SCOPES

Big Data has provided organizations with terabytes of data and these high volumes of data present a challenge to the cloud environment. Cloud is a pathway to innovation and makes it easier and more cost-effective to leverage big data mining technologies. The cloud helps organizations leverage a variety of tools for processing, analyzing, and managing high-volume, diverse data sets without the time or capital investment required for an on-premises deployment.

Strong security practices to be followed in implementing big data mining platform at cloud and the skills to properly use the available services and to have a thorough understanding of their shared responsibility model to be focused and dealt with severity.

This special issue focuses on novel and unpublished research papers that present an intelligent solution to implement an effective cloud enable big data mining infrastructure and overcome the challenges associated with it.

Subtopics:

- Cloud enabled big data mining techniques.
- Cloud based centralized data control solutions.
- Methods to enable cloud based secured data transmission.
- Cloud enabled big data analytics.
- Cloud based big data management.
- Smart data storage and analysis in clouds.
- Data-driven service automation techniques.
- Cloud based security and privacy issues.
- Cloud computing and big data mining models.
• Cyber threats to cloud based big data mining.
• Deep learning algorithms for big data analytics.
• Computing and data management in clouds.
• Cloud based network optimizations.

**Important Dates**

Manuscript submission deadline: 20\textsuperscript{th} August 2020

Notification of Acceptance/Rejection/Revision: 20\textsuperscript{th} September

2020 Final Manuscript Due: 20\textsuperscript{th} October 2020

Tentative Publication Date: November 2020

**Number of papers**

The thematic issue will select 10~12 high quality manuscripts to be published.

Advisory committee members:

- Dr. Omar Smail, Computer Science Department, University of Mascara, Algeria.
- Dr. S. Saravanan, Mahindra Research Valley, India.
- Dr. Joseph Tan, Professor in eHealth Informatics & eBusiness Innovations, McMaster University, Canada.
- Dr. Chia-Wen Tsai, Ming Chuan University, Taiwan.
- Dr. Jaime Lloret Mauri, Department of Communications, Universidad Politecnica de Valencia, Spain.
- Anabela Mesquita, Polytechnic of Porto, ISCAP, Portugal.
- Prof. Dr. Ali M. Eltamaly, King Saud University, Saudi Arabia.
- Dr. KyungHi Chang, INHA University, Korea.
- Dr. Michel Plaisent, University of Quebec in Montreal, Canada.
- Dr. A. Khaled A Kamel, Texas Southern University, USA.
- Mr. Reijo Savola, VTT Research Centre, Finland.
- Dr. Tugrul Yanik, Celal Bayar University, Turkey.
Dr. Robert Bestak, Czech Technical University in Prague, Czech Republic.
Dr. Abhijit Ghosh, Lincoln University College, Malaysia.

Guest Editors

1. **Dr. P. Karrupusamy**, Professor, Surya Engineering College, Electrical and Electronics Engineering, Mettukadai, Erode 638107, India. pkarrupusamyphd@gmail.com

2. **Dr Joy Chen**, Professor, Da-Yeh University, Electrical Engineering, No.168, University Road, Dacun, Changhua, 51591, Taiwan. jchen@mail.dye.edu.tw

3. **Dr. Yong Shi**, Associate/Tenured Professor of Computer Science, Director/Coordinator of the Master of Computer Science, Kennesaw State University, USA. yshi5@kennesaw.edu
Managing Guest Editor: Dr. P. Karrupusamy

PUBLICATION DETAILS:


CONFERENCE CHAIR

2. Second IEEE ICCMC (INTERNATIONAL CONFERENCE ON COMPUTING METHODOLOGIES AND COMMUNICATION (ICCMC 2018) is being organized on 15-16, February 2018 by The Surya Engineering College (SEC), Erode, India at Erode - Perundurai Highway, Kathirampatti, Mettukadai, Erode,Tamil Nadu 638107.
Dr. Joy Iong-Zong Chen is currently a full professor of Department of Electrical Engineering Dayeh University at Changhua Taiwan. Prior to joining the Dayeh University, he worked at the Control Data Company (Taiwan) as a technical manager since Sep. 1985 to Sep. 1996. His research interests include wireless communications, spread spectrum technical, OFDM systems, and wireless sensor networks. He has published a large number of SCI Journal papers in the issues addressed physical layer for wireless communication systems. Moreover, he also majors in developing some applications of the IOT (Internet of Thing) techniques and Dr. Joy I.-Z. Chen owned some patents authorized by the Taiwan Intellectual Property Office (TIPO).

Yong Shi, Ph.D.
Associate Professor, Tenured

PUBLICATIONS

Referred Journal Articles:


• Yong Shi, Yuqing Song and Aidong Zhang. A Shrinking-Based Clustering Approach for Multi-Dimensional Data. IEEE Transactions on Knowledge and Data Engineering (TKDE), Volume 17, pp. 1389-1403, 2005.

Referred Conference Papers:

• Yong Shi, Ariaaldis Japa, "Multi-dimensional Analysis on Data Sets for Information Retrieval ". International Conference on Intelligent Sustainable Systems (ICISS 2017). December 7-8, 2017, Tirupur District, Tamil Nadu, India


• Tianda Yang, Kai Qian, Dan Lo, Ying Xie, Yong Shi, and Lixin Tao, "Improve the Prediction Accuracy of Naive Bayes Classifier with Association Rule Mining", IEEE BigDataSecurity 2016: The 2nd IEEE International Conference on Big Data Security on Cloud, Clolumnia University, New York, USA, April 8-10, 2016.


• Boyu Hou, Kai Qian, Lei Li, Yong Shi, Lixin Tao, Jiang Liu, "MongoDB NoSQL Injection Security Threat Analysis and Detection", accepted and will be in the proceeding of IEEE C5Cloud 2016:


• Yong Shi, Swathi Ganji. An Approach to Improving Nearest Neighbor Search. 28th International Conference on Computer Applications in Industry and Engineering, October 12-14, 2015, San Diego, California, USA

• Yong Shi, Swathi Ganji. An Algorithm for Selecting Meaningful Dimensions. International Conference on Software Engineering and Data Engineering, 24th International Conference on Software Engineering and Data Engineering, October 12-14, 2015, San Diego, California, USA
• Yong Shi and Sunpil Kim. An Approach for Analyzing Data Similarity. The 30th International Conference on Computers and Their Applications, March 9-11, 2015, Honolulu, Hawaii, USA
• Yong Shi and Sunpil Kim. An Attempt to Find Information for Multi-dimensional Data Sets. The 12th International Conference on Information Technology, April 13-15, 2015, Las Vegas, NV, USA
• Yong Shi and Sunpil Kim. Towards Analyzing Multi-Dimensional Data Sets for Knowledge Discovery. International Conference on Software Engineering and Data Engineering, October 13-15, 2014, New Orleans, Louisiana, USA
• Yong Shi, Derek Seitzman. Towards Clustering and Outlier Detection on Multi-dimensional Dynamic Data Sets. 26th International Conference on Computer Applications in Industry and Engineering. September 25-27, 2013, Los Angeles, California, USA.
• Yong Shi, Brian Graham. Similarity Search Problem Research on Multi-dimensional Data Sets. 10th International Conference on Information Technology : New Generation, 2013 (pp. 573-577), April 15-17, 2013, Las Vegas, Nevada, USA
• Yong Shi, Brian Graham. Processing Multi-dimensional Data Based on Dimension Analysis. 28th International Conference on Computers and Their Applications. March 4-6, 2013, Honolulu, Hawaii, USA
• Yong Shi, Marcus Judd. Finding Nearest Neighbors for Multi-Dimensional Data. The Fifth International Conference on Advances in Databases, Knowledge, and Data Applications (DBKDA 2013). January 27 - February 1, 2013, Seville, Spain
• Yong Shi and Brian Graham. Towards Processing Multi-Dimensional Dynamic Data. The 8th International Conference on Data Mining (DMIN’12), Las Vegas, Neveda, USA July 16-19, 2012
• Yong Shi and Jerry Meisner. An Approach to Selecting Proper Dimensions for Noisy Data. The 7th International Conference on Data Mining (DMIN’11), Las Vegas, Neveda, USA July 18-21, 2011.
• Yong Shi and Tyler Kling. Improving the Ability of Mining for Multi-dimensional Data. Future Generation Information Technology (FGIT 2010), International Convention Center Jeju, Jeju Island, Korea, December 13-15, 2010.
• Yong Shi and Ryan Rosenblum. An Attempt to Find Neighbors. International Conference on Cyber- Enabled Distributed Computing and Knowledge Discovery (IEEE CyberC 2010), Huangshan, China, October 10-12, 2010
• Yong Shi. Finding Nearest Neighbors in the Presence of Obstacles. International Conference on Convergence and Hybrid Information Technology (ICHIT 2010). Daejeon, South Korea, August 26-28, 2010
• Yong Shi and Ali Tavakoli. A Dimension-wise Algorithm for Multi-dimensional Data. The 6th International Conference on Data Mining (DMIN’10), Las Vegas, Neveda, USA July 12-15, 2010
- Yong Shi. Constraint Based Data Analysis for Multi-dimensional Data. 2010 International Conference on Artificial Intelligence and Pattern Recognition (AIPR-10), Orlando, FL, USA, July 12-14, 2010
- Yong Shi. Inter-Dimensional Fuzzy Clustering. ACMSE 2010: The 48th ACM Southeast Conference, Oxford, Mississippi, USA, Apr 15 - 17, 2010
- Yong Shi. A Simple Game Programming in Entry-level C# Courses. The 1st Annual Digital Gaming International Conference (DGIC09), Kennesaw, GA, USA, Nov 20-21, 2009
- Yong Shi. A Fuzzy Index Structure for Multi-Dimensional Data. The 5th international Conference on Data Mining (DMIN09), Las Vegas, Neveda, USA July 13-16, 2009
- Yong Shi. Towards Iteratively Analyzing the Distribution of Multi-Dimensional Data, The 4th international Conference on Data Mining (DMIN08), Las Vegas, July, 2008
- Yong Shi. Towards Solving Dimension Reduction Problems for Multi-Dimensional Data, The 4th international Conference on Data Mining (DMIN08), Las Vegas, July, 2008
- Yong Shi, Li Zhang. PanKNN: A Dimension-wise Approach to Similarity Search Problems, the 4th International Conference on Data Mining (DMIN08), Las Vegas, July, 2008
- Yong Shi. Detecting Clusters and Outliers for Multi-Dimensional Data. The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008), Busan, Korea, April, 2008
- Yong Shi and Aidong Zhang. Towards Exploring Interactive Relationship Between Clusters and Outliers in Multi-dimensional Data Analysis, the 21st International Conference on Data Engineering (ICDE 2005), Tokyo, Japan April 2005
- Yong Shi and Aidong Zhang. A Shrinking-Based Dimension Reduction Approach for Multi-Dimensional Data Analysis, the 16th International Conference on Scientific and Statistical Database Management, Santorini Island, Greece, June 2004
- Yong Shi and Aidong Zhang. Dynamic Clustering and Indexing of Multi-Dimensional Datasets, the 4th International Conference on Information Fusion, Montreal, Canada, August 2001
- Yong Shi and Zhenxi Zhao. Design and Implementation of a FORTH Interpreter, MINI-MICRO SYSTEMS, 1999, China
GRANTS

- CS Department Mini-Grant Award. Kennesaw State University, Summer 2014
- Summer Faculty Research Grant. Kennesaw State University, Summer 2011
- Summer Research Grant, College of Science and Mathematics, summer, 2007
- Summer Research Grant, College of Science and Mathematics, summer, 2006
- Shi, Y., Sponsored Research, "AWS Educate application", Amazon, Private, Approved (March 1, 2016 - March 30, 2016).