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A medium to disseminate novel experimental and theoretical research results in the field of biomedicine, biology, clinical, rehabilitation engineering, medical image processing, bio-computing, D2H2, and other health related areas.

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Call for Papers (Special issue) on:

AI-powered Smart E-Health: Methodologies and Applications

With the increasing population of aging people who have chronic diseases, citizens are paying more attention to the healthy living and disease prevention with the consideration of limited medical resources. To achieve this goal, it is necessary to launch chronic disease surveillance in patients' daily life so as to support quick and accurate diagnoses and treatment. Fortunately, IT technology has provided a promising way to collect the ever-increasing volume of medical and diagnostic data produced in daily clinical activities, which enables us to develop various E-Health applications to satisfy the diverse health requirements from different users.

However, the massive medical data collected by IT-powered surveillance devices pose a huge challenge on scalable data management and effective knowledge mining. How to manage and make full use of the big medical data in an efficient, economical and privacy-preserving manner is still a fundamental challenge. Recently, machine learning powered Artificial Intelligence (AI) has emerged as one of the key technologies to realize intelligent data analyses and pattern discovery. However, the adaptation of AI-based methods is highly demanded to achieve their full potentials in smart E-Health applications.

In this special issue, we look for significant theories, experience and algorithms in tackling new issues that challenge AI-powered Smart E-Health. We welcome researchers from both academia and industry to provide their state-of-the-art ideas covering all aspects of methodologies and applications for smart E-Health.

Potential topics include, but are not limited to, the following:

- AI-powered big data analytics for E-Health
- Machine learning and reinforcement learning for E-Health
- Intelligent data sampling and fusion in E-Health
- AI algorithms, models and framework for E-Health
- Smart control system for E-Health applications
- Security, trust and privacy in E-Health
- Cross-platform medical data sharing and integration
- Industry 4.0 and intelligent manufacture for E-Health
- Software, hardware and infrastructure supporting E-Health
- Economy, laws and ethics for E-Health

Important dates

Submission Deadline: 31 December 2020

Revised submission due, Jan. 2021

Final notice of acceptance/reject, Feb. 2021

Guest Editors

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Submission Guideline:

All manuscripts must be submitted via mstracker.com and authors are request to write in their cover letter that their submission is for this special issue and the name of the guest editor, so that the guest editor can be notified separately.

Guidelines for preparation of the manuscripts are available at the journal website

http://www.aspbs.com/jmihi/inst-auth_jmihi.htm

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Biographies:

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Prof. Sang-Bing Tsai is currently the Professor at University of Electronic Science and Technology of China Zhongshan Institute & Civil Aviation University of China. He is both Technology Management and Business Management PhD. He has published many research articles in SCI / SSCI journals, including International Journal of Production Research,

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Prof. Lianyong Qi received his Ph.D degree in Department of Computer Science and Technology from Nanjing University, China, in 2011. In 2010, he visited the Department of Information and Communication Technology, Swinburne University of Technology, Australia. Now, he is a full professor of the School of Information Science and Engineering, Qufu Normal University, China. His research interests include big data, E-health and privacy-preservation. He has published over 60 research papers (first author or corresponding author) in international journals (e.g., JSAC, TCC, TBD, TII, TCSS, TETCI, INS, JCSS, IoT-J, WWW-J, SPE, FGCS, JNCA, CCPE) and conferences (e.g., ICWS, ICSOC, CSCWD, HPCC), including 2 Best Paper Awards and 3 ESI highly cited papers.

Dr. Xuyun Zhang

Dr. Xuyun Zhang is currently working as a senior lecturer in Department of Computing at Macquarie University in Australia. He worked as a lecturer in The University of Auckland during 2016 ~ 2019 and a postdoc researcher in NICTA (National ICT Australia, now Data61, CSIRO) during 2014 ~ 2016. He got his PhD degree in Computer Science and Technology from University of Technology Sydney (UTS), Australia, and his Master's and Bachelor's degrees in the same major from Nanjing University, China. His research interests include scalable and secure machine learning, big data mining and analytics, cloud/edge/service computing and IoT, big data privacy, E-health and cyber security, etc. He as a guest editor has organised special issues for several international journals such as IEEE Transactions on Emerging Topic in Computational Intelligence, and ACM Transactions on Multimedia Computing, Communications, and Application.

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Dr. Yuan Yuan is currently a Postdoctoral Research Fellow with the Department of Computer Science and Engineering, Michigan State University, USA. He received the Ph.D. degree from the Department of Computer Science and Technology, Tsinghua University, Beijing, China, in 2015. From 2014 to 2015, he was a visiting Ph.D. student with the Centre of Excellence for

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