Conference on Information Reuse and Integration (IRI 2016), Pittsburgh, PA, USA, July 28-30, 2016.
- 10) IEEE International Symposium on Multimedia (ISM 2015), Miami, FL, December 14-16, 2015.
- 11) The 16th IEEE International Conference on Information Reuse and Integration (IRI 2015), San Francisco, USA, August 13-15, 2015.
- 12) The 16th International Conference on Web Information System Engineering (WISE 2015), Miami, FL, October 18-20, 2015.
- 13) The First IEEE International Conference on Multimedia Big Data (BigMM), Beijing, China, April 20-22, 2015.
- 14) The 9th International Conference on Multimedia and Ubiquitous Engineering (MUE-15), Hanoi, Vietnam, May 18-20, 2015.
- 15) 10th IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing (COLLABORATECOM 2014), Miami, Florida, United States, October 20-22, 2014.
- 16) The 15th IEEE International Conference on Information Reuse and Integration (IRI 2014), San Francisco, USA, August 13-15, 2014.
- 17) The 2014 International Workshop on Advanced Multimedia Computing (AMC-14), Incheon, Korea, April 23-25, 2014.
- 18) The 8th FTRA International Conference on Multimedia and Ubiquitous Engineering (MUE-14), Zhangjiajie, China, May 22-24, 2014.
- 19) The 14th IEEE International Conference on Information Integration and Reuse (IRI 2013), San Francisco, USA, August 14-16, 2013.
- 20) The 13rd IEEE International Conference on Information Reuse and Integration (IRI 2012), Tuscany Suites & Casino, Las Vegas, 2012.
- 21) The 12th IEEE International Conference on Information Reuse and Integration (IRI 2011), Tuscany Suites & Casino, Las Vegas, August 3-5, 2011.

- 22) The 11th IEEE International Conference on Information Reuse and Integration (IRI 2010), Tuscany Suites & Casino, Las Vegas, August 4-6, 2010.
- 23) The 4th International Conference on Multimedia and Ubiquitous Engineering, Cebu, Philippines, August 11-13, 2010.
- 24) The 2009 IEEE International Conference on Information Reuse and Integration (IEEE IRI-09), Hilton Hotel, Las Vegas, USA, August 10-12, 2009.
- 25) The 2008 IEEE International Conference on Information Reuse and Integration (IEEE IRI-08), Hilton Hotel, Las Vegas, Nevada, USA, July 13 - 15, 2008.
- 26) The 2008 International Symposium on Ubiquitous Multimedia Computing (UMC-08), Tasmania, Australia, October 14 - 16, 2008.
- 27) The 2007 IEEE International Conference on Information Reuse and Integration (IEEE IRI-07), Hilton Hotel, Las Vegas, USA, August 13 - 15, 2007.
- 28) The Second International Workshop on Parallel and Distributed Multimedia Computing (ParDMCom 2007), Niagara Falls, Ontario, Canada, August 28 - September 1, 2007.
- 29) 2006 IEEE International Conference on Information Reuse and Integration (IEEE IRI-2006), Hilton Waikoloa Village, Waikoloa, Hawaii, USA, September 16-18, 2006.
- 30) The Second IEEE International Workshop on Security and Pervasive Multimedia Environments (MultiSec 2006), San Diego, California, USA, December 11-13, 2006.
- 31) International Workshop on Parallel and Distributed Multimedia Computing (ParDMCom-06), Sorrento, Italy, December 1-4, 2006.
- 32) The First IEEE International Workshop on Security and Pervasive Multimedia Environments (MultiSec 2005), in conjunction with IEEE International Symposium on Multimedia (ISM2005), December 12-14, 2005, Irvine, California, USA.
- 33) 2005 IEEE International Conference on Information Reuse and Integration, August 15-17, 2005, Las Vegas, Nevada, USA.
- 34) 2004 IEEE International Conference on Information Reuse and Integration, November 1-3, 2004, Las Vegas, Nevada, USA.
- 35) 2003 IEEE International Conference Information Reuse and Integration, November 1-3, Las Vegas, Nevada, USA. **(Co-Founder of this IEEE Conference)**

- **Conference Chair**

- 1) The 7th International Conference on Ubi-Media Computing Ulaanbaatar, Mongolia, July 12-14, 2014.
- 2) Fourth IEEE International Conference on Semantic Computing (IEEE ICSC2010), Carnegie Mellon University, Pittsburgh, PA, USA, September 22-24, 2010.

- **Program Chairs**

- 1) The 12th IEEE International Workshop on Multimedia Information Processing and Retrieval (IEEE-MIPR 2016), San Jose, CA, USA, December 11-13, 2016.
- 2) Fourth International Workshop on Semantic Computing for Social Networks: from user information to social knowledge (SCSN 2016), Laguna Hills, California USA, February 03-05, 2016.
- 3) The 11th IEEE International Workshop on Multimedia Information Processing and Retrieval (IEEE MIPR-2015), Miami, FL, USA, December 14-16, 2015.
- 4) Third International Workshop on Semantic Computing for Social Networks: from user information to social knowledge (SCSN 2015), in conjunction with Ninth IEEE International Conference on Semantic Computing, Anaheim, California, USA, February 07-09, 2015.
- 5) The 10th IEEE International Workshop on Multimedia Information Processing and Retrieval (IEEE-MIPR 2014), Taichung, Taiwan, December 10-14, 2014.
- 6) The 9th IEEE International Workshop on Multimedia Information Processing and Retrieval (IEEE-MIPR 2013), Anaheim, California, USA, December 9-11, 2013.
- 7) MDDE 2012: The First International Workshop on Multimedia Databases and Data Engineering, in conjunction with VLDB 2012, Istanbul, Turkey, Aug 27-31 2012.
- 8) The Eighth IEEE International Workshop on Multimedia Information Processing and Retrieval (IEEE-MIPR 2012), Irvine, California, USA, December 10-12, 2012.
- 9) The Seventh IEEE International Workshop on Multimedia Information Processing and Retrieval (IEEE-MIPR 2011), California, USA, December 05-07, 2011.
- 10) The Sixth IEEE International Workshop on Multimedia Information Processing and Retrieval (IEEE-MIPR 2010), in conjunction with IEEE International Symposium on Multimedia (ISM2010), Taichung, Taiwan, December 13-15, 2010.
- 11) The 3rd IEEE International Conference on Ubi-media Computing (U-Media 2010), Zhejiang Normal University, Jinhua, China, July 5-6, 2010.
- 12) The Fifth IEEE International Workshop on Multimedia Information Processing and Retrieval (MIPR 2009), Hyatt Regency Mission Bay Spa and Marina, San Diego, California, USA, December 14-16, 2009.
- 13) Third IEEE International Conference on Semantic Computing (ICSC 2009), Berkeley, CA, USA, September 14-16, 2009.
- 14) IEEE International Symposium on Multimedia (ISM2008), Berkeley, California, USA, December 15-17, 2008
- 15) IEEE International Symposium on Multimedia (ISM2007), Taichung, Taiwan, R.O.C., December 10-12, 2007.

- 16) The Second IEEE International Workshop on Multimedia Databases and Data Management (MDDM'07), in conjunction with IEEE International Conference on Data Engineering (ICDE2007), The Marmara Hotel, Istanbul, Turkey, April 15, 2007.
- 17) The First IEEE International Workshop on Multimedia Databases and Data Management (MDDM'06), in conjunction with International Conference on Data Engineering (ICDE 2006), Atlanta, Georgia, USA, April 8, 2006.
- 18) The Second IEEE International Workshop on Multimedia Information Processing and Retrieval (MIPR 2006), San Diego, California, USA, December 11-13, 2006.
- 19) The IEEE International Workshop on Multimedia Technology and Ubiquitous Computing (MTUC 2006), Taichung, Taiwan, June 5-7, 2006, to be held in conjunction with The IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing (SUTC 2006).
- 20) The First IEEE International Workshop on Multimedia Information Processing and Retrieval (MIPR'05), in conjunction with IEEE International Symposium on Multimedia (ISM2005), December 12-14, 2005, Irvine, CA.
- 21) The Second ACM International Workshop on Multimedia Databases (ACM MMDB'04), November 12, 2004, Hyatt Arlington Hotel, Arlington, VA, USA.
- 22) 6th IEEE International Symposium on Multimedia Software Engineering (MSE2004), December 13-15, 2004, Miami, USA.
- 23) The 10th ACM International Symposium on Advances in Geographic Information Systems, McLean, VA, November 8-9, 2002.
- 24) The First ACM International Workshop on Multimedia Databases (ACM MMDB'03), in conjunction with ACM International Conference on Information and Knowledge Management (CIKM) 2003.
- 25) The 9th International Conference on Distributed Multimedia Systems (DMS'2003), September 24-26, 2003, Florida International University, Miami, FL, USA.
- 26) The International Symposium on Information Systems and Engineering (ISE 2003), July 20-25, Quebec, Canada.
- 27) The International Symposium on Information Systems and Engineering (ISE 2002), July 14-18, San Diego, CA USA, 2002.
- 28) 2nd International Conference on Information Reuse and Integration (IRI-2000), November 1 - 3, 2000, Honolulu, Hawaii, USA.

- **Program Vice Chair**

- 1) The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE 2008), April 24 - 26, 2008, Busan, Korea.

- **Program Area Chair**

- 1) The International MultiMedia Modeling Conference (MMM 2007), January 9-12, 2007, Nanyang Technological University, Singapore.

- **Steering Committee**
  - 1) IEEE Transactions on Multimedia (2011-2013).
  - 2) IEEE International Conference on Multimedia and Expo
  - 3) 2014 International Conference on Platform Technology and Service, Jeju, Korea, Feb. 11-13, 2014.
  - 4) The 2007 International Workshop on Interactive Multimedia & Intelligent Services in Mobile and Ubiquitous Computing 2007 (IMIS-07), April 26-28, 2007, Seoul, Korea.
  
- **Workshop Chair**
  - 1) 7th IEEE International Conference on Semantic Computing, September 16th-18th, 2013, Irvine, CA, USA.
  - 2) The Fifth IEEE International Conference on Semantic Computing (IEEE ICSC 2011), September 18-21, 2011, Stanford University, Palo Alto, CA, USA.
  - 3) IEEE International Symposium on Multimedia (ISM2009), December 14-16, 2009, Hyatt Regency Mission Bay Spa and Marina, San Diego, California, USA.
  - 4) IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing (SUTC2008), June 11-13, 2008, Taichung, Taiwan.
  - 5) First IEEE International Conference on Semantic Computing (IEEE ICSC2007), September 17-19, 2007, Irvine, California, USA.
  - 6) IEEE International Symposium on Multimedia (ISM2006), San Diego, CA, December 11-13, 2006.
  - 7) 2005 IEEE International Symposium on Multimedia (ISM 2005), Irvine, CA, December 12-14, 2005.
  
- **Best paper Award Chair**
  - 1) 10th International Conference on Semantic Computing, Laguna Hills, California, February 3-5, 2016.
  
- **Panel Chair**
  - 1) The IEEE International Symposium on Multimedia (ISM2010), Taichung, Taiwan, December 13-15, 2010.
  - 2) Second IEEE International Conference on Semantic Computing (IEEE ICSC2008), Santa Clara, CA, USA, August 4th-7th, 2008.
  
- **Publication Chair**
  - 1) 36th IEEE International Conference on Data Engineering, Dallas, Texas, April 20-24, 2020.

- **Panelist:**
  - 1) The 11th IEEE International Conference on Information Reuse and Integration (IRI 2010), Tuscany Suites & Casino, Las Vegas, August 4-6, 2010.
  - 2) The 2009 IEEE International Conference on Information Reuse and Integration (IEEE IRI-09), Hilton Hotel, Las Vegas, USA, August 10-12, 2009.
  - 3) The 2008 IEEE International Conference on Information Reuse and Integration (IEEE IRI-08), Hilton Hotel, Las Vegas, USA, July 13 - 15, 2008.
  - 4) NSF 2008.
  - 5) The 2007 IEEE International Conference on Information Reuse and Integration (IEEE IRI-07), Hilton Hotel, Las Vegas, USA, August 13 - 15, 2007.
  - 6) The 2006 IEEE International Conference on Information Reuse and Integration (IEEE IRI-06), Hilton Waikoloa Village, Waikoloa, Hawaii, USA, September 16-18, 2006.
  - 7) The 2005 IEEE International Conference on Information Reuse and Integration, Las Vegas, Nevada, USA, August 15-17, 2005.
  - 8) 3rd International Conference on Information Reuse and Integration (IRI-2001), pp. 92-96, November 27 - 29, 2001, Las Vegas, Nevada, USA.
  - 9) 1st International Conference on Information Reuse and Integration (IRI-99), pp. 100-103, November 4-6, 1999, Atlanta, Georgia, USA.
  
- **Technical Demo Chair**
  - 1) ACM Multimedia Conference (ACM MM'14), Orlando, USA, 2014.
  
- **Tool Demonstration Chair**
  - 1) 26th International Conference on Application and Theory of Petri Nets and Other Models of Concurrency, Miami, Florida, June 20-25, 2005.
  
- **Publicity Chairs**
  - 1) The 2nd international Workshop on Interactive Multimedia & Intelligent Services in Mobile and Ubiquitous Computing (IMIS 2008), Busan, Korea, April 24-26, 2008.
  - 2) International Conference on Web-based Learning (ICWL) 2008, Jinhua, China, August 20-22 2008.
  
- **Finance and Registration Chair**
  - 2) ACM Multimedia 2011 International Conference, Arizona, USA, Nov. 28-Dec. 1, 2011.

- **Tutorials:**

- 1) 3rd International Conference on Information Reuse and Integration (IRI-2001), pp. 92-96, November 27 - 29, 2001, Las Vegas, Nevada, USA, "Multimedia Information Systems: Research and Development Issues."
- 2) The International Symposium on Information Systems and Engineering (ISE 2002), July 14-18, San Diego, USA, 2002, "Data Processing and Retrieval in Multimedia Database Systems."

- **Guest Editor for Journal Special Issues**

- 1) Special issue on "ACM GIS'03 Symposium," *Geoinformatica* (Kluwer).
- 2) Special issue on "Multimedia Databases," *Multimedia Tools and Application Journal* (MTAP, Kluwer).
- 3) Special issue on "Multimedia Networking and Wireless Communications," *The International Journal of Wireless and Mobile Computing* (IJWMC, Inderscience Publishers).
- 4) Special issue on "Distributed Adaptation, Representation and Processing of Multimedia Information," *Multimedia Tools and Application Journal* (MTAP, Kluwer).
- 5) Special Issue on "Data Mining Applications," *International Journal of Computer Applications in Technology* (InderScience Publisher).
- 6) Special Issue on "Multimedia Databases," *Information Systems* (Elsevier).
- 7) Special Issue on "Introduction to the special issue on IEEE Multimedia Software Engineering 2004," *ACM/Springer Verlag Multimedia Systems Journal*.
- 8) Special Issue on "Information Reuse and Integration," *IEEE Transactions on Systems, Man, and Cybernetics (SMC) Part C: Applications & Reviews*.
- 9) Special issue on "Emerging Multimedia Applications," *Multimedia Tools and Application Journal* (Springer).
- 10) Special issue on "Intelligent Pervasive Multimedia Systems," *IEEE Multimedia*.
- 11) Special Issue on "Advances in Ubiquitous Media Technologies and Applications," WWW.
- 12) Special Issue on "Multimedia: The Biggest Big Data", *IEEE Transactions on Multimedia*.

- **Program Committee**

- 1) IEEE International Conference on Multimedia & Expo (ICME 2020), London, United Kingdom, July 6-10, 2020.
- 2) The 29th ACM International Conference on Information and Knowledge Management (CIKM 2020), Beijing, China, October 19-23, 2020.
- 3) 2020 IEEE International Conference on Big Data (IEEE BigData 2020), Atlanta, GA, USA, December 10-13, 2020.

- 4) 2020 IEEE International Conference on Systems, Man, and Cybernetics (SMC2020), Toronto, Canada, October 11-14, 2020.
- 5) IEEE 6th International Conference on Collaboration and Internet Computing, Atlanta, Georgia, USA, October 18-21, 2020.
- 6) The fifth International Symposium on Computer, Consumer and Control (IS3C2020), Taichung Taiwan, November 13-16, 2020.
- 7) 2019 IEEE International Conference on Systems, Man, and Cybernetics (SMC2019), Bari, Italy, October 6-9, 2019.
- 8) The 23rd Pacific-Asia Conference on Knowledge Discovery and Data Mining, Macau, China, April 14-17, 2019.
- 9) IEEE International Conference on Multimedia & Expo (ICME 2019), Shanghai, China, July 8-12, 2019.
- 10) Graph Computing 2019, Laguna Hills, California, September 25-27, 2019.
- 11) The 28th ACM International Conference on Information and Knowledge Management (CIKM 2019), Beijing, China, November 3-7, 2019.
- 12) 2019 IEEE International Conference on Big Data (IEEE BigData 2019), Los Angeles, CA, USA, December 9-12, 2019.
- 13) AAAI-19: The 33rd AAAI Conference on Artificial Intelligence, Honolulu, Hawaii, USA, January 27 - February 1, 2019.
- 14) ACM International Conference on Multimedia 2018, Seoul, Korea, October 22-26, 2018.
- 15) The 2018 IEEE International Conference on Multimedia & Expo (ICME 2018), San Diego, USA, July 23-27, 2018.
- 16) International Conference on Information and Knowledge Management, Turin, Italy, October 22-26, 2018.
- 17) 2018 IEEE International Conference on Big Data (IEEE BigData 2018), Seattle, USA, April 11, 2018.
- 18) The 4th IEEE International Conference on Collaboration and Internet Computing (IEEE CIC 2018), Philadelphia, PA, USA, Oct 18-20, 2018.
- 19) 2018 International Geoscience and Remote Sensing Symposium (IGARSS 2018), Valencia, Spain, July 23-27, 2018.
- 20) The Fourth International Symposium on Computer, Consumer and Control, Taichung, Taiwan, December 6-8, 2018.
- 21) The 22nd Pacific-Asia Conference on Knowledge Discovery and Data Mining, Melbourne, Australia, June 3-6, 2018.
- 22) The 2018 IEEE International Conference on Systems, Man, Cybernetics, Miyazaki, Japan, October 7-10, 2018.
- 23) The 5th CCF Big Data Conference, Shenzhen, China, October 13-15, 2017.
- 24) The 2017 IEEE International Conference on Big Data, Boston, USA, December 11-14, 2017.
- 25) The 23rd ACM SIGKDD Conference on Knowledge and Data Mining, Halifax, Nova Scotia, Canada August 13 - 17, 2017.
- 26) ACM Multimedia 2016, Amsterdam, The Netherlands, October 15-19, 2016.
- 27) The 22nd ACM SIGKDD Conference on Knowledge and Data Mining, San Francisco, USA, August 13-17, 2016.



- 28) The 2016 IEEE International Conference on Big Data, Washington D.C., USA, November 15-18, 2016.
- 29) The 22nd ACM SIGKDD Conference on Knowledge and Data Mining, San Francisco, USA, August 13-17, 2016.
- 30) The 2016 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2016), Budapest, October 9-12.
- 31) 2016 IEEE Symposium on Computational Intelligence and Data Mining (CIDM), Athens, Greece, December 6-9, 2016.
- 32) The 20th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2016), Auckland, New Zealand, April 19-22 2016.
- 33) The 2016 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2016), Beijing, China, July 10-15, 2016.
- 34) The 2016 IEEE International Conference on Multimedia and Expo (ICME 2016), Seattle, USA, July 11 to July 15, 2016.
- 35) The 27th International Conference on Database and Expert Systems Applications (DEXA 2016), Porto, Portugal, September 5-8, 2016.
- 36) The 10th IEEE International Conference on Big Data Science and Engineering (IEEE BigDataSE-16), Tianjin, China, August 23-26, 2016.
- 37) The 14th International Conference on Software Engineering Research, Management and Applications (SERA), Towsan University, USA.
- 38) The 11th International Conference on Collaborative Computing: Networking, Applications and Worksharing (COLLABORATECOM 2015), Wuhan, China, November 10.11, 2015.
- 39) The First IEEE International Conference on Collaboration and Internet Computing (IEEE CIC2015), Hungzhou, China, Oct 27 - 30, 2015.
- 40) The 10th IEEE International Workshop on Trusted Collaboration (TrustCol 2015), Hangzhou, China, October 27, 2015.
- 41) 2015 IEEE International Conference on Systems, Man, Cybernetics (SMC 2015), Hong Kong, October 9-12, 2015.
- 42) The 27th International Conference on Software Engineering and Knowledge Engineering (SEKE'2015), Pittsburgh, USA, July 6-8, 2015.
- 43) The 19th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKEE 2015), Ho Chi Minh City, Viet Nam, 2015.
- 44) The 7th International Conference on Management of computational and collective IntElligence in Digital EcoSystems (MEDES'15), Caraguatatuba/Sao Paulo, Brazil, October 25-29 2015.
- 45) The 18th IEEE International Symposium On Real-Time Computing (ISORC 2015), Auckland, New Zealand, April 13-17, 2015.
- 46) The first International Conference on Intelligent Systems and Computer Vision (ISCV 2015), Fez-Morocco, March 25-26, 2015.
- 47) IEEE International Conference on Multimedia and Expo (ICME 2015), Torino, Italy, June 29-July 3, 2015.
- 48) 2015 IEEE International Conference on Data Mining (ICDM), Atlantic City, NJ, USA, November 14-17, 2015.
- 49) 14th IEEE International Conference on Cognitive Informatics & Cognitive Computing (ICCI\*CC 2015), Beijing, China, July. 6-8, 2015.

- 50) The 21st International Conference on Distributed Multimedia Systems (DMS'2015), Pittsburgh, USA, August 31-September 2, 2015.
- 51) 26th International Conference on Database and Expert Systems Applications (DEXA 2015), Valencia, Spain September 1-4, 2015.
- 52) IEEE International Conference on Big Data Science and Engineering (IEEE BigDataSE-15), Helsinki, Finland, August 20-22, 2015.
- 53) 2015 IEEE International Conference on Big Data, Santa Clara, CA, October 29 - November 1, 2015.
- 54) The 2015 International Conference on Advanced Intelligent Mobile Computing (AIM 2015), Jeju, Korea, February 24-26, 2015.
- 55) The International Conference on Cloud and Autonomic Computing (CAC 2014), Imperial College, London September 8-12, 2014.
- 56) The 2014 IEEE International Conference on Big Data Science and Engineering (BDSE 2014), Beijing, China, September 24-26, 2014.
- 57) IEEE International Conference on Multimedia and Expo (ICME), Chengdu, China, July 14-18, 2014.
- 58) The 18th Pacific-Asia Conference on Knowledge Discovery and Data Mining, Tainan, Taiwan, May 13-16, 2014.
- 59) 25th International Conference on Database and Expert Systems Applications (DEXA 2014), Munich, Germany, September 1-5, 2014.
- 60) The 26th International Conference on Software Engineering and Knowledge Engineering (SEKE'2014), Vancouver, Canada, July 1-3, 2014.
- 61) The Eighth International Conference on Advances in Semantic Processing (SEMAPRO 2014), Rome, Italy, August 24-28, 2014.
- 62) The International Conference on Signal Processing and Multimedia Applications (SIGMAP 2014), Vienna, Austria, August 28-30, 2014.
- 63) Second International Conference on Security in Computer Networks and Distributed Systems (SNDS-2014), Trivandrum, India, March 13-14, 2014.
- 64) 6th International Conference on Soft Computing and pattern recognition (SoCPaR 2014), Tunis, Tunisia, August 11-14, 2014.
- 65) The Second International Symposium on Security in Computing and Communications (SSCC-2014), Delhi, India, September 24-27, 2014.
- 66) The 4th World Congress on Information and Communication Technology (WICT'14), Melaka, Melaka, December 8-11, 2014.
- 67) The 2014 International Conference on Progress in Informatics and Computing (PIC-2014), Shanghai, China, May 16-18, 2014.
- 68) IEEE International Symposium on Object/Component/Service-oriented Real-time Distributed Computing (ISORC 2014), Reno, Nevada, June 8-12, 2014.
- 69) The 2014 International Symposium on Real-time Natural User Interface and Natural User eXperience (RN2 2014), Zhangjiajie, China, May 28-31, 2014.
- 70) The 1st International Conference on Information and Communication Technologies for Disaster Management (ICT-DM'2014), Algiers, Algeria, March 24-25, 2014.
- 71) The Sixth International Conferences on Advances in Multimedia, Nice, France, February 23-27, 2014.

- 72) The 6th International Conference on Nature and Biologically Inspired Computing (NaBIC'14), Porto, Portugal, July 30-August 1, 2014.
- 73) 6th International Conference on Knowledge Discovery and Information Retrieval (KDIR 2014), Rome, Italy, October 21-24, 2014.
- 74) The International ACM Conference on Management of Emergent Digital EcoSystems (MEDES'14), Saudi Arabia, September 15-17, 2014.
- 75) The 20th International Conference on Distributed Multimedia Systems (DMS'2014), Pittsburgh, USA, August 27-29, 2014.
- 76) The Ninth International Multi-Conference on Computing in the Global Information Technology (ICCGI 2014), Seville, Spain, June 22 - 26, 2014.
- 77) The 2nd International Conference on Intelligent Information System and Technology (ICIIST 2014), Tsingdao, China, June 26-28, June 2014.
- 78) The 13th IEEE International Conference on Cognitive Informatics and Cognitive Computing (ICCI\*CC'14), London South Bank University, UK, August 18-20, 2014.
- 79) The Eighth International Conference on Digital Society (ICDS 2014), Barcelona, Spain, March 23 - 27, 2014.
- 80) The 3rd International Conference on Informatics, Electronics & Vision (ICIEV), Dhaka, Bangladesh, May 23-24, 2014.
- 81) 16th International Conference on Enterprise Information Systems, Lisbon, Portugal, April 27-30, 2014.
- 82) The Sixth International Conference on Information, Process, and Knowledge Management, Barcelona, Spain, March 23 - 27, 2014.
- 83) 5th international conference on Computer and Communications Technology (ICCCT-2014), India.
- 84) The 9th FTRA International Conference on Future Information Technology (FutureTech 2014), Zhangjiajie, China, May 29-31, 2014.
- 85) 2014 IEEE International Conference on Big Data, Washington, D.C., October 27-30, 2014.
- 86) 3rd International Congress on Big Data, Anchorage, Alaska, USA, June 27 - July 2, 2014.
- 87) The Fourth International Conference on Advanced Collaborative Networks, Systems and Applications (COLLA 2014), Seville, Spain, June 22 - 26, 2014.
- 88) 10th IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing, Miami, Florida, United States, October 22-25, 2014.
- 89) The 5th IEEE Symposium on Computational Intelligence and Data Mining (CIDM 2014), Orlando, Florida, December 9-12, 2014.
- 90) The 6th International Conference on Computational Aspects of Social Network 2014 (CASoN'14), Porto, Portugal, July 30-August 1, 2014.
- 91) The 5th FTRA International Conference on Creative Converged IT (CCIT 2014), Daejeon, Korea, April 9-12, 2014.
- 92) International Workshop on Biomedical Imaging and Sensing (BIS'14), Delhi, India, September 24-27, 2014.
- 93) The 2nd IEEE/ASE International Conference on Big Data Science and Computing (2nd BigData Science), Stanford, CA, USA, May 27-31, 2014.

- 94) The 2014 FTRA International Symposium on Advances in Bio-inspired Computing, Daejeon, Korea, April 9-12, 2014.
- 95) 3rd IEEE International Conference on Big Data Science and Engineering, Tsinghua University, Beijing China, Sept 24-26, 2014.
- 96) The 4th FTRA International Conference on Advanced IT, engineering and Management (FTRA AIM-14), Jeju, Vietnam, Korea, February 19-22, 2014.
- 97) The 10th International Conference on Advanced Data Mining and Applications (ADMA 2014), Guilin, December 19-21, 2014.
- 98) International Conference on Contemporary Computing and Informatics (IC3I 2014), Mysore, India, November 27-29, 2014.
- 99) 9th IEEE International Workshop on Trusted Collaboration (TrustCol 2014), Miami, Florida, October 22, 2014.
- 100) 6th International Workshop on Semantic Ambient Media Experiences (SAME 2014), Helsinki, Finland.
- 101) The World Congress on Engineering and Computer Science 2014 (WCECS2014), San Francisco, USA, October 22-24, 2014.
- 102) The Eighth International Conference on Sensor Technologies and Applications (SENSORCOMM 2014), Lisbon, Portugal, November 16-20, 2014.
- 103) The 9th KIPS International Conference on Ubiquitous Information Technologies and Applications (CUTE 2014), Guam, USA, Dec. 17-19, 2014.
- 104) The 8th IEEE International Workshop on Trusted Collaboration, in conjunction with IEEE CollaborateCom 2013, Austin, Texas, USA, October 20, 2013.
- 105) The 2nd International Conference on Big Data Science and Engineering (BDSE 2013), Sydney, Australia, December 3-5, 2013.
- 106) The FTRA 2013 International Symposium on Ubiquitous Computing and Embedded Systems (UCES-13), Danang, Vietnam, December 18-21, 2013.
- 107) The FTRA 9th International Symposium on Wireless sensor network Technologies and Applications for Smart Space (WTA 2013), Gwangju, Korea, September 4-6, 2013.
- 108) 9th International Conference on Advanced Data Mining & Applications (ADMA 2013), Hangzhou, China, December 12-14, 2013.
- 109) 2013 IEEE International Conference on Big Data and Distributed Systems, Sydney, Australia, December 3-5, 2013.
- 110) 6th International Conference on Emerging Trends in Engineering & Technology (ICETET-13), Nagpur, India, December 16-18, 2013.
- 111) The 1st International Conference on Smart Computing and Artificial Intelligence (ICSCAI 2013), Kunibiki Messe, Matsue, Japan, August 31-September 4, 2013.
- 112) 15th International Conference on Enterprise Information Systems (ICEIS 2013), ESEO, Angers Loire Valley, France, July 4-7, 2013.
- 113) IEEE International Conference on Multimedia and Expo (ICME 2013), San Jose, California, USA, July 15-19, 2013.
- 114) 2013 IEEE International Conference on Big Data (IEEE Big Data 2013), Silicon valley, CA, USA, October 6-9, 2013.

- 115) The 27th IEEE International Conference on Advanced Information Networking and Applications (AINA 2013), Barcelona, Spain, March 25-28, 2013.
- 116) The 17th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2013), Gold Coast, Australia, April 14-17, 2013.
- 117) the 19th International Conference on Distributed Multimedia Systems (DMS'2013), Brighton, United Kingdom, August 8-10, 2013.
- 118) The 25th International Conference on Software Engineering and Knowledge Engineering (SEKE'2013), Boston, USA, June 27-29, 2013.
- 119) The 9th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom2013), Austin, TX, USA, October 13-16, 2013.
- 120) The Thirteenth International Workshop on Multimedia Data Mining (MDMKDD 2013), in conjunction with the 19th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2013), Chicago, USA, August 11, 2013.
- 121) 2013 IEEE Symposium on Computational Intelligence and Data Mining (CIDM-2013), Singapore, April 15-19, 2013.
- 122) The 8th KIPS International Conference on Ubiquitous Information Technologies & Applications (CUTE 2013), Danang, Vietnam, December 18-20, 2013.
- 123) The 5th FTRA International Conference on Computer Science and its Applications (CSA-13), Danang, Vietnam, December 18-21, 2013.
- 124) 2013 IEEE Second International Conference on Image Information Processing, Wagnaghat, Shimla, Himachal Pradesh, INDIA, DEcember 9-11, 2013.
- 125) World Congress on Information and Communication Technologies(WICT 2013), Hanoi, Vietnam, December 15-18, 2013.
- 126) The 2013 FTRA International Conference on Advanced IT, engineering and Management (FTRA AIM-13), in Seoul, Korea, February 21-23, 2013.
- 127) IADIS International Conference Applied Computing, Fort Worth, Texas, USA, October 23-25, 2013.
- 128) The 2nd International Conference on Advanced Signal Processing, Harbin, China, April 18-20, 2013.
- 129) The Third International Conference on Advanced Collaborative Networks, Systems and Applications (COLLA 2013), Nice, France, July 21-26, 2013.
- 130) 24th International Conference on Database and Expert Systems Applications (DEXA 2013), Prague, Czech Republic, August 26-30, 2013.
- 131) The 8th International Conference on Future Information Technology (FutureTech2013), Gwangju, Korea, Sep. 4-6, 2013.
- 132) The Eighth International Multi-Conference on Computing in the Global Information Technology (ICCGI 2013), Nice, France, July 21-26, 2013.
- 133) The Seventh International Conference on Digital Society (ICDS 2013), Nice, France, February 24 - March 1, 2013.
- 134) The International Conference on Intelligence Fusion (ICIF2013), Jeju Island, Korea, June 27-29, 2013.

- 135) IEEE/GRSS International Geoscience and Remote Sensing Symposium (IGARSS), Melbourne, Australia, July 21-26, 2013.
- 136) The 16th IEEE International Symposium on Object/Component/Service-oriented Real-time Distributed Computing (ISORC 2013), Paderborn Germany, June 19-21, 2013.
- 137) The 12th IEEE International Conference on Ubiquitous in Computing and Communications (IUCC-2013), Melbourne, Australia, July 16-18, 2013.
- 138) The 5th International ACM Conference on Management of Emergent Digital EcoSystems (MEDES'13), Luxembourg, Belgium, October 2013.
- 139) The 13th SIAM International Conference on Data Mining (SDM 2013), Austin, TX, USA, May 2-4, 2013.
- 140) The Seventh International Conference on Sensor Technologies and Applications (SENSORCOMM 2013), Barcelona, Spain, August 25-31, 2013.
- 141) International Conference on Signal Processing and Multimedia Applications (SIGMAP 2013), Reykjavik, Iceland, July 29-31, 2013.
- 142) 14th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2013), Honolulu, Hawaii, USA, July 1 - 3, 2013.
- 143) International Symposium on Security in Computing and Communications (SSCC'13), Ysore, India, August 22-24, 2013.
- 144) The World Congress on Nature and Biologically Inspired Computing (NaBIC), Fargo, USA, August, 12-14, 2013.
- 145) The Seventh International Conference on Advances in Semantic Processing (SEMAPRO 2013), Porto, Portugal, September 29 - October 3, 2013.
- 146) IEEE International Conference on Multimedia & Expo (ICME 2012), Melbourne, Australia, July 9-13, 2012.
- 147) The 7th IEEE International Workshop on Trusted Collaboration (TrustCol 2012), In conjunction with IEEE CollaborateCom 2012, Pittsburgh, Pennsylvania, USA, October 14, 2012.
- 148) World Congress on Information and Communication Technologies (WICT 2012), India, Oct 30-Nov 2, 2012.
- 149) The 4th World Congress on Nature and Biologically inspired Computing (NaBIC 2012), Mexico City, Mexico, November 05-09, 2012.
- 150) International Conference on Security in Computer Networks and Distributed Systems (SNDS'12), Trivandrum, India, 11-12 October 2012.
- 151) The 7th International Conference on Frontier of Computer Science and Technology (FCST-12), Suzhou, China, November 21-23, 2012.
- 152) World Congress & 6th International Conference on Emerging Trends in Engineering & Technology (ICETET), Kobe University, Himeji, Japan, 2012.
- 153) The 5th IEEE International Workshop on Service Science and Systems (SSS 2012), in conjunction with COMPSAC 2012, Izmir, Turkey, July 16-20, 2012.
- 154) 10th International Conference on Software Engineering Research, Management and Applications (SERA2012), Kunming, Yunnan Province, China, April 16-18, 2012.
- 155) The Sixth International Conference on Sensor Technologies and Applications (SENSORCOMM 2012), Rome, Italy, August 19-24, 2012.

- 156) International Conference on Software Engineering and Mobile Application Modelling and Development (ICSEMA-2012), B.S.Abdur Rahman University, Chennai, India, December 19-21, 2012.
- 157) International Conference on Information Science and Applications, Suwon Republic of Korea, May 23-25, 2012.
- 158) 11th IEEE International Conference on Cognitive Informatics & Cognitive Informatics & Cognitive Computing, Kyoto, Japan, August 22-24, 2012.
- 159) The 7th International Conference on Ubiquitous Information TEchnologies & Applications (CUTE 2012), Hong Kong, China, Dec. 20-22, 2012.
- 160) IADIS International Conference Applied Computing 2012, Madrid, Spain, October 19 - 21, 2012.
- 161) The 2012 FTRA International Symposium on Advances in Cryptography, Security and Applications for Future Computing (ACSA-12), Jeju, Korea, November 22-25, 2012.
- 162) 13th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2012), Kyoto, Japan, August 8-10, 2012.
- 163) International Confernce on Signal Processing and Multimedia Applications (SIGMAP 2012), Rome, Italy, July 24-27, 2012.
- 164) The 24th International Conference on Software Engineering and Knowledge Engineering (SEKE 2012), San Francisco Bay, USA, July 1-3, 2012.
- 165) 5th International Workshop on Semantic Ambient Media Experience (SAME 2012), Newcastle, UK, June 18, 2012.
- 166) The Third International Conference on Models and Ontology-based Design of Protocols, Architectures and Services (MOPAS 2012), Chamonix / Mont Blanc, France, April 29 - May 4, 2012.
- 167) International Conference on Management of Emergent Digital EcoSystems (MEDES), Addis Ababa (Ethiopia), October 28-31, 2012.
- 168) International Conferene on Knowledge Discovery and Information Retrieval (KDIR 2012), Barcelona, Spain, October 4-7, 2012.
- 169) 2012 International Joint Conference on Neural Networks (IJCNN 2012), Brisbane, Australia, June 10-15, 2012.
- 170) 9th IEEE International Conference on Networking, Sensing and Control, Beijing, China, April 11-14, 2012.
- 171) International Conference on Machine Learning and Cybernetics (ICMLC), Xian, China, July 15-18, 2012.
- 172) IEEE International Conference on Multimedia & Expo, Melbourne, Australia, July 9-13, 2012.
- 173) 11th IEEE/ACIS International Conference on Computer and Information Science (ICIS 2012), Shanghai, China, May 30-June 1, 2012.
- 174) 14th International Conference on Enterprise Information Systems, Wroclaw, Poland, June 28-July 1, 2012.
- 175) The Seventh International Multi-Conference on Computing in the Global Information Technology, Venice, Italy, June 24-29, 2012.
- 176) The 5th FTRA International Conference on Human-centirc Computing (HumanCom 2012), Gwangju, Korea, September 6-8, 2012.

- 177) The 18th International Conference on Distributed Multimedia Systems (DMS 2012), Miami, USA, August 9-11, 2012.
- 178) 23rd International Conference on Database and Expert Systems Applications (DEXA 2012), Vienna, Austria, September 3-7, 2012.
- 179) The 8th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom2012), Pittsburgh, Pennsylvania, USA, October 14 - 17, 2012.
- 180) The Second International Conference on Advanced Collaborative Networks, Systems and Applications, Venice, Italy, June 24-29, 2012.
- 181) 2012 FTRA International Conference on Advanced IT, engineering and Management, Jeju, Korea, July 10-12, 2012.
- 182) 8th International Conference on Advanced Data Mining and Applications (ADMA 2012), Nanjing, China, December 15-18, 2012.
- 183) 12th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2012), Kuching, Sarawak, Malaysia, August 27-31, 2012.
- 184) The 16th Pacific-Asia Conference on Knowledge Discovery and Data Mining, Kuala Lumpur, Malaysia, May 29-June 1, 2012.
- 185) The Fourth International Conferences on Advances in Multimedia (MMEDIA 2012), Chamonix / Mont Blanc, France, April 29 - May 4, 2012.
- 186) The 26th IEEE International Conference on Advanced Information Networking and Applications (AINA-2012), Fukuoka, Japan, March 26-29, 2012.
- 187) The International Conference on IT Convergence and Security 2011 (ICITCS 2011), Suwon, Republic of Korea, December 14 - 16, 2011.
- 188) 7th International Conference on Advanced Data Mining and Applications, Tsinghua University, Beijing, December 17-19, 2011.
- 189) Emerging Topics Outside the Box of FCST 2011, Changsha, China, November 16-18, 2011.
- 190) 2011 IEEE 14th International Multitopic Conference (INMIC2011), Sir Syed University of Engineering and Technology, Karachi, Pakistan, Dec 22-24.
- 191) IADIS International Conference APPLIED COMPUTING 2011, Rio de Janeiro, Brazil, November 6-8, 2011.
- 192) The 6th International Workshop on Trusted Collaboration (TrustCol 2011), in conjunction with CollaborateCom 2011, Orlando, Florida, USA, October 15th, 2011.
- 193) The Seventh IEEE International Workshop on Wireless and Sensor Networks Security (WSNS'11), in conjunction with The Eighth IEEE International Conference on Mobile Ad-hoc and Sensor Systems, Valencia, Spain, October 21, 2011.
- 194) The 7th International Symposium on Wireless sensor network Technologies and Applications for Smart Space (WTA 2011), Jeju, Korea, December 12-15, 2011.
- 195) World Congress on Engineering and Computer Science 2011 (WCECS2011), San Francisco, USA, 19-21 October, 2011.



- 196) The 2011 2nd International Congress on Computer Applications and Computational Science (CACCS 2011) , Bali Dynasty Resort, Bali, Indonesia, 15-17 November 2011.
- 197) ACM Multimedia Data Mining workshop (MDMKDD), in conjunction with ACM KDD, San Diego, CA, August 21-24, 2011.
- 198) International Conference on Security in Computer Networks and Distributed Systems (SNDS-2012), Trivandrum, India, October 11-12, 2012.
- 199) 20th ACM Conference on Information and Knowledge Management (CIKM 2011), Glasgow, Scotland, UK, October 24-28, 2011.
- 200) Third world Congress on Nature and Biologically Inspired Computing (NaBIC 2011), Salamanca, Spain, October 19-21, 2011.
- 201) The Fifth International Conference on Sensor Technologies and Applications (SENSORCOMM 2011), Cote d'Azur, France, August 21-27, 2011.
- 202) The 26th IEEE International Conference on Advanced Information Networking and Applications (AINA-2012), Tokyo, Japan, March 26-29, 2012.
- 203) The 1st International Workshop on Advances in Semantic Information Retrieval (ASIR'11), Szczecin, Poland, September 19-21, 2011.
- 204) International Conference on Knowledge Discovery and Information Retrieval, Paris, France, October 26-29.
- 205) The 2011 FTRA International Workshop on Human centric computing, P2P, Grid and Cloud computing (HPGC-11), Jeju, Korea, December 12-15.
- 206) 2011 International Conference on Machine Learning and Cybernetics, Guilin, China, July 10-13, 2010.
- 207) The 4th IEEE International Workshop on Service Science and Systems (SSS 2011), in conjunction with COMPSAC, Munich, Germany, July 18-22, 2011.
- 208) 12th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2011), Sydney, Australia, July 6-8, 2011.
- 209) 2011 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2011), Anchorage, Alaska, USA, October 9-12, 2011.
- 210) International Conference on Signal Processing and Multimedia Applications (SIGMAP 2011), Seville, Spain, July 18-21, 2011.
- 211) 9th ACIS International Conference on Software Engineering Research Management and Applications (SERA2011), Baltimore, USA, August 10-12, 2011.
- 212) The 23rd International Conference on Software Engineering and Knowledge Engineering (SEKE 2011), Miami Beach, USA, July 7-9, 2011.
- 213) 4th International Workshop on Semantic Ambient Media Experience (SAME 2011), Brisbane, Australia, June 29-July 2, 2011.
- 214) The 15th Pacific-Asia Conference on Knowledge Discovery and Data Mining, Shenzhen, China, May 24-27, 2011.
- 215) The 2011 International Conference on Management of Emergent Digital EcoSystems (MEDES'11), San Francisco, California, USA, November 21-24, 2011.

- 216) The 2011 International Workshop on Multimedia, Communication and Convergence Technologies (MCC 2011), Crete, Greece, June 28-30, 2011.
- 217) The 2011 International Workshop on IT Converged Services and Applications (ITCSA-2011), In conjunction with the 2011 International Conference on Parallel Processing (ICPP-2011), Taipei, Taiwan September 13-16, 2011.
- 218) The 14th IEEE International Symposium on Object/Component/Service-oriented Real-time Distributed Computing (ISORC 2011), Newport Beach, California, USA, March 28-31, 2011.
- 219) The 2011 IEEE International Conference on Intelligent Robotics, Automations and Applications (IRoA-11), Gwangju, Korea, October 20-22, 2011.
- 220) The 2011 IEEE/ICNSC International Conference on Networking Sensing (ICNSC 2011), Delft, the Netherlands, April 11 - 13, 2011.
- 221) IEEE International Conference on Multimedia and Expo (ICME 2011), Barcelona, Spain, July 11-15, 2011.
- 222) The International Conference on Information Science and Technology (ICIST 2011), Nanjing, China, March 26-28, 2011.
- 223) International Conference on Information Science and Applications (ICISA 2011), Jeju Island, Korea, April 26-29, 2011.
- 224) The 10th IEEE/ACIS International Conference on Computer and Information Science (ICIS 2011), Sanya, Hainan Island, China, May 16 - 18, 2011.
- 225) The 1st ACIS/JNU International Conference on Computers, Networks, Systems and Industrial Engineering (CNSI 2011), Jeju Island, Korea, May 23 - 25, 2011.
- 226) 13th International Conference on Enterprise Information Systems (ICEIS 2011), Beijing, China, June 8-11, 2011.
- 227) The International Conference on Computer Convergence Technology (IC CCT 2011), Seoul, Korea, October 20-22, 2011.
- 228) The 4th International Conference on Human-centric Computing (HumanCom-11), Enshi, China, August 11-13, 2011.
- 229) 22nd International Conference on Database and Expert Systems Applications (DEXA 2011), Toulouse, France, August 29-September 2, 2011.
- 230) 7th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2011), Orlando, Florida, USA, October, 2011.
- 231) The 3rd FTRA International Conference on Computer Science and its Applications (CSA-11), Jeju, Korea, December 12-15, 2011.
- 232) The 2011 International Conference on Multimedia and Signal Processing (CMSP'11), Guilin, China, May 14-15, 2011.
- 233) 2011 International Conference on Computer Education, Simulation and Modeling (CESM2011), Wuhan, China, June 18-19, 2011.
- 234) Fourth International C\* Conference on Computer Science and Software Engineering (C3S2E'11), Montreal, Canada, 16-18 May, 2011.

- 235) IADIS International Conference Applied Computing (AC 2010), Timisoara, Romania, October 14-16, 2010.
- 236) 2010 International Conference on Signal Processing, Image Processing and Pattern Recognition (SIP 2010), Jeju Island, Korea, December 13-15, 2010.
- 237) 3rd International Workshop on Semantic Ambient Media Experience (SAME 2010), Malaga, Spain, November 10th-12th, 2010.
- 238) The 2011 International Conference on Multimedia and Signal Processing (CMSP'11), Guilin, China, May 14-15, 2011.
- 239) 6th IEEE International Works hop on Wireless and Sensor Networks Security (WSNS'10), in conjunction with the Seventh IEEE International Conference on Mobile Ad-hoc and Sensor Systems, San Francisco, CA, USA, November 8, 2010.
- 240) The Third IEEE International Workshop on Barriers towards Internet-Driven Information Services (BINDIS 2010), Seoul, Korea, July 19-23, 2010.
- 241) The 2010 International Congress on Computer Applications and Computational Science (CACCS 2010), Singapore, December 4-6, 2010.
- 242) The 19th ACM International Conference on Information and Knowledge Management (CIKM 2010), Toronto, Canada, October 26-30, 2010.
- 243) The 2010 International Symposium on Collaborative Technologies and Systems (CTS 2010), Chicago, Illinois, USA, May 17-21, 2010.
- 244) 6th International ICST Conference on Collaborative Computing: Networking, Applications and Worksharing (COLLABORATECOM 2010), Chicago, Illinois, USA, October 9-12, 2010.
- 245) 21st International Conference on Database and Expert Systems Applications (DEXA'10) Bilbao, Spain, August 30-September 3, 2010.
- 246) The 16th International Conference on Distributed Multimedia Systems (DMS'2010), Oak Brook, Illinois, USA, October 14-16, 2010.
- 247) The 3rd International Conference on Human-centric Computing (HumanCom-10), Cebu, Philippines, August 11-13, 2010.
- 248) Third international Conference on Emerging Trends in Engineering and Technology (ICETET2010), Birla Institute of Technology & Science Pilani Goa Campus, Zuarinagar, Goa, India, April 19-21, 2010.
- 249) 9th IEEE/ACIS International Conference on Computer and Information Science (ICIS 2010), Yamagata, Japan, August 18-20, 2010.
- 250) International Conference on Information Science and Applications (ICISA 2010), Seoul, Korea, April 21-23, 2010.
- 251) 2010 IEEE International Conference on Multimedia & Expo, Singapore, July 19-23, 2010.
- 252) International Conference on Machine Learning and Cybernetics (ICMLC), Qingdao, Shangdong, China, July 11-14, 2010.
- 253) The Fourth International Conference on Management of e-Commerce and e-Government (ICMeCG 2010), Chengdu, China, October 23-24, 2010.
- 254) The 2010 IEEE International Conference of Networking, Sensing and Control, Chicago, IL, USA, April 11-13, 2010.

- 255) The 13th IEEE International Symposium on Object/component/service-oriented Real-time distributed computing (ISORC 2010), Carmona, Spain, May 5-6, 2010.
- 256) The 2nd International Conference on Information Technology Convergence and Services (ITCS 2010), Cebu, Philippines, August 11-13, 2010.
- 257) International Conference on Knowledge Discovery and Information Retrieval (KDIR 2010), Valencia, Spain, October 25-28, 2010.
- 258) Tenth International Workshop on Multimedia Data Mining, in conjunction with KDD-2010, Washington, DC, USA, July 25, 2010.
- 259) The International conference on Management of Emergent Digital EcoSystems (MEDES'10), Bangkok, Thailand, October 26-29, 2010.
- 260) The Second International Conferences on Advances in Multimedia, Athens, Greece, June 13-19, 2010.
- 261) 11th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2010), Daegu, Korea, August 30-September 2, 2010.
- 262) The Third IEEE International Workshop on Real-Time Service-Oriented Architecture and Applications (RTSOAA 2010), Miami, Florida, USA, July 5, 2010.
- 263) The 22nd International Conference on Software Engineering and Knowledge Engineering (SEKE'2010), Redwood City, California, USA, July 1-3, 2010.
- 264) 8th ACIS International Conference on Software Engineering Research, Management and Applications (SERA 2010), Montreal, Canada, May 24-26, 2010.
- 265) International Conference on Signal Processing and Multimedia Applications (SIGMAP 2010), Athens, Greece, July 26-28.
- 266) 2010 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2010), Istanbul, Turkey, October 10-13, 2010.
- 267) The fifth International Workshop on Trusted Collaboration (TrustCol 2010), in conjunction with the 5th International Conference on Collaborative Computing: Networking, Applications, and Worksharing (CollaborateCom 2010), Chicago, Illinois, USA, October 9-12, 2010.
- 268) The 2nd International Conference on Emerging Trends in Engineering and Technology (ICETET-09), December 16-18, 2009, Nagpur, India.
- 269) Workshop on Trusted Collaboration 2009 (TrustCol-2009), in conjunction with the 5th International Conference on Collaborative Computing: Networking, Applications and Worksharing, (CollaborateCom-2009), Washington D.C., USA, November 11 - 14, 2009.
- 270) 5th IEEE International Workshop on Wireless and Sensor Networks Security (IEEE WSNS 2009), in conjunction with The Sixth IEEE International Conference on Mobile Ad-hoc and Sensor Systems, Macau SAR, P.R.C., October 12th, 2009.
- 271) IADIS International Conference Applied Computing 2009, Rome, Italy, November 19-21, 2009.

- 272) The 2009 International Symposium on Signal Processing, Image Processing and Pattern Recognition (SIP 2009), Jeju Island, Korea, December 10-12, 2009.
- 273) 7th ACIS International Conference on Software Engineering Research, Management and Applications (SERA2009), Haikou, Hainan Island, China, December 2-4, 2009.
- 274) The 4th International Symposium on Cloud and Convergence Computing (2C-Com 09), Vancouver, Canada, August 29-31, 2009.
- 275) International Conference on Signal Processing and Multimedia Applications (SIGMAP 2009), Milan, Italy, July 7-10, 2009.
- 276) The Second International Workshop On Real-Time Service-Oriented Architecture and Applications (RTSOAA 2009), in Conjunction with IEEE COMPSAC 2009, Seattle, Washington, July 20-July 24, 2009.
- 277) International Conference on Machine Learning and Cybernetics (ICMLC), Boading, Hebei, China, July 12-15, 2009.
- 278) International Conference on Management of e-Commerce and e-Government (ICMeCG2009), Nanchang, P. R. China, September 16-19, 2009.
- 279) International Conference on Knowledge Discovery and Information Retrieval (KDIR), Madeira, Portugal, October 6-8, 2009.
- 280) 6th International Workshop on Software Cybernetics (IWSC), In conjunction with 33rd Annual IEEE International Computer Software and Applications Conference (COMPSAC 2009), Seattle, Washington, July 20-July 24, 2009.
- 281) The First International Conference on Advances in Multimedia (MMEDIA 2009), Colmar, France, July 19-24, 2009.
- 282) The 5th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2009), Crystal City, Washington D.C., USA, November 11-14, 2009.
- 283) 5th IEEE International Workshop on Wireless and Sensor Networks Security (IEEE WSNS 2009), in conjunction with the Sixth IEEE International Conference on Mobile Ad-hoc and Sensor Systems, Macau SAR, China, October 5th, 2009.
- 284) The 2009 IEEE International Conference on e-Business Engineering (ICEBE 2009), Macau, China, October 21-23, 2009.
- 285) The 2009 International Symposium on Signal Processing, Image Processing and Pattern Recognition, Jeju Island, Korea, December 10-12, 2009.
- 286) The 2nd International Conference on Computer Science and its Applications (CSA-09), Jeju Island, Korea, December 10-12, 2009.
- 287) The 2009 International Symposium on Database Theory and Application (DTA 2009), Jeju Island, Korea, December 10-12, 2009.
- 288) International Joint Journal Conference in Engineering (IJJCE 2009), Kerala, India.
- 289) 2009 International Conference on Distributed Multimedia Systems (DMS 2009), Redwood City, California, USA, September 10-12, 2009.
- 290) 20th International Conference on Database and Expert Systems Applications (DEXA 2009), Linz, Austria, August 31 - September 4, 2009.

- 291) Computer and Network Security Symposium, in conjunction with IEEE International Wireless Communications & Mobile Computing Conference (IWCMC 2008), Maris Conference Centers, Chania, Crete Island, Greece, August 6-8, 2008.
- 292) The 2nd IEEE International Workshop on Barriers towards INternet-Driven Informat ion Services (BINDIS 2009), Seattle, USA, July 20-July 24, 2009, in conjunction with COMPSAC 2009.
- 293) 21st International Conference on Software Engineering and Knowledge Engineering (SEKE'2009), Boston, USA, July 1-3, 2009.
- 294) The 2009 International Workshop on Computer Graphics, Multimedia and Security (CGMS-09), Korea University, Seoul, Korea, June 25-27, 2009, in conjunction with ISA-09.
- 295) 8th IEEE/ACIS International Conference on Computer and Information Science, Shanghai, China, June 1-3, 2009.
- 296) The 10th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing, Catholic University of Daegu, May 27-29, 2009.
- 297) The 2009 International Symposium on Collaborative Technologies and Systems (CTS 2009), Baltimore, Maryland, USA, May 18-22, 2009.
- 298) 13th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD-09), Bangkok, Thailand, April 27-30, 2009.
- 299) The 2009 IEEE International Conference on Networking, Sensing and Control (ICNSC2009), Okayama, Japan, March 26 - 29, 2009.
- 300) 2009 International Conference on Computational Intelligence and Natural Computing (CINC 2009), Hubei, China, January 12-13, 2009.
- 301) The 4th International Conference on Collaborative Computing: Networking, Applications and Worksharing, Orlando, FL, USA, November 13-16, 2008.
- 302) 1st ACM International Workshop on Semantic Ambient Media Experience, Vancouver, Canada, October 31, 2008, in Conjunction with ACM Multimedia 2008.
- 303) 2008 International Conference on Signal Processing, Image Processing and Pattern Recognition (SIP 2008), Hainan Island, China, December 13-15, 2008.
- 304) Fifth International Conference on Soft Computing as Transdisciplina ry Science and Technology, Paris, France, October 27-31, 2008.
- 305) World Congress on Engineering and Computer Science 2008 (WCECS2008), San Francisco, USA, 22-24 October, 2008.
- 306) Workshop on Trusted Collaboration 2008 (TrustCol-2008), in conjunction with the 3rd International Conference on Collaborative Computing: Networking, Applications and Worksharing, Orlando, FL, USA, in November 13-16, 2008.
- 307) 2008 International Conference on MultiMedia and Information Technology (MMIT 2008), Three Gorges, China, December 30-31, 2008.
- 308) The 4th IEEE International Workshop on Wireless and Sensor Networks Security (WSNS'08), in conjunction with the 5th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS'08), Atlanta, Georgia, USA. September 29 - October 2, 2008.

- 309) The 2008 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2008), Singapore, October 12 - 15, 2008.
- 310) IEEE International Conference on e-Business Engineering (ICEBE 2008), Xi'an, China, October 22-24, 2008.
- 311) The 1st International Workshop on Wireless Security and Privacy (WiSP'08), in conjunction with the 28th International Conference on Distributed Computing Systems (ICDCS'08), Beijing, China, June 20, 2008.
- 312) First Pacific-Asia Workshop on Web Mining and Web-based Application, in conjunction with The Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2008), Osaka, Japan, May 20, 2008.
- 313) 9th International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing (SNPD2008), Phuket, Thailand, August 6 - 8, 2008.
- 314) SIGMAP 2008 International Conference on Signal Processing and Multimedia Applications, Porto, Portugal, July 26-29, 2008.
- 315) The 20th International Conference on Software Engineering and Knowledge Engineering (SEKE'2008), San Francisco Bay, USA, July 1-3, 2008.
- 316) The First International Workshop on Real Time Service-Oriented Architecture and Applications (RTSOAA'08), in conjunction with IEEE COMPSAC 2008, Turku, Finland, July 28-August 1, 2008.
- 317) The 10<sup>th</sup> Pacific Rim International Conference on Artificial Intelligence (PRICAI), Hanoi, Vietnam, December 15-19, 2008.
- 318) The 12<sup>th</sup> Pacific-Asia Conference on Knowledge Discovery and Data Mining, Osaka, Japan, May 20-23, 2008.
- 319) 5th International Workshop on Software Cybernetics (IWSC'08), in conjunction with the 32nd Annual IEEE International Computer Software and Applications Conference (COMPSAC 2008), Turku, Finland, July 28 - August 1, 2008.
- 320) Second IEEE International Conference on Semantic Computing (IEEE ICSC2008), Santa Clara, CA, USA, August 4th-7th, 2008.
- 321) 2008 IEEE International Conference on Networking, Sensing and Control, Sanya, China, April 6-8, 2008.
- 322) 2008 International Conference on Machine Learning and Cybernetics, Kunming, China, July 12-15, 2008.
- 323) The Computer and Network Security Symposium, in conjunction with the ACM International Wireless Communications and Mobile Computing Conference 2008 (IWCMC 08), Crete Island, Greece, August 6-8, 2008.
- 324) 7th IEEE/ACIS International Conference on Computer and Information Science, in conjunction with 2nd IEEE/ACIS International Workshop on e-Activity (IEEE-IWEA2008), Portland, Oregon, USA, May 14 - 16, 2008.
- 325) The 2008 International Conference on Distributed Multimedia Systems (DMS'2008), Hyatt Harborside, Boston, USA, September 4-6, 2008.
- 326) The 4th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom2008), 2008, Orlando, Florida, USA, November 13 - 16.

- 327) The 2008 International Symposium on Collaborative Technologies and Systems (CTS 2008), Irvine, California, USA, May 19-23, 2008.
- 328) The Fifth IEEE International Conference on Soft Computing as Transdisciplinary Science and Technology (CSTST'08), Paris, France, October 26-30, 2008.
- 329) IADIS International Conference Applied Computing 2008, Algarve, Portugal, April 10-13, 2007.
- 330) The Eight International Workshop on Multimedia Data Mining (MDM/KDD2007), in conjunction with The Thirteenth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2007), San Jose, CA, USA, August 12, 2007.
- 331) The Second International Workshop on Trusted Collaboration, 2007 (TrustCol-2007), in conjunction with CollaborateCom 2007, White Plains, New York, USA, November 12th - 15th, 2007.
- 332) The 2007 International Workshop on Intelligent Systems and Smart Home (WISH-07), in conjunction with The 5th International Symposium on Parallel and Distributed Processing and Applications (ISPA-07), Niagara Falls, Canada, August 29-September 1, 2007.
- 333) 3rd IEEE International Workshop on Wireless and Sensor Networks Security (IEEE WSNS 2007), in conjunction with 4th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (IEEE MASS 2007), Pisa, Italy, October 8, 2007.
- 334) The 2007 International Conference on Intelligent Pervasive Computing (IPC-07), Jeju Island, Korea, October 11-13, 2007.
- 335) 2007 International Workshop on Semantic Computing and Multimedia Systems (SCMS07), in conjunction with the 2007 IEEE International Conference on Semantic Computing (ICSC), Irvine, California, September 17-19, 2007.
- 336) SIGMAP 2007 International Conference on Signal Processing and Multimedia Applications, July 28-31, Barcelona, Spain.
- 337) 2007 IEEE International Conference on Systems, Man and Cybernetics (SMC 2007), October 7-10, 2007, Montreal, Canada.
- 338) The 19th IEEE International Conference on Tools with Artificial Intelligence (ICTAI-2007), Patras, Greece, October 29-31, 2007.
- 339) International Conference on Machine Learning and Cybernetics 2007, Hong Kong, China, August 19-22, 2007.
- 340) 8th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing (SNPD2007), Qingdao, China, July 30-Aug 1, 2007.
- 341) IEEE International Conference on e-Business Engineering (ICEBE 2007), Hong Kong, China, October 24-26, 2007.
- 342) The Thirteenth International Conference on Distributed Multimedia Systems (DMS'2007), San Francisco Bay, USA, September 6-8, 2007.
- 343) Computer and Network Security Symposium, in conjunction with International Wireless Communications and Mobile Computing Conference



- 2007 (IWCMC 07), Turtle Bay Resort, Honolulu, Hawaii, August 12-16, 2007.
- 344) The 11th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD'07), Nanjing, China, May 22 - 25, 2007.
- 345) IEEE Joint Conference on E-Commerce Technology (CEC'07) and Enterprise Computing, E-Commerce and E-Services (EEE'07), National Center of Sciences, Tokyo, Japan, June 23-26, 2007.
- 346) 2007 IEEE International Conference on Networking, Sensing and Control (ICNSC07), London, United Kingdom, April 15-17, 2007.
- 347) IADIS International Conference Applied Computing 2007, Salamanca, Spain, February 17-20, 2007.
- 348) The Third International Workshop on Information Assurance (WIA-2007), in conjunction with The 26th IEEE International Performance Computing and Communications Conference (IPCCC-2007) New Orleans, Louisiana, USA, April 11-13, 2007.
- 349) The Nineteenth International Conference on Software Engineering and Knowledge Engineering (SEKE'2007), Boston, USA, July 9-11, 2007.
- 350) The 1st International Workshop on Semantic-enhanced Multimedia Presentation Systems (SEMPS), in collaboration with the 1st International Conference on Semantics And digital Media Technologies (SAMT) Athens, Greece, December 6, 2006.
- 351) The 18th IEEE International Conference on Tools with Artificial Intelligent, Washington D.C., Nov. 13-15, 2006.
- 352) IEEE International Symposium on Multimedia (ISM2006), San Diego, CA, December 11-13, 2006.
- 353) Seventh International Workshop on Multimedia Data Mining (MDM/KDD2006), in conjunction with The Twelfth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2006), Philadelphia, PA, USA, August 20-23, 2006.
- 354) Workshop on Trusted Collaboration 2006 (TrustCol-2006), in conjunction with the 2nd International Conference on Collaborative Computing: Networking, Applications and Worksharing, Atlanta, Georgia, USA, November 17th - 20th, 2006.
- 355) IEEE International Conference on Multimedia & Expo (ICME), Toronto, Canada, July 9-12, 2006.
- 356) The International Conference on Wireless Algorithms, Systems, and Applications, Xian, China, August 15 -18, 2006.
- 357) IEEE Joint Conference on E-Commerce Technology (CEC'06) and Enterprise Computing, E-Commerce and E-Services (EEE'06), San Francisco, California, June 26-29, 2006.
- 358) The Twelfth International Conference on Distributed Multimedia Systems (DMS '06), Grand Canyon, USA, August 30-September 1, 2006.
- 359) 2006 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2006), Taipei, Taiwan, R.O.C., October 8-11, 2006.
- 360) 2006 IEEE International Conference on Networking, Sensing and Control, Miami, Florida, USA, April 23-25, 2006.

- 361) Computer and Network Security Symposium, Vancouver, Canada, July 3-6, 2006.
- 362) The 20th IEEE Advanced Information Networking and Applications (AINA2006), Vienna, Austria, April 18-20, 2006.
- 363) The IEEE International Conference on e-Business Engineering (ICEBE 2005), Tsinghua University, China, October 18-21, 2005.
- 364) Fourth International Conference on Intelligent Multimedia Computing and Networking, Salt Lake City, Salt Lake City, Utah, USA, July 21-26, 2005.
- 365) The 4th International Symposium on Parallel and Distributed Computing, Lille, France, July 4-6,, 2005.
- 366) The 4th IEEE International Conference on Cognitive Informatics (ICCI 2005), University of California, Irvine, USA, August 8 - 10, 2005.
- 367) The Eleventh International Conference on Distributed Multimedia Systems (DMS'2005), Banff, Canada, September 5 - 7, 2005.
- 368) The 7th International Workshop on Multimedia Network Systems and Applications, in conjunction with ICDCS-2005, Columbus, Ohio, USA, June 6-9, 2005.
- 369) The 19th International Conference on Advanced Information Networking and Applications (AINA2005), Tamkang University, Taiwan, R.O.C., March 28-30, 2005.
- 370) The First International Conference on Embedded Software and Systems (ICCESS'04), Hangzhou, PRC., December 9-10, 2004.
- 371) The 16th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2004), Boca Raton, Florida, USA, November 15-17, 2004.
- 372) 1st International Symposium of Web Intelligence and Security (WIS 2005), Salt Lake City, Utah, USA, July 21-26, 2005.
- 373) 15th International Symposium on Methodologies for Intelligent Systems, Saratoga Springs, New York, USA, May 25-28, 2005.
- 374) 15th IRMA International Conference, New Orleans, Louisiana, USA, May 23-26, 2004.
- 375) The 2004 International Conference on Embedded and Ubiquitous Computing (EUC'2004), Aizu-Wakamatsu City, Japan, August 26-28, 2004.
- 376) The Tenth International Conference on Distributed Multimedia Systems (DMS'2004), Hotel Sofitel, San Francisco Bay, USA, September 8-10, 2004.
- 377) The 11th ACM International Symposium on Advances in Geographic Information Systems (ACM GIS'03), New Orleans, Louisiana, USA, November 7-8, 2003.
- 378) The 6th International Workshop on Multimedia Network Systems and Applications (MNSA'2004), in conjunction with The 24th International Conference on Distributed Computing Systems (ICDCS-2004), Tokyo, Japan, March 23-26, 2004.
- 379) The 18th International Conference on Advanced Information Networking and Applications (AINA2004), Fukuoka Institute of Technology (FIT), Fukuoka, Japan, March 29-31, 2004.

- 380) 2004 Information Resources Management Association (IRMA) International Conference, New Orleans, May 23-26, USA.
- 381) The 8th International Conference on Distributed Multimedia Systems (DMS'2002), San Francisco, California, USA, September 26 - 28, 2002.
- 382) The International Symposium on Information Systems and Engineering (ISE 2002), San Diego, CA, USA, 2002.
- 383) The 6th World Multi-conference on Systemic, Cybernetics and Informatics (SCI 2002), Orlando, FL, USA, July 14-18.
- 384) First International Workshop on Web Geographical Information Systems WGIS 2001 in conjunction with WISE 2001 2nd International Conference on Web Information Systems Engineering, Kyoto, Japan, December 3, 2001.
- 385) The Seventh International Conference on Distributed Multimedia Systems (DMS'2001), Tamkang University, Taipei, Taiwan, September 26 - 28, 2001.
- 386) The 3rd International Conference on Information Reuse and Integration (IRI-2001), Las Vegas, Nevada, USA, November 27 - 29, 2001.
- 387) The International Symposium on Information Systems and Engineering, Las Vegas, Nevada, USA, June 25-28, 2001.
- 388) The Second International Workshop on Software Engineering and Multimedia Applications (SEMA-2000).

- **Session Chair:**

- 1) The 2008 IEEE International Conference on Information Reuse and Integration (IEEE IRI-08), Hilton Hotel, Las Vegas, Nevada, USA, July 13 - 15, 2008.
- 2) First IEEE International Conference on Semantic Computing (IEEE ICSC2007), September 17-19, 2007, Irvine, California, USA.
- 3) The IEEE International Workshop on Multimedia Technology and Ubiquitous Computing (MTUC 2006), Taichung, Taiwan, June 5-7, 2006, to be held in conjunction with The IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing (SUTC 2006).
- 4) IEEE International Symposium on Multimedia (ISM2006), San Diego, CA, December 11-13, 2006.
- 5) The Second IEEE International Workshop on Multimedia Information Processing and Retrieval (MIPR 2006), San Diego, California, USA, December 11-13, 2006.
- 6) IEEE Fourth International Symposium on Multimedia Software Engineering (MSE2002), December 11-13, 2002, Newport Beach, California, USA.
- 7) 14th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2002), November 4-6, 2002, Washington D.C., USA.
- 8) The International Symposium on Information Systems and Engineering (ISE 2002), July 14-18, San Diego, USA, 2002.
- 9) IEEE International Conference on Systems, Man, and Cybernetics, October 8-11, 2000, Nashville, Tennessee, USA.
- 10) 2nd International Conference on Information Reuse and Integration (IRI-2000), November 1 - 3, 2000, Honolulu, Hawaii, USA.

11) ISCA 12th International Conference on Computer Applications In Industry And Engineering (CAINE-99), November 4-6, 1999, Atlanta, Georgia, USA.

**(b) Refereeing of Papers or Manuscripts**

- IEEE Trans. on Knowledge and Data Engineering.
- IEEE Trans. on Multimedia.
- IEEE Transactions on Computers.
- IEEE Transactions on Circuits and Systems for Video Technology.
- IEEE Trans. on System, Man, and Cybernetics – Part A.
- IEEE Trans. on System, Man, and Cybernetics – Part B.
- IEEE Trans. on System, Man, and Cybernetics – Part C.
- IEEE Trans. on Neural Networks.
- IEEE Trans. on Services Computing.
- IEE Proc. Vision, Image & Signal Processing.
- ACM Transactions on Multimedia Computing, Communications and Applications (TOMM)
- ACM Trans. on Information Systems.
- ACM Trans. on Internet Technology.
- ACM Computing Surveys
- IEEE Spectrum.
- IEEE Internet Computing.
- IEEE Network.
- Multimedia Tools and Application Journal.
- World Wide Web Journal.
- Information Science Journal.
- Data & Knowledge Engineering Journal.
- Knowledge and Information Systems (KAIS): An International Journal.
- World Wide Web Journal.
- The International Journal of Distance Education Technologies.
- Journal of Intelligent and Fuzzy Systems.
- Decision Support Systems Journal.
- The International Journal of Image and Graphics.
- Journal of Communications and Networks.
- Journal of Systems and Software
- Information Processing Letters.
- International Journal of Image and Video Processing.
- Computers and Mathematics with Applications.
- IET Communications
- Neural Networks
- International Journal of Pattern Recognition and Artificial Intelligence
- International Journal of Wavelets, Multiresolution and Information Processing
- International Journal of Communications, Network and System Sciences
- CACAIE Computer-Aided Civil and Infrastructure Engineering

- Neurocomputing
- The Open Cybernetics and Systemics Journal
- Computer Communications
- ISPRS Journal of Photogrammetry and Remote Sensing, published by Elsevier.
- Image and Vision Computing.
- International Journal of Computer Applications in Technology
- Pattern Analysis and Applications Journal
- Cybernetics and Systems
- Journal of Biomedical and Health Informatics
- Journal of Systems Architecture
- Computer Vision and Image Understanding
- Etc.

## UNIVERSITY/COLLEGE/DEPARTMENT SERVICE

### (a) Service on Elected Committee

#### University:

- Faculty Senator (2018-2020)
- Dissertation Advisor Status Evaluation Committee (2011-2013)
- Accelerate Research, Innovation and Entrepreneurship committee (2015-present)

#### College:

- Faculty Council on Governance (FCG) – **Chair** (2016-2018)
- College Award Committee - SCIS Representatives (2015-2017)
- Faculty Council on Governance (FCG) – SCIS Representatives (2010-2012)
- College Research Advisory Committee (2009-2012)
- College Tenure & Promotion Committee (2006-2007)
- College Associate Dean Search Committee (2005-2006)
- MME Department Faculty Recruitment Committee (2005-2006)
- MME Department Faculty Recruitment Committee (2006-2007)

#### School:

- Human Resource Committee (2017-2018)
- Executive Committee (2017-2018)
- Faculty Recruitment Committee (2017-2018) – **Chair**
- Grant/Centers of Excellence Committee (2017-2018)
- Human Resource Committee (2016-2017) – **Chair**
- Executive Committee (2016-2017)
- Faculty Recruitment Committee (2016-2017)
- Grant/Centers of Excellence Committee (2016-2017)
- Human Resource Committee (2015-2016)
- Executive Committee (2015-2016)
- Annual Awards Committee (2015-2016)

- Faculty Recruitment Committee (2015-2016)
- Grant/Centers of Excellence Committee (2015-2016)
- Executive Committee (2014-2015)
- Brant/Center of Excellence (2014-2015)
- Faculty Recruitment Committee (2014-2015)
- Grant/Centers of Excellence Committee (2014-2015)
- Graduate Program Director (2011-2014)
- Annual Awards Committee (2013-2014)
- Grant/Centers of Excellence Committee (2013-2014)
- Grant/Centers of Excellence Committee (2012-2013)
- Human Resource Committee (2011-2012)
- Grant/Centers of Excellence Committee (2011-2012)
- Annual Awards Committee (2011-2012) – **Chair**
- Human Resource Committee (2010-2012) – **Chair**
- Annual Awards Committee (2011-2012) – **Chair**
- Director Search Committee (2010-2011)
- Director Search Committee (2009-2010)
- Graduate Program Review Committee (2009-2010)
- Graduate Committee (2009-2010)
- Human Resource Committee (2009-2010)
- Graduate Committee (2008-2009) – **Chair**
- Faculty Recruitment Committee (2007-2008) – **Chair**
- Graduate Committee (2007-2008)
- Human Resource Committee (2007-2008)
- Faculty Recruitment Committee (2006-2007) – **Chair**
- Graduate Committee (2006-2007)
- Faculty Recruitment Committee (2005-2006) – **Chair**
- Human Resource Committee (2004-2005)
- Faculty Recruitment Committee (2004-2005) – **Chair**
- Equipment Committee (1999-2000, 2000-2001).
- Graduate Committee (2001-2002, 2002-2003, 2003-2004).
- College Library Committee representative (2001-2002, 2002-2003)
- Recruitment Committee (2003-2004)

**(b) Ph.D. Qualifying Exam Activities**

- Fall 2019 - Ph.D. candidacy examination committees for two Ph.D. students.
- Spring 2019 - Ph.D. candidacy examination committees for one Ph.D. student.
- Fall 2018 - Ph.D. candidacy examination committees for one Ph.D. student.
- Spring 2017 - Ph.D. candidacy examination committees for one Ph.D. student.
- Spring 2016 - Ph.D. candidacy examination committees for one Ph.D. student.
- Fall 2015 - Ph.D. candidacy examination committees for two Ph.D. students.
- Spring 2014 - Ph.D. candidacy examination committees for two Ph.D. students.
- Fall 2013 - Ph.D. candidacy examination committees for one Ph.D. student.

- Fall 2012 - Ph.D. candidacy examination committees for one Ph.D. student.
- Spring 2012 - Ph.D. candidacy examination committees for one Ph.D. student.
- Fall 2011 - Ph.D. candidacy examination committees for five Ph.D. students.
- Spring 2011 - Ph.D. candidacy examination committees for two Ph.D. students.
- Fall 2010 - Ph.D. candidacy examination committees for two Ph.D. students.
- Spring 2010 - Ph.D. candidacy examination committees for two Ph.D. students.
- Fall 2009 - Ph.D. candidacy examination committees for two Ph.D. students.
- Spring 2009 - Ph.D. candidacy examination committees for one Ph.D. student.
- Fall 2008 - Ph.D. candidacy examination committees for two Ph.D. students.
- Spring 2008 - Ph.D. candidacy examination committees for one Ph.D. student.
- Fall 2007 - Ph.D. candidacy examination committees for two Ph.D. students.
- Spring 2007 - Ph.D. candidacy examination committees for two Ph.D. students.
- Fall 2006 - Ph.D. candidacy examination committees for four Ph.D. students.
- Spring 2006 - Ph.D. candidacy examination committees for one Ph.D. student.
- Fall 2005 - Ph.D. candidacy examination committees for one Ph.D. student.
- Spring 2005 - Ph.D. candidacy examination committees for two Ph.D. students.
- Spring 2004 - Ph.D. candidacy examination committees for two Ph.D. students.
- Spring 2000 – gave Ph.D. qualifying examination for:
  1. CEN6501 Distributed Computing
- Spring 2001 – gave Ph.D. qualifying examinations for:
  1. CEN6501 Distributed Computing
  2. CEN5120 Expert Systems
  3. CIS6931 Advanced Topics in Information Processing
  4. CEN6502 Advanced Topics on Concurrent and Distributed Systems
- Fall 2001 – gave Ph.D. qualifying examinations for:
  1. CEN6501 Distributed Computing
  2. CEN5120 Expert Systems
  3. CIS6931 Advanced Topics in Information Processing
  4. CEN6502 Advanced Topics on Concurrent and Distributed Systems
- Spring 2002 – gave Ph.D. qualifying examinations for:
  1. CEN6501 Distributed Computing
  2. CIS6931 Advanced Topics in Information Processing
  3. CEN6502 Advanced Topics on Concurrent and Distributed Systems
- Fall 2002 - gave Ph.D. qualifying examinations for:
  1. CEN6501 Distributed Computing
  2. CIS6931 Advanced Topics in Information Processing
- Spring 2003 - Ph.D. candidacy examination committees for five Ph.D. students.
- Fall 2003 - Ph.D. candidacy examination committees for six Ph.D. students.

## **COURSE TAUGHT at FIU**

- **CIS5027 Computer Systems Fundamentals:** Spring 2011, Fall 2011 (online), Spring 2012, Fall 2012, Spring 2013, Fall 2013 (online), Spring 2014, Fall 2014 (online), Spring 2015, Fall 2015 (online), Spring 2016, Spring 2017, Fall 2017, Spring 2018

- **COP5725 Principles of Database Management Systems:** Fall 2004, Fall 2015, Fall 2016
- **COP4710/COP4540 Database Management:** Spring 2004, Fall 2004, Fall 2005, Spring 2007, Spring 2008, Spring 2009, Fall 2009, Fall 2010, Spring 2011, Fall 2011, Spring 2012, Spring 2013, Spring 2015, Fall 2015 (online), Spring 2016, Fall 2016 (online), Spring 2017 (online), Fall 2017 (online), Spring 2018 (online), Fall 2020 (online), Spring 2021 (online), Fall 2021 (online)
- **CEN6501 Distributed Computing:** Fall 2006, Fall 2007
- **CEN5120 Expert Systems:** Spring 2004
- **CEN6502 Advanced Topics in Concurrent and Distributed Systems:** Spring 2006, Spring 2007
- **CGS1920 Introduction to Computing:** Fall 2009, Spring 2010, Fall 2014, Spring 2015, Fall 2015
- **CIS6931 Advanced Topics in Information Processing:** Spring 2003

## GRADUATE STUDENT SUPERVISION

- **Ph.D. Thesis Supervision Completed**
  1. Chengcui Zhang, Professor, University of Alabama at Birmingham, Department of Computer and Information Sciences (Ph.D., August 2004).
    - 1) Thesis title: A Multimedia Indexing and Retrieval Framework for Multimedia Database Systems
    - 2) The Best Graduate Student Research Award, School of Computer Science, Florida International University (2002)
    - 3) Presidential Fellowship, School of Computing and Information Sciences, Florida International University (2000-2003)
  2. Min Chen, Associate Professor, University of Washington Bothell, Computing and Software Systems, School of STEM [Tenured Associate Professor, University of Montana, Department of Computer Science (first job after graduation)] (Ph.D., May 2007).
    - 1) Thesis title: Knowledge Assisted Data Management and Retrieval in Multimedia Database Systems
    - 2) Outstanding PhD Graduate, College of Engineering and Computing, Florida International University (2007)
    - 3) Deans Award, College of Engineering and Computing, Florida International University (2007)
    - 4) The Outstanding Graduate GPA Award within the Field of Information and Technology, School of Computer Science, Florida International University (2003)
    - 5) The Best Graduate Student Research Award, School of Computer Science, Florida International University (2004)
    - 6) The Dissertation Year Fellowship, Florida International University (2007)
    - 7) Outstanding Academic Performance Award, School of Computing and Information Sciences, Florida International University (2006)



- 8) Presidential Fellowship, School of Computing and Information Sciences (2004-2006)
3. Jianhua Yan, Amazon [eBay Inc. (PayPal) (first job after graduation)] (Ph.D., December 2007)
  - 1) Thesis title: A Framework for Automatic Feature Extraction from Light Detection and Ranging (LIDAR) Data
4. Na Zhao, Quant Trader, Aien Captial [Assistant Vice President, State Street Corporation (first job after graduation)] (Ph.D., December 2007)
  - 1) Thesis title: DiMuse: An Integrated Framework for Distributed Multimedia System with Database Management and Security Support
  - 2) Presidential Fellowship, School of Computing and Information Sciences, Florida International University (2007)
  - 3) The Dissertation Year Fellowship, Florida International University (2007)
5. Kasturi Chatterjee, Software Engineer, Mobile Analytics, Groupon, Inc. [Software Engineer, LinkedIn, USA (first job after graduation)] (Ph.D., August 2010)
  - 1) Thesis title: A Generalized Multidimensional Index Structure for Multimedia Data to Support Content-Based Similarity Searches in a Collaborative Environment
  - 2) Best Paper Award, IEEE International Symposium on Multimedia (ISM2006), December 11-13, 2006, San Diego, CA, USA
  - 3) Strategic Initiative Teaching Award, College of Engineering and Computing, Florida International University (2007)
  - 4) Excellence Award, School of Computing & Information Sciences, FIU, 2007-2008
  - 5) 2008 Global CyberBridges Fellowship Award, NSF
  - 6) Deans Award, College of Engineering and Computing, Florida International University (2007)
  - 7) PIRE IBM Fellowship, 2008
  - 8) First Place in Poster Presentation, 6th LA Grid Summit, October 30-31, 2008
  - 9) The Dissertation Year Fellowship, Florida International University, 2009
6. Zheng Cui (December 2013), IT Administrator, International Hurricane Research Center, Florida International University (Co-advisor: Dr. Keqi Zhang)
  - 1) Thesis title: A Generalized Adaptive Mathematical Morphological Filter For LIDAR Data
7. Li Zheng (August 2014) (Co-Advisor: Dr. Tao Li)
  - 1) Thesis title: Towards Next Generation Vertical Search Engines
  - 2) The Best Graduate Student Research Award, School of Computing and Information Sciences, Florida International University (2011)

8. Fausto Fleites (August 2014), Global Director of Augmented Intelligence, NEORIS [Associate Director, Accenture; Senior Director of Data Science, Sears Holdings; President and CTO, GraphPath; Director of Data Science and Graph Computing (first job after graduation), and VP of Data Science (after 2015), Senzari, Inc.]
  - 1) Thesis title: A Scalable Multimedia Content Processing Framework with Application to TV Shopping
  - 2) Greater Miami Chamber of Commerce's 2010 Technology Leaders Award in the category "Top Technology Student."
  - 3) GAANN (Graduate Assistance in Areas of National Need) Fellowship, U.S. Department of Education
  - 4) The Outstanding Graduate Award for Undergraduate Study, FIU, 2009
  - 5) FIU Worlds Ahead Graduate, Summer 2014
  - 6) Outstanding Ph.D. Graduate Award, College of Engineering and Computing, FIU, 2014
  
9. Yimin Yang (December 2015), Senior Machine Learning Engineer, Facebook [Research Engineer, Graava, Inc. (first job after graduation)]
  - 1) Thesis title: Exploring Hidden Coherent Feature Groups and Temporal Semantics for Multimedia Big Data Analysis
  - 2) Overall Outstanding Graduate Student Award, School of Computing and Information Sciences, Florida International University (2015)
  
10. Hsin-Yu Ha (December 2015), Vice President, Modeling, Scoring, Analysis Officer (Validation), Citi Group [IT Associate Director, Florida Public Hurricane Loss Model, International Hurricane Research Center, Florida International University (first job after graduation)]
  - 1) Thesis title: Integrating Deep Learning with Correlation-based Multimedia Semantic Concept Detection
  - 2) People's Choice award, EPA P3 event (P3: People, Prosperity, and the Planet Student Design Competition for Sustainability), US Science and Engineering Festival (USA SEF)
  
11. Chunqiu Zeng (December 2016), Software Engineer, Google (Co-Advisor: Dr. Tao Li)
  - 1) Dissertation title: Large Scale Data Mining for IT Service Management
  - 2) Dissertation Year Fellowship at FIU (2016)
  - 3) The Best Graduate Student Research Award in the School of Computing and Information Sciences (SCIS) at FIU for Year 2013-2014
  
12. Wubai Zhou (December 2017), Software Engineer, Google [Software Engineer, Uber (first job after graduation)] (Co-Advisor: Dr. Tao Li)
  - 1) Dissertation Year Fellowship at FIU (2017)
  
13. Qing Wang (December 2018), Postdoctoral Researcher, IBM Watson Research Center (Co-Advisor: Dr. S.S. Iyengar)
  - 1) Dissertation title: Intelligent Data Mining Techniques for Automatic Service Management

- 2) Dissertation Year Fellowship at FIU (2018)
- 3) 2017 IEEE SCC Best Student Paper Award
- 14. Haiman Tian (Summer 2019), Senior Data Scientist, Lowe's
  - 1) Dissertation title: Multimodal Data Analytics and Fusion for Data Science
  - 2) 2018 Best Graduate Student Research Award, School of Computing and Information Sciences, FIU
  - 3) Dissertation Year Fellowship at FIU (2019)
- 15. Samira Pouyanfar (Summer 2019), Data Scientist II, COSINE Data & Intelligence team, Microsoft
  - 1) Dissertation title: Spatio-temporal Multimedia Big Data Analytics using Deep Neural Networks
  - 2) 2017 Overall Outstanding Graduate Student Award, School of Computing and Information Sciences, FIU
  - 3) Dissertation Year Fellowship at FIU (2019)
  - 4) FIU Worlds Ahead Graduate, Summer 2019
  - 5) Outstanding PhD Graduate, College of Engineering and Computing, Florida International University (2019)

- **Current Ph.D. Dissertation Advisor**

- 1. Maria Presa Reyes
  - 2018 GHC Student Scholarship
- 2. Tianyi Wang
- 3. Erik Enzo Coltey
  - GEM Fellowship

- **Current Undergraduate Students**

- 1. Daniel E. Martinez
- 2. Christian Moreyra
- 3. Daniela Alonso Sanchez
- 4. Christopher Jerauld
- 5. Isabel Montes de Oca

- **Visiting Scholars**

- 1. Hongjun Li, School of Information Science and Technology, Chengdu University of Technology, China (transferred from Dr. Tao Li) (December 2017 - December 2018)
- 2. Xiaoyun Zeng, School of Information and Statistics, Guangxi University of Finance and Economics (transferred from Dr. Tao Li) (November 2017 - November 2018)
- 3. Wen Chen, College of Computer Science, Sichuan University, China (transferred from Dr. Tao Li) (December 2017 - November 2018)
- 4. Lili Pan, School of Computer and Information Engineering, Central South University of Forestry and Technology, Changsha, China (January 2017 - January 2018)
- 5. Guanli Li, China East Jiaotong University, China (transferred from Dr. Tao Li) (March 2017 - Feb. 2018)

6. Hongbing Zhang, China East Jiaotong University, China (transferred from Dr. Tao Li) (March 2017 - Feb. 2018)
  7. Shulei Wu, Hainan Normal University, China (Feb. 2007- Feb. 2008)
- **Visiting Ph.D. Students**
    1. Shicheng Cui, Nanjing University of Science and Technology, China (transferred from Dr. Tao Li) (November 2017 - June 2019)
    2. Deqiang Li, Nanjing University of Science and Technology, China (transferred from Dr. Tao Li) (November 2017 - June 2019)
    3. Ming Wu, Nanjing University of Science and Technology, China (transferred from Dr. Tao Li) (November 2017 - November 2018)
  - **Previous Research Associates**
    1. Diana Machado
      - Summa Cum Laude Graduate, FIU, 2014
      - Outstanding Undergraduate Student Award, College of Engineering and Computing, FIU, 2014
    2. Raul Garcia
      - Summa Cum Laude Graduate, FIU, 2014
      - 2013 Outstanding Undergraduate Student Award, School of Computing and Information Sciences, FIU
  - **M.S. Thesis Supervision Completed**
    1. Xinran Wang, "A Design for a Distributed Digital Library System Providing Web-Based Spatial Data Access," M.S., August 2000.
    2. Qiong Chen, "A Flexible Multimedia Query and Presentation Interface for Multimedia Database Systems," M.S., May 2001.
    3. Xia Jin, "A Multimedia Database Server Design for Content-based Retrieval," M.S., May 2001.
    4. Zhang Cui, "Management, Retrieval, and Visualization of Spatial Data from Airborne Light Detection and Ranging System (LIDAR) Survey," M.S., August 2001.
    5. Xiaoming Chen, "Multimedia Presentation Authoring and Browsing in Multimedia Database Systems," M.S., May 2002.
    6. Liping Li, "Video Shot Detection and Indexing for Multimedia Database System," M.S., August 2002.
    7. Ling-Ling Luo, "A Flexible Multimedia Presentation Environment Using JMF and SMIL," M.S., August 2002.
    8. Irina Gray, "Real-Time Protocol Implementation For Optimal Resource Utilization In Multimedia Transmission," M.S., December 2002.
    9. Wenhui Liao, "Video Scene Detection and Content-Based Audio Classification," M.S., May 2003.
    10. Meiling Zhang, "Object-Relational Database Development and Performance Tuning for Hurricane Data," M.S., May 2003.
    11. Yi Xu, "Content-based Image Retrieval System Development Using Markov Model Mediator Mechanism," M.S., August 2003.

12. Murong Sun, "Distributed Algorithms and Land Type Specifications and Optimizations of Airborne Light Detection and Ranging (LIDAR) Data Filtering," M.S., August 2003.
13. Cassian Dcunha, "A molecular simulation study of the utility of methyl groups as probes of protein packing and flexibility and maintaining the computational environment for computational biomolecular research," M.S., December 2003..
14. Avinash Mittapalli, "Automatic Hurricane Damage Assessment System," M.S., December 2003.
15. Paresh Gupta, "An Interactive Animation System for Simulating the Hurricane Environment," M.S., April 2004.
16. Arpit Bhatnagar, "Internet Protocol (IP) Design and Implementation for Efficient Mobility to Devices in Wireless Networks," M.S., December 2004.
17. Kasun Wickramaratna, "Content-Based Video Retrieval Using Multimodal Analysis and Neural Network Learning," M.S., November 2005.
18. Dianelys Moreira, "County Recording Systems – An Affordable and Viable Solution," M.S., May 2006.

- **Selected Undergraduate Student Researchers Graduated:**

- 1) Jairo Pava, IBM (August 2011)
  - ❑ Greater Miami Chamber of Commerce's 2011 Technology Leaders Award in the category "Top Technology Student"
  - ❑ FIU Honors College Summa Cum Laude Award - a prestigious annual award given to a graduating student who embodies the ideals of the Honors College
  - ❑ CRA Outstanding Undergraduate Researcher Awards 2011 - Honorable Mention in the Computing Research (He was the only student in the State of Florida to receive an honorable mention in this furious competition joining the best students from top 10 CS departments in the country)
  - ❑ 2010 Outstanding Undergraduate Student Award, School of Computing and Information Sciences, FIU
  - ❑ 2011 SEAGEP Undergraduate Research Award, FIU
  - ❑ FIU Worlds Ahead Graduate, Fall 2011
- 2) Jesse Domack, State Farm (Spring 2013)
  - ❑ Greater Miami Chamber of Commerce's 2013 Technology Leaders Award in the category "Top Technology Student"
  - ❑ CRA Outstanding Undergraduate Researcher Awards 2013 - Honorable Mention in the Computing Research
  - ❑ Finalist, Greater Miami Chamber of Commerce's 2012 Technology Leaders Award in the category "Top Technology Student."
- 3) Diana Machado
  - ❑ Summa Cum Laude Graduate, FIU, 2014
  - ❑ Outstanding Undergraduate Student Award, College of Engineering and Computing, FIU, 2014

4) Raul Garcia

- Summa Cum Laude Graduate, FIU, 2014  
2013 Outstanding Undergraduate Student Award, School of Computing and Information Sciences, FIU

**COURSE, CURRICULUM DEVELOPMENT ACTIVITIE**

1. Undergraduate Computer Systems Area Coordinator, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2017-2018
2. COP5577: Principles of Data Mining (new course developed), 2003-2004
3. COP5990: Principles of Database Management Systems (new course developed), 2003-2004
4. CEN6501: Distributed Processing (significantly revised), 2003-2004
5. COP-6727: Advanced Database Systems (significantly revised), 2003-2004.
6. COP4540: ABET Course Coordinator, 2002-2003.