

World Wide Web journal

~Special Issue Call for Papers~

“Special Issue on Smart Computing and Cyber Technology for Cyberization”

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The *World Wide Web* Journal invites submissions for a special issue on “Smart Computing and Cyber Technology for Cyberization.”

SCOPE:

Following the well-known concepts of computerization and informatization, an emerging era of cyberization, which is considered as a reformation of the present physical, social and mental worlds, has become a hotly discussed trend in the new cyber world. During the cyberization process, a large number of real things will conjugatively map to various kinds and levels of cyber existence in cyber world. It is said that cyberization has already taken place in a variety of fields along with the development of several emerging computing paradigms and information communication technologies, such as ubiquitous/pervasive computing, social computing and networking, and wearable technologies, etc. Specifically, with the rapid growth of Internet of Things and cognitive cyber-physical systems, more and more digital things or cyber entities, are engaged or generated in the integrated cyber world. Emerging technologies in smart environments, such as smart computing and smart objects, become very significant, promising, and enabling issues in cyberization, to enhance the efficiency of sensing, processing, and communication in the conjugations of physical, social and mental worlds. Accordingly, the cyber technology is playing an important role in developing effective methods of resource management, data acquisition, and pattern recognition across cyber-related systems and applications. All these provide us opportunities to explore smart computing methodologies and computational intelligence algorithms, in order to facilitate the cyberization process in cyber world.

This special issue on Smart Computing and Cyber Technology for Cyberization aims at bringing together researchers and engineers from both academia and industry to present physical concepts, calculation methods, application possibilities, and new opportunities with respect to the development of cyber-related information and communication technologies. In particular, this special issue will have a great significance and profound impact on: i) providing various opportunities in

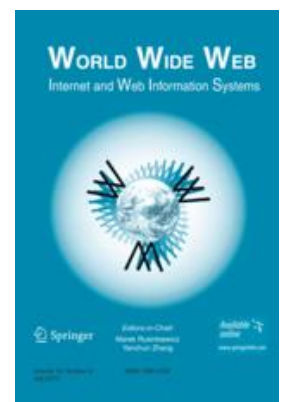
PAPER SUBMISSION:

- Authors are encouraged to submit high-quality, original work that has neither appeared in, nor is under consideration by, other journals.
- All papers will be reviewed following standard reviewing procedures for the Journal.
- Papers must be prepared in accordance with the Journal guidelines: <http://www.springer.com/11280>
- Submit manuscripts to: <http://WWWJ.edmgr.com>. Choose “Smart Computing and Cyber Technology for Cyberization” as the article type.

World Wide Web journal www.Springer.com/11280

Editors-in-Chief: M. Rusinkiewicz; Y. Zhang

Published by Springer.



studying cyber and cyber-conjugated things which are necessary for the cyber-enabled new worlds; ii) organizing the body of knowledge in cyber-related studies and applications with comprehensive frameworks in inter-, trans- and multi-discipline fields; iii) enhancing numerous cyber technologies not only in fundamental research works, but also in application system development; and iv) offering a common platform for researchers to gather many existing cyber-related research areas together, to identify and form promising new frontiers.

Topics may include (but are not limited to):

- Knowledge Modeling and Management for Cyberization
- Data Acquisition and Information Fusion in Smart Environments
- Information Sharing and Dissemination in Smart Computing
- Smart Cyber-Physical Systems
- Smart Control and Monitoring for Cyberization
- Cognitive Physical-Social Networks
- Content Analysis and Mining in Cyber-Social Networks
- Behavioral Analytics across Smart Networks
- Deep Learning in Cyberization
- Cyber-Physical Hybrid System Design
- Resource Management in heterogeneous Networks
- Intelligent Transportation Systems Using Smart Networks
- Smart Internet of Things
- Cyber-Physical-Social Data Processing and Intelligence Mining
- Modeling of Biological Neural Networks in Physical-Social Space
- Smart Data Streaming and Real-Time Processing
- Smart Object-Oriented Analytics
- Smart Sensors and Ad-Hoc Wireless Networks
- Data Storage and Integration in Cyberspace
- Distributed Computing and Parallel Processing in Cyberization
- Semantic Web Mining in Smart Computing
- Infrastructure and Platform for Intelligent Network Systems
- Dynamics in Cyber-Social Networks
- Wearable Technologies in Smart Environments
- Smart Cyber-Physical Healthcare Services
- Mobile Computing with Smart Sensors
- Smart Energy Management and Sustainability
- Privacy and Security in Smart Computing

This special issue will publish as a topical collection, linking all papers to the virtual online issue immediately via article links and an identifying tag.

IMPORTANT DATES:

Paper Submission: December 15, 2018

First Round of Reviews: March 15, 2019

Submission of Revision: May 15, 2019

Second Round of Reviews: July 15, 2019

Decision of Acceptance: August 15, 2019

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Xiaokang Zhou is currently a lecturer with the Faculty of Data Science, Shiga University, Japan. He received the Ph.D. degree in human sciences from Waseda University, Japan, in 2014. From 2012 to 2015, he was a research associate with the Faculty of Human Sciences, Waseda University, Japan. He also works as a visiting researcher in the RIKEN Center for Advanced Intelligence Project (AIP), RIKEN, Japan, from 2017. Dr. Zhou has been engaged in interdisciplinary research works in the fields of computer science and engineering, information systems, and human informatics. His research interests include ubiquitous and social computing, big data mining and analytics, behavior and cognitive informatics, user modeling, human-computer interaction, cyber intelligence and cyber-enabled applications. He has published more than 50 refereed papers in high-quality academic journals, international conference proceedings and book chapters. His research works published in academic conferences have won several positive praises, including several best paper awards in the noted international conferences. Dr. Zhou has worked as program co-chair and TPC member for several noted international conferences and workshops sponsored by IEEE and Springer. He has served as guest editor for several reputable scientific journals, including Future Generation Computer Systems, Journal of Parallel and Distributed Computing, Multimedia Tools and Applications, and Ad Hoc Networks. Dr. Zhou is a member of the IEEE CS, and ACM, USA, IPSJ, Japan, and JSAI, Japan.

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Flávia C. Delicato is currently an Associate Professor at the Federal University of Rio de Janeiro, Brazil. She received her PhD in Electrical Engineering from Federal University of Rio de Janeiro (UFRJ) in 2005 and her Doctoral Thesis was selected as one of the six best in the year by the Brazilian Computer Society. From 2006 to 2011 she was an Associate Professor of the Department of Informatics and Applied Mathematics at the Federal University of Rio Grande do Norte. Since 2011 she is an Associate Professor of the Department of Computer Science at UFRJ where she teaches for undergraduate and post-graduate courses, and integrates the Distributed Systems Research Group as a researcher. She is co-head of the Laboratory for Ubiquitous Computing (UbiComp) at UFRJ. In 2010 and 2016 she was at the University of Sydney as a visiting researcher. She has been leading and participating in several research projects with funding from International and Brazilian government agencies. Her primary research interests are wireless sensor networks, Internet of Things, edge computing, adaptive systems and middleware for ubiquitous systems. She is a Level 1 Researcher Fellow of CNPq and a Research Fellow of FAPERJ. She has published two books, over 160 refereed international conference and journal papers. She has worked as a reviewer of several international journals and in program committees of several Brazilian and International conferences. She is currently a member of the Editorial Boards of Ad Hoc Networks and Scalable Computing and Communications Journals.

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Kevin I.-K. Wang received his BE (Hons) and PhD in Computer Systems and Electrical & Electronics Engineering from the University of Auckland in 2004 and 2009, respectively. He worked as a R&D engineer in different industries for designing intelligent sensing and automation systems before re-join the University in 2012. He is currently a Senior Lecturer at the University of Auckland, New Zealand. His current research focuses on power efficient wireless sensor networks for environmental monitoring, industrial automation, and pervasive healthcare applications; statistical learning and context-aware Internet of Things (IoT) systems; middleware and service-oriented architecture. He has served as a reviewer for several reputable journals including IEEE Transactions on Industrial Informatics, Transactions on Industrial Electronics,

Transactions on Computers, Transactions on Service Computing, Sensors; and Elsevier PMC, FGCS and JNCA. He is currently an editorial member for the Journal of Ambient Intelligence and Smart Environments.

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Runhe Huang is a full professor in the Faculty of Computer and Information Sciences at Hosei University, Japan. She received her PhD in Computer Science and Mathematics from University of the West of England in 1993. Her research fields include artificial intelligence, computational intelligence computing, ubiquitous intelligence computing, and big data, machine intelligence. She has published over 100 refereed papers in the world-renowned academic journals and noted international conference proceedings. Dr. Huang has served as editorial board member and guest editor for a number of prestigious journals, including Brain Informatics Journal, International Journal of Big Data Intelligence, International Journal of Cloud Computing, International Journal of High Performance Computing and Networking, Journal of Ubiquitous Computing and Intelligence, and Journal of Autonomic and Trusted Computing. She has been invited as a general chair, program chair and TPC member for numerous international conferences sponsored by IEEE and Springer. Dr. Huang is a senior member of IEEE, a senior member of ACM, and a founding member of IEEE Computational Intelligence Society, IEEE System, Man, Cybernetics Society.