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

Xiaohua Jia

Director of Mobile Ad Hoc and Sensor Network Lab, Department of Computer Science, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong SAR

Hua Wang

Deputy Director of Centre for Applied Informatics, College of Engineering and Science, Victoria University, Ballarat Road, Footscray, Melbourne, Australia

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. Qos-Based Web Service Discovery And Selection Using Machine Learning

2. A Narrative Literature Review and E-Commerce Website Research

3. Extracting Actionable Knowledge from Domestic Violence Discourses on Social Media

4. A Big-Data based and process-oriented decision support system for traffic management

5. Auto recalls and software quality in the automotive sector

In the first paper, authors present we propose a novel architecture for the web service discovery and selection. The core component is a machine learning based methodology to predict the QoS properties using source code metrics [1, 2, 3]. The credibility value and previous usage count are used to determine the reputation of the service. The contributions of this research are:
• A novel architecture to improve the discovery and selection of the WS.
• Machine learning based technique to predict Quality of Service (QoS) from source code metrics.
• The reputation estimation method using credibility of WS provider and usage history of WS.

In the second paper, authors show that there are correlations between e-commerce, culture, and website design. The result of

the study indicates that cultural aspects influence e-commerce website design. This study aims to deliver a reference source for information systems and information technology researchers interested in culture and e-commerce website design, and will show less focused research areas in addition to future directions [4, 5]. This study focuses on the correlation between ecommerce, culture, and website design, and the article begins with a literature review mostly related to these areas.

The third paper proposes a novel framework to model and discover the various themes related to Domestic Violence (DV) from the public domain. The proposed framework would possibly provide unprecedentedly valuable information to the public health researchers, national family health organizations, government and public with data enrichment and consolidation to improve the social welfare of the community. Thus provides actionable knowledge by monitoring and analysing continuous and rich user generated content. The contribution of this paper is to take the plethora of information from the information explosion era of social media on a daily basis and gain in-depth insights of knowledge discovery [6].

The fourth paper explores data analysis and monitoring of road networks in terms of reliability and performance are valuable but hard to achieve, especially when the analytical information has to be available to decision makers on time. The gathering and analysis of the observable facts can be used to infer knowledge about traffic congestion over time and gain insights into the roads safety. However, the continuous monitoring of live traffic information produces a vast amount of data that makes it difficult for business intelligence (BI) tools to generate metrics and key performance indicators (KPI) in nearly real-time. In order to overcome these limitations, this paper proposes the

application of a big-data based and process-centric approach that integrates with operational traffic information systems to give insights into the road network's efficiency [7, 8].

The last paper analyses software for automobiles that is one from innovative factors in the automotive industry [9]. Automobile is represented as an amount of embedded systems (embedded systems) and it is a very complex computing system. It is currently estimated that the average car has built-in software in the range of 100 million lines and in 2020 is already expected 300 million lines of code. The contribution is devoted to the management of safety and reliability of the software development for embedded systems designed for electromechanical (mechatronic) systems through quality assurance of embedded software. The contribution defines the term software quality assurance strategy, explains the role of standards such as ISO 26262 (Road vehicles - Functional safety), ISO 15504 (Automotive SPICE 3.0).

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.

References

1. M. Li, et al. Privacy-aware access control with trust management in web service. World Wide Web 14 (4), 407-430, 2011.
2. J. Huang, et al. A probabilistic method for emerging topic tracking in microblog stream. World Wide Web 20 (2), 325-350, 2017.
3. M. Peng, et al. Parallelization of Massive Textstream Compression Based on Compressed Sensing. ACM Transactions on Information Systems, 36 (2), 17. 2017.
4. H. Wang, et al. A flexible payment scheme and its role-based access control. IEEE Transactions on knowledge and Data Engineering 17 (3), 425-436, 2005.
5. Sun, et al. Injecting purpose and trust into data anonymization. Computers & security 30 (5), 332-345, 2011.
6. G. Wang et al. A self-stabilizing algorithm for finding a minimal positive influence dominating set in social networks. Proceedings of the 24th Australasian Database Conference, 93-99, 2013.
7. H. Wang, Z. Zhang, T. Taleb. Special Issue on Security and Privacy of IoT. World Wide Web, 1-6. 2017.
8. Y. Shen, et al. MicroThings: A Generic IoT Architecture for Flexible Data Aggregation and Scalable Service Cooperation. IEEE Communications Magazine 55 (9), 86-93, 2017.
9. M.E. Kabir, H. Wang, E. Bertino, Efficient systematic clustering method for k-anonymization. Acta Informatica 48 (1), 51-66, 2011.

About the Editor-in-Chief
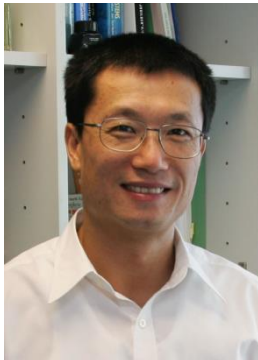
Xiaohua Jia received his BSc (1984) and MEng (1987) from University of Science and Technology of China, and DSc (1991) in Information Science from University of Tokyo. He is currently Chair Professor with Dept of Computer Science at City University of Hong Kong. His research interests include cloud computing 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.