

# Dr. Longzhuang Li

Texas A&M University-Corpus Christi  
Science & Engineering, Computing Sciences

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## Education

PhD, University of Missouri-Columbia, 2002.

MS, Northwestern Polytechnic University, 1995.

BS, Northwestern Polytechnic University, 1992.

## Professional Memberships

IEEE

## TEACHING

### Teaching Experience

COSC 1435, INTRO TO PROB SOLV WITH COMP I  
COSC 1436, INTRO TO PROB SOLVING COMPII  
COSC 2437, DATA STRUCTURES  
COSC 3336, INTRO TO DATABASE SYSTEMS  
COSC 3346, OPERATING SYSTEMS  
COSC 3370, SOFTWARE ENGINEERING  
COSC 4360, THEORY OF PROGRAMMING LANGUAGE  
COSC 5321, DATA STRUCTURES  
COSC 5325, FOUND OF SOFTWARE ENGINEERING  
COSC 5331, FND OF COMP SYSTEM SOFTWARE  
COSC 5335, FOUNDATIONS OF DATABASES  
COSC 5336, DATABASE MANAGEMENT SYSTEMS  
COSC 5350, ADVANCED TOPICS IN DBMS  
COSC 5370, ADVANCED SOFTWARE ENGINEERING  
COSC 5396, DIRECTED INDEPENDENT STUDY  
COSC 5398, THESIS I  
COSC 5399, THESIS II  
COSC 5590, SELECTED TOPICS: INTRODUCTION TO DATA MINING  
COSC 5999, ADV RESEARCH IN COMPUTER SCI  
GSCS 6996, RESEARCH

## SCHOLARLY AND CREATIVE ACTIVITIES

### Publications

#### Refereed

#### Book Chapters

Liu, Y., Martin, R., Chen, L., Ren, X., Li, L. (2014). Rigid Registration. *Encyclopedia of Computer Vision* (pp. 681-691). Springer.

## Conference Proceedings

Tian, F., Wan, X., Lan, T., Qi, T., Zheng, Q., Chao, K.-M., Li, L. (2016). *Detecting the most suspicious groups in taxpayer interest interacted network* (pp. 6). IEEE International Conference on Systems, Man, and Cybernetics. [www.smc2016.org/](http://www.smc2016.org/)

Li, L., Boulware, D. (2015). *Higher-order tensor decomposition for large-scale data analysis* (pp. 4). 4th International Congress on Big Data.

Zheng, Y., Tian, F., Li, R., Li, L. (2012). *A fault diagnosis algorithm of artificial immune network model based on neighborhood rough set theory* (pp. 9). 4th International Conference on Data Mining and Intelligent Information Technology Applications.

Zheng, Y., Tian, F., Li, R., Li, L. (2012). *A Group Oriented Intelligent Tutoring System For Rocket Engineers and Researchers* (pp. 20-22). 12th IEEE International Conference on Advanced Learning Technologies.  
[ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6267009#](http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6267009#)

Tian, F., Liang, H., Li, L., Zheng, Q. (2012). *Sentiment classification on turn-level Chinese interactive texts of e-learning applications* (pp. 480- 484). 12th IEEE International Conference on Advanced Learning Technologies.  
[ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6267009#](http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6267009#)

Tian, F., Zhang, H., Li, L., Zheng, Q., Yang, Y. (2011). *Visualizing e-Learner Emotion, Topic, and Group Structure in Chinese Interactive Texts*. Athens, Georgia: 11th IEEE International Conference on Advanced Learning Technologies.

Gudala, A., Li, L., Kar, D. C., Mahdy, A. M., Ming, X. (2011). *A holistic schema matcher*. Wuhan: 2011 International Conference on Automation, Communication, Architecture and Material (ACAM 2011).

Li, L., Nalluri, A., Ai, L. (2011). *Space-aware data integration of ocean observing systems*. Macao: 2011 2nd International Conference on Innovative Computing and Communication and 2011 Asia-Pacific Conference on Information Technology and Ocean Engineering (CICC-ITOE).

Li, Y., Martin, R., Li, L., Wei, B. (2010). *Accurate overlapping area detection using histogram and multiple closest points*. Proceedings of the International Conference on Computer Vision and Graphics (ICCVG).

Liu, Y., Li, L., Xie, X. (2009). *Efficient range image registration using hierarchical segmentation and clustering*. The 8th IEEE International Symposium on Computational Intelligence in Robotics and Automation (CIRA2009).

Li, L., Nallela, S. (2009). *Probabilistic discovery of motifs in water level*. IEEE International Conference on Information Reuse and Integration.

Li, L., Liu, Y., Kothapally, S., Jin, C., Nalluri, A. (2009). *Data integration for the Gulf of Mexico satellite observations*. IEEE Fourth International Conference on Internet and Web Applications and Services (ICIW).

Simons, J., Li, L., Yuan, M., Shirley, T., Bailly, N. (2009). *Peer to peer data integration system for the Gulf of Mexico*. the workshop on Data Integration and Management on the Gulf of Mexico.

Li, L., Liu, Y., Fernandez, J. D. (2005). *Content-Rich Web Document Segmentation Based on HTML Tag Structures and Visual Cues* (pp. 9). International Conference on Computing, Communications and Control Technologies.

#### Journal Articles

Tian, F., Zhang, R., Lewandowski, J., Nguyen, N., Chao, K., Li, L., Dong, B. (2017). Deadlock-free migration for virtual machine consolidation using chicken swarm optimization algorithm. *Journal of Intelligent & Fuzzy Systems*, 32(2), 1389-1400.

Su, L., Huang, Y., Gibeaut, J., Li, L. (2016). A GPU approach for processing hyper-spatial images of UAS remote sensing. *Geoinformatica*, 20(4), 859-878.

Liu, Y., Zhao, Y., Li, L., Han, J. (2016). Point match refinement through rigidity constraint and vote. *Electronics Letters*, 52(15), 1304-1306.  
[ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=2220](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=2220)

Venumbaka, S., Li, L., Tian, F. (2014). An enhanced feature-based sentiment analysis system. *International Journal of Computers and Their Applications*, 21(4).

Tian, F., Liang, H., Li, L., Zhang, W., Qian, Y. (2014). Recognizing and regulating e-learners' emotion based on interactive Chinese texts in e-learning systems. *Knowledge-Based Systems*, 55, 148-164. [www.journals.elsevier.com/knowledge-based-systems/](http://www.journals.elsevier.com/knowledge-based-systems/)

Li, L., Zhang, Y., Wei, Y., Mao, S. (2012). Multi-Hop Qualitative Direction Estimation in Ad-Hoc Wireless Sensor Networks. *International Journal of Information Processing and Management*, 3(1), 1-16. [www.aicit.org/ijipm/home/index.html](http://www.aicit.org/ijipm/home/index.html)

Li, L., Guardiola, J. H., Liu, Y. (2011). Qualitative Spatial Representation and Reasoning for Data Integration of Ocean Observing Systems. *Computers, Environment and Urban Systems*, 35, 474-484.

Li, L., Mao, S. (2010). Integrate satellite observing images for the Gulf of Mexico. *International Journal on Image and Data Fusion*, 1(4), 359-374.

Zhou, H., Liu, Y., Li, L., Wei, B. (2009). A Clustering Approach to Free Form Surface Reconstruction from Multi-view Range Images. *Image and Vision Computing Journal*, 27(6), 725-747.

#### poster

Ramirez, A., Rahneemoonfar, M., King, S. A., Li, L. (2015). *Oil spill detection via hyperspectral images using MapReduce on NVIDIA GPU* (pp. 1). ASPRS 2015 Annual Conference Imaging & Geospatial Technology Forum (IGTF).

#### Non-Refereed

##### Conference Proceedings

West, W., Li, L. (2011). *A Framework for XML Schema Matching*. Texas A&M University-Corpus Christi Ninth Annual SURF Symposium.

Rivera, M., Li, L. (2011). *Data Management in Mobile Phones*. Texas A&M University-Corpus Christi Ninth Annual SURF Symposium.

Agrawal, R., Li, L. (2011). *Varied-grid Approach for Structure-free Data Aggregation for Wireless Sensor Networks*. Texas A&M University-Corpus Christi Ninth Annual SURF Symposium.

Mao, S., Li, L. (2011). *Top-K Answering of Data Integration under Uncertain Mappings*. The 5th Annual Graduate Scholarly Works Symposium.

Faucett, A., Li, L. (2011). *Top-K Queries in Wireless Sensor Networks*. Texas A&M System Louis Stokes Alliance for Minority Participation Symposium.

Xiao, M., Li, L. (2010). *A hybrid schema matcher: using natural language processing in conjunction with constraint matching*. Texas A&M University-Corpus Christi Eighth Annual SURF Symposium.

Burns, B., Edmundson, A., Li, L. (2010). *Database integration of heterogeneous sources in marine wireless sensor networks*. Texas A&M University-Corpus Christi Eighth Annual SURF Symposium.

Mao, S., Li, L. (2010). *Design and implementation of a data integration system for the Gulf of Mexico satellite observing systems*. the 4th TAMUCC Annual Graduate Scholar Works Symposium.

Nalluri, A., Li, L., Jin, C. (2009). *Mediator-based data integration system for the in situ ocean observations in the Gulf of Mexico*. in the workshop on Data Integration and Management on the Gulf of Mexico.

Jin, C., Li, L., Nalluri, A., Guo, H. (2009). *Peer to peer data integration system for the Gulf of Mexico*. the workshop on Data Integration and Management on the Gulf of Mexico.

Li, L., Liu, Y., Nalluri, A., Jin, C. (2009). *Qualitative spatial representation and reasoning for data integration of ocean observational systems*. The Joint International Conferences on Asia-Pacific Web Conference (APWeb) and Web-Age Information Management (WAIM).

## Presentations

Bouse, L. (Presenter), Alvarado, J. (Presenter), Li, L., "Construction of a data integration platform," Texas A&M University-Corpus Christi Tenth Annual SURF Symposium, Texas A&M University-Corpus Christi, Corpus Christi, TX. (August 4, 2012).

## Contracts, Grants and Sponsored Research

### Contract

Li, Longzhuang (Principal), "Develop an electronic medical records system," Sponsored by Wayne Fagan, MD, Private, \$1,683.00. (May 13, 2010 - June 12, 2010).

### Grant

Bird, Christopher (Co-Principal), Li, Longzhuang (Principal), Xie, Feiqin (Co-Principal), "ChrisNOTE\*\*(dup??)MRI: Acquisition of a High Performance Computing Cluster...", Sponsored by NSF, Federal, \$400,000.00. (2014 - 2017).

Rahnemoonfar, Maryam (Co-Principal), Li, Longzhuang (Principal), "Acquisition of a High Performance Computing Cluster to Support Multidisciplinary Big Data Analysis and Modeling," Sponsored by NSF-MRI, Federal, \$400,000.00. (September 2014 - August 2017).

Li, Longzhuang (Principal), Bird, Christopher (Co-Principal), Chen, Ruizhi (Co-Principal), Su, Lihong (Co-Principal), Xie, Feiqin (Co-Principal), "MRI: Acquisition of a High Performance Computing Cluster to Support Multidisciplinary Big Data Analysis and Modeling," Sponsored by National Science Foundation, Federal, \$399,038.00. (September 1, 2014 - August 31, 2017).

Li, Longzhuang (Principal), "High-Order Tensor Decomposition for Large-Scale Data Analysis in the Cloud Computing Environment," Federal, \$9,992.00. (October 1, 2013 - October 31, 2013).

Li, Longzhuang (Principal), "Tensor Decomposition for Large-Scale Social Network Analysis," Sponsored by Air force Summer Faculty Fellowship Program, Federal, \$15,000.00. (June 3, 2013 - August 9, 2013).

Kar, Dulal C (Principal), Mahdy, Ahmed Mahmoud (Co-Principal), Li, Longzhuang (Co-Principal), "REU: Applied Computing Research in Wireless Sensing of Marine Data," Sponsored by NSF, Federal, \$269,293.00. (June 1, 2010 - May 31, 2013).

Fernandez, John D, Garcia, Mario A, Kar, Dulal C, King, Scott Alan, Li, Longzhuang, Mahdy, Ahmed Mahmoud, Katangur, Ajay Kumar, "CRI: IAD – Computing Infrastructure for Research-Based Learning (CIRBL)," Sponsored by NSF, Federal, \$650,000.00. (August 10, 2007 - August 31, 2011).

Shirley, Thomas, Li, Longzhuang, "CRI: Planning a massive and heterogeneous data repository for computing research on the Gulf of Mexico," Sponsored by National Science Foundation, \$49,997.00. (2007 - 2009).

Scherger, Michael, Li, Longzhuang, "Computing Systems and Machine Intelligence," Sponsored by Texas A&M University - Corpus Christi - HEF, Texas A&M University-Corpus Christi, \$65,000.00. (January 2008 - December 2008).

## **SERVICE**

### **Department**

Committee Chair, Tenure-track faculty search committee. (September 2016 - Present).  
Committee Member, Professional Assistant Professor Search Committee. (March 2016 - Present).  
Committee Chair, Department Curriculum Committee. (October 2015 - Present).  
Committee Member, Promotion & Tenure Committee. (August 2008 - Present).  
Committee Member, Graduate Studies Committee. (January 2008 - Present).  
Committee Member, Undergraduate Studies Committee. (January 2008 - Present).  
Committee Member, Introduce Sequence Committee. (January 2016 - May 2016).  
Committee Member, CS Program Coordinator Nomination Committee. (February 2013 - March 2013).  
Graduate studies open house. (March 2011).

### **College**

Committee Member, College Steering Committee. (October 2015 - Present).  
Committee Member, College Curriculum Committee. (May 2013 - October 2014).

## University

Committee Member, University Bioinformatics Committee. (November 2014 - Present).  
Substitute for one committee member, Dr. Dulal Kar, Council of Principal Investigators and Research Administrators. (February 2016 - August 2016).  
Committee Member, University Scholarship Committee. (September 2010 - May 2014).  
Committee Member, Academic Affair Committee. (September 2010 - September 2012).  
Committee Member, Academic Standards Grievance Committee. (September 2010 - September 2012).  
Committee Member, Faculty Senate. (April 2010 - September 2012).

## Professional

Reviewer, Journal Article, Internet Journal of Distance Education Technologies.  
Committee Member, International Conference on Internet and Web Applications and Services (ICIW 2012). (September 2011 - Present).  
Research Scientist, Conrad Blucher Institute for Surveying and Science. (May 2010 - Present).  
Member, International Institute of Informatics and Systemics. (September 2009 - Present).  
Editorial Review Board Member, International Journal of Distance Education Technologies. (September 2011 - August 2016).  
Attendee, Meeting, TEES Annual Research Conference. (June 2016).  
Reviewer, Grant Proposal, National Science Foundation CRI program. (April 2016).  
Committee Member, International Conference on Knowledge Generation, Communication and Management (KGCM 2011). (November 2010 - November 2015).  
Reviewer, Conference Paper, 5th International Multi-Conference on Engineering and Technological Innovation. (July 2012).  
Committee Member, International Symposium on Interdisciplinary Research, Education, and Communication. (March 2012).  
Reviewer, Journal Article, International Journal of Image and Data Fusion. (February 2012).  
Reviewer, Conference Paper, 3rd International Symposium on Peer Reviewing: ISPR 2011. (July 2011).  
Reviewer, Conference Paper, 9th International Conference on Education and Information Systems, Technologies and Applications: EISTA 2011. (July 2011).  
Committee Member, the First International Conference on Advances in Information Mining and Management (IMMM 2011). (January 2011 - July 2011).  
Committee Member, the First International Conference on Advances in Information Mining and Management (IMMM 2011). (November 2010 - July 2011).  
Reviewer, Conference Paper, 5th International Conference on Knowledge Generation, Communication and Management: KGCM 2011. (March 2011).  
Reviewer, Conference Paper, The second International Conference on Engineering and Meta-Engineering: ICEME 2011. (March 2011).  
Committee Member, the Sixth International Conference on Internet and Web Applications and Services (ICIW 2011). (September 2010 - March 2011).  
Attendee, Meeting, NSF PI Meeting. (March 2011).  
Reviewer, Conference Paper, The Sixth International Conference on Internet and Web Applications and Services (ICIW 2011). (November 2010).  
Attendee, Meeting, ACM SIGSOFT The Foundation of Software Engineering (FSE). (November 2010).  
Attendee, Meeting, The Software Engineering Educators Symposium (SEES). (November 2010).  
Attendee, Meeting, SBIR/STTR Workshop. (September 2010).  
Reviewer, Conference Paper, The 2nd International Symposium on Peer Reviewing (ISPR 2010). (September 2010).  
Reviewer, Conference Paper, The 5th International Conference on Knowledge Generation, Communication and Management (KGCM 2011). (September 2010).  
Attendee, Meeting, Coastal Bend Workshop on Streaming Environmental Data. (August 2010).

Committee Member, the 2nd International Multi-Conference on Engineering and Technological Innovation (IMETI 2010). (November 2009 - July 2010).

Committee Member, the 2nd International Symposium on Peer Reviewing (ISPR 2010). (November 2009 - July 2010).

Committee Member, the 4th International Conference on Knowledge Generation, Communication and Management (KGCM 2010). (November 2009 - July 2010).

Committee Member, the Fifth International Conference on Internet and Web Applications and Services (ICIW 2010). (September 2009 - May 2010).

Judge, the Fourth TAMUCC Annual Graduate Student Scholarly Works Symposium. (April 2010).

Reviewer, Conference Paper, The International Conference on Engineering and Meta-Engineering (ICEME 2010). (February 2010).

## **Public**

Judge, 2015 Coastal Bend Regional Science Fair. (February 2015).