

## Welcome message from the Editor-in-Chief and Co-Editor-in-Chief

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Welcome to this issue of the new research journal! Congratulations to the authors for their publications at the EAI Endorsed Transactions on Scalable Information Systems. The Transaction is started to be indexed by both DOAJ and DBLP (<https://doaj.org/toc/2032-9407> and <http://dblp.uni-trier.de/db/journals/sis/> respectively).

EAI Endorsed Transactions on Scalable Information Systems is a new open access scholarly archival journal that is committed to the timely publication of high-quality original research papers on all aspects of scalable communications theories, technologies, systems, and applications. Original contributions that have not been published and are not currently under consideration by any other journal are solicited. All submissions will go through a

rigorous peer-review process, and will be reviewed and evaluated by expert referees and the editorial board. Areas of interests include, but are not limited to:

- Scalable distributed information systems
- Scalable grid information systems
- Parallel information processing and systems
- Web information searching and retrieval
- Data mining
- Content delivery networks (CDN)
- VLDB
- P2P systems
- Scalable mobile and wireless database systems
- Large scale sensor network systems
- Index compression methods
- Architectures for scalability
- Scalable information system applications

- Evaluation metrics for scalability
- Information security

This issue includes a collection of five outstanding papers that are contributed by leading researchers and cover a diversity of topics in the area of scalable information systems. We hope that you will find the papers timely, informative, and enjoyable.

*The papers are:*

1. *An Unsupervised Approach of Knowledge Discovery from Big Data in Social Network*
2. *Software Defined Network-based Scalable Resource Discovery for Internet of Things*
3. *A Comparative Analysis of Feature Extraction Methods for Classifying Colon Cancer Microarray Data*
4. *Intricacies of Unstructured Data*
5. *Software-Defined Network Testbed Using ZodiacFX a Hardware Switch for OpenFlow*

While the first paper analyses social network [1] which is a common source of big data [2]. The effectiveness co-clustering is explored in the first paper to create meaningful summary of social network data such as Twitter.

Experimental results show that, using co-clustering for creating summary provides significant benefit over the existing techniques. In the second paper, SDN-sensed contextual information of different components are combined together to facilitate scalable resource discovery in Internet of Things (IOT)[3, 4]. The proposed policy targets balanced processing and congestion-less forwarding of IoT-data. Through simulation studies, it has been demonstrated that the SDN-based resource discovery in IoT outperforms the traditional networking based approaches in terms of resource discovery time and Quality of Service satisfaction rate.

In third paper, a comparative study to demonstrate the effectiveness of feature extraction as a dimensionality reduction process is proposed, and concludes by investigating the most efficient approach that can be used to enhance classification of microarray [5, 6]. Principal Component Analysis (PCA) as an unsupervised technique and Partial Least Square (PLS) as a supervised technique are considered, Support Vector Machine (SVM) classifier were applied on the dataset.

The fourth paper is an attempt to explore unstructured data that has taken the world of data science by storm [7]. Handling the unprecedented growth of unstructured data is a big challenge faced by most data scientists [8]. This paper discusses about the types and sources of unstructured data and effective ways of processing and analysing this data.

The last paper develop an SDN testbed using Zodiac FX a hardware switch for OpenFlow experiment. This is a practical work with contribution of providing the configuration of Ryu controller, the configuration of Zodiac FX switch and developing a simple SDN testbed for OpenFlow.

We would like to take this opportunity to acknowledge all the authors who contributed to this inaugural issue of the journal. We are grateful to all anonymous reviewers for their time and effort in reviewing the papers and providing us and the authors valuable review comments, and thankful to all editorial board members for their strong support in founding this new journal. We are also thankful to all EAI publication staff, for their great efforts and assistance in producing and launching this inaugural issue of the journal.

Finally, we cordially welcome all readers and fellow researchers to submit your

papers and contribute your work to this journal. We are also keen to hear your constructive ideas and suggestions for helping the growth of this new born but promising research journal.

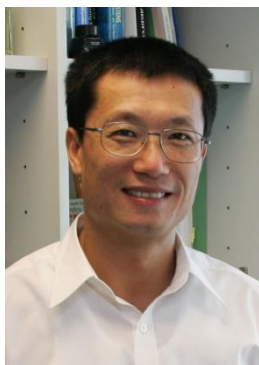
Thank you all. We look forward to your contributions.

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#### About the Editor-in-Chief



**Xiaohua Jia** received his BSc (1984) and MEng (1987) from University of Science and Technology of China, and DSc (1991) in Information Science from University of Tokyo. He is currently Chair Professor with

Dept of Computer Science at City University of Hong Kong. His research interests include cloud computing and distributed systems, computer networks, wireless sensor networks and mobile wireless networks. Prof. Jia is an editor of IEEE Trans. on Parallel and Distributed Systems (2006-2009), Wireless Networks, Journal of World Wide Web, Journal of Combinatorial Optimization, etc. He is the General Chair of ACM MobiHoc 2008, TPC Co-Chair of IEEE MASS 2009, Area-Chair of IEEE INFOCOM 2010, TPC Co-Chair of IEEE GlobeCom 2010 – Ad Hoc and Sensor Networking Symp, and Panel Co-Chair of IEEE INFOCOM 2011.

## About the Co-Editor-in-Chief



**Hua Wang** is a full time Professor at Victoria University, Australia. Dr Wang

awarded a PhD degree in Computer Science from the University of Southern Queensland in 2004. He has been active in the areas of Information Systems Management, Distributed Database Management Systems, Access Control, Software Engineering and Electronic Commerce. He has participated in research projects on mobile electronic system, Web service, and role-based access control for Electronic service system, and has already published over 200 research papers.