



**2022 12<sup>th</sup> International Conference on Information Technology  
in Medicine and Education  
ITME 2022**

# Conference Program

November 18-20, 2022, Xiamen, Fujian, China

**Technically Co-Sponsored by**  
IEEE Computer Society, USA

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Minnan Science and Technology University  
Xiamen University, China

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China Jiliang University, China.

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Hunan University of Humanities, Science and Technology, China.



## **Message from the ITME 2022 General Chairs**

ITME 2022 is the 12<sup>th</sup> International Conference on Information Technology in Medicine and Education. This conference will be taken place on November 18-20, 2022, in Xiamen, Fujian, China. The aim of the ITME 2022 is to provide an international conference for scientific research on IT in Medicine and Education. It was Technically Co-Sponsored by IEEE Computer Society, and Sponsored by Minnan Science and Technology University, China, Xiamen University, China.

ITME 2022 is the next event in a series of highly successful the International conference on IT in Medicine and Education, ITME-21(Wuyishan, China, Nov., 2021), ITME-19(Qingdao, China, Aug., 2019), ITME-18 (Hangzhou, China, Oct., 2018), ITME-16 (Fuzhou, China, Dec., 2016), ITME-15 (Huangshan, China, Nov., 2015), ITME-14 (Jeju, Korea, Jul., 2014), ITME-13 (Xining, China, Jul., 2013), ITME-12 (Hokkaido, Japan, Aug., 2012), ITME-11 (Guangzhou, China, Dec., 2011), ITME-09 (Jinan, China, Aug., 2009), ITME-08 (Xiamen, China, Dec., 2008).

We would like to express our special thanks go to the Program Chairs: Shaozi Li (Xiamen University, China), Ying Dai (Iwate Prefectural University, Japan), Yaojin Lin(Minnan Normal University, China), Xiangwei Zheng (Shandong Normal University, China), Yongjun Zhou(Minnan Science and Technology University, China), all program committee members and all the additional reviewers for their valuable efforts in the review process, which helped us to guarantee the highest quality of the selected papers for the conference.

We cordially thank all the authors for their valuable contributions and the other participants of this conference. The conference would not have been possible without their support. Thanks are also due to the many experts who contributed to making the event a success.

October 28, 2022

Xiaobo You, Minnan Science and Technology University, China

Qun Jin, Waseda University, Japan

Hong Liu, Shandong Normal University, China

Xiansheng Liu, Huanghuai University, China

ITME 2022 General Chairs

## **Message from the ITME 2022 Program Chairs**

Welcome to the 12<sup>th</sup> International Conference on Information Technology in Medicine and Education (ITME 2022), which will be held on November 18-20, 2022, in Xiamen, Fujian, China. ITME 2022 will be the most comprehensive conference focused on the IT in Medicine and Education. ITME 2022 will provide an opportunity for academic and industry professionals to discuss recent progress in the area of Medicine and Education. In addition, the conference will publish high quality papers which are closely related to the various theories and practical applications on IT in Medicine and Education. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in these important subjects.

For ITME 2022, we received many paper submissions, after a rigorous peer review process, only very outstanding paper can be accepted for the ITME 2022 proceedings, published by the IEEE Conference Publishing Services. All submitted papers have undergone blind reviews by at least two reviewers from the technical program committee, which consists of leading researchers around the globe. Without their hard work, achieving such a high-quality proceeding would not have been possible. We take this opportunity to thank them for their great support and cooperation. We also would like to thank all of you for your participation in our conference, and also thank all the authors, reviewers, and organizing committee members.

Thank you and enjoy the conference!

October 28, 2022

Shaozi Li, Xiamen University, China

Ying Dai, Iwate Prefectural University, Japan

Yaojin Lin, Minnan Normal University, China

Xiangwei Zheng, Shandong Normal University, China

Yongjun Zhou, Minnan Science and Technology University, China

ITME 2022 Program Chairs

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Qun Jin, Waseda University, Japan

Hong Liu, Shandong Normal University, China

Xiansheng Liu, Huanghuai University, China

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Fanwu Chen, Minnan Science and Technology University, China

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Zongmin LI, China University of Petroleum, China  
Zongpu JIA, Henan Polytechnic University, China



## Technology Convergence for Common Good and Human Well-Being

Professor Qun Jin  
Department of Human Informatics and Cognitive Sciences  
Waseda University, Japan

### Abstract:

In recent years, convergence of emerging technologies, such as artificial intelligence (AI), big data, Internet of Things (IoT), and blockchain, has gained increasing worldwide attention and is highly expected to enable and drive innovative solutions and digital transformation for human society. In this talk, after briefly introducing technology convergence in national strategies, such as Industry 4.0 in German, and Society 5.0 in Japan, and for common benefits of humanity, such as SDGs, our vision and work on technology convergence for common good and human well-being will be described and explained, focusing on understanding humans and supporting human well-being through big data analytics and individual modeling enhanced by technology convergence of AI, IoT and blockchain. Furthermore, important issues on technology convergence and promising solutions and applications to improve quality of life (QoL) and promote well-being for all the people will be addressed and discussed.

### Biography:



Qun Jin is a professor at the Networked Information Systems Laboratory, Department of Human Informatics and Cognitive Sciences, Faculty of Human Sciences, Waseda University, Japan. He has been extensively engaged in research works in the fields of computer science, information systems, and human informatics. His recent research interests cover human-centric ubiquitous computing, behavior and cognitive informatics, big data, personal analytics and individual modeling, cyber security, blockchain, intelligence computing and applications in healthcare, and computing for well-being. He authored or co-authored several monographs and more than 300 refereed papers published in academic journals and international conference proceedings. He served as a general chair, program chair, and keynote speaker for numerous IEEE sponsored international conferences. He served as a guest editor in recent years for IEEE Transactions on Industrial Informatics, IEEE/ACM Transactions on Computational Biology and Bioinformatics, IEEE Transactions on Computational Social Systems, IEEE Transactions on Emerging Topics in Computing, IEEE MultiMedia, and IEEE Cloud Computing. He is a foreign member of the Engineering Academy of Japan (EAJ).

## Effective Privacy Preservation in Blockchain

Professor Jinjun Chen  
School of Software and Electrical Engineering  
Swinburne University of Technology, Australia

### Abstract

Blockchain presents many advantages such as decentralization and trust without credibility for underpinning various applications especially in finance. However, user privacy such as identity and contract sensitive data needs to be preserved properly. How to protect user privacy in blockchain comes to the picture and calls for effective solutions. Especially, we need to consider data utility when preserving user privacy. In this talk, I will illustrate my recent progress in this research challenge.



### Biography:

Dr Jinjun Chen is a Professor from Swinburne University of Technology, Australia. He holds a PhD in Information Technology from Swinburne University of Technology, Australia. His research interests include data privacy and security, cloud computing, scalable data processing, data systems and related various research topics. His research results have been published in more than 200 papers in international journals and conferences, including various IEEE/ACM Transactions. He received various awards such as Editorial Excellence and Eminence Award of IEEE Transactions on Cloud Computing (2018), and UTS Vice-Chancellor's Awards for Research Excellence Highly Commended (2014). He is currently an Associate Editor for ACM Computing Surveys, IEEE Transactions on Computers and IEEE Transactions on

Sustainable Computing. He is a MAE (Academia Europea), Highly Cited Researcher (2021) and IEEE Fellow (IEEE Computer Society).

# Computational Psychophysiology Based Emotion Analysis for Mental Health

Professor Bin Hu

School of Medical Technology and the Institute of Engineering Medicine

Beijing Institute of Technology, China

## Abstract:

Computational psychophysiology is a new direction that broadens the field of psychophysiology by allowing for the identification and integration of multimodal signals to test specific models of mental states and psychological processes. Additionally, such approaches allows for the extraction of multiple signals from large-scale multidimensional data, with a greater ability to differentiate signals embedded in background noise. Further, these approaches allows for a better understanding of the complex psychophysiological processes underlying brain disorders such as autism spectrum disorder, depression, and anxiety. Given the widely acknowledged limitations of psychiatric nosology and the limited treatment options available, new computational models may provide the basis for a multidimensional diagnostic system and potentially new treatment approaches.

## Biography:



Bin Hu received his Ph. D. degree in computer science from the Institute of Computing Technology, Chinese Academy of Science in 1998. He is currently a Professor and Dean of the School of Medical Technology and the Institute of Engineering Medicine, Beijing Institute of Technology, China. He is also an Adjunct Professor, the former Dean of the School of Information Science and Engineering, Lanzhou University, Lanzhou, China. He is a National Distinguished Expert, the Chief Scientist of 973 as well as the National Advanced Worker in 2020, who was elected as a Fellow of the Institution of Engineering and Technology (IET). He is a Member of the Steering Council of the ACM China Council and the Vice-Chair of the China Committee of the International Society for Social Neuroscience. He serves as the Editor-in-Chief for the IEEE Transactions on Computational Social Systems. He is also the TC Co-Chair of computational psychophysiology in the IEEE Systems, Man, and Cybernetics Society (SMC), and the TC Co-Chair of cognitive computing in IEEE SMC. He is a Member of the Steering Committee of Computer Science at the Chinese Ministry of Education, Science and Technology Commission at the Chinese Ministry of Education. His awards include the 2014 China Overseas Innovation Talent Award, the 2016 Chinese Ministry of Education Technology Invention Award, the 2018 Chinese National Technology Invention Award, and the 2019 WIPO-CNIPA Award for Chinese Outstanding Patented Invention. He is a Principal Investigator for large grants such as the National Transformative Technology “Early Recognition and Intervention Technology of Mental Disorders Based on Psychophysiological Multimodal Information”, which have greatly promoted the development of objective, quantitative diagnosis and non-drug interventions for mental disorders.

## Cyber-Physical-Social Systems

Professor Laurence T. Yang

FCAE, FEIC, MAE, FIEEE, FIET

School of Computer Science and Technology

Hainan University, China

## Abstract:

The booming growth and rapid development in embedded systems, wireless communications, sensing techniques and emerging support for cloud computing and social networks have enabled researchers and practitioners to create a wide variety of Cyber-Physical-Social Systems (CPSS) that reason intelligently, act autonomously, and respond to the users’ needs in a context and situation-aware manner. The CPSS are the integration of computation, communication and control with the physical world, human knowledge and

sociocultural elements. It is a novel emerging computing paradigm and has attracted wide concerns from both industry and academia in recent years. Currently, CPSS are still in their infancy stage. Our first ongoing research is to study effective and efficient approaches for CPSS modeling and general system design automation methods, as well as methods analyzing and/or improving their power and energy, security, trust and reliability features. Once the CPSS have been designed, they collect massive data (Volume) from the physical world by various physical perception devices (Variety) in structured/semi-structured/unstructured format and respond the users' requirements immediately (Velocity) and provide the proactive services (Veracity) for them in physical space or social space. These collected big data are normally high dimensional, redundant and noisy, and many beyond the processing capacity of the computer systems. Our second ongoing research is focused on the Big Data-as-a-Service framework, which includes data representation, dimensionality reduction, incremental and distributed processing, security and privacy, deep learning, clustering, prediction and proactive services, aiming at representing and processing big data generated from CPSS, providing more valued smart services for human and refining the previously designed CPSS. This talk will present our latest research on these two directions. Corresponding case studies in some applications such as smart traffics will be shown to demonstrate the feasibility and flexibility of the proposed system design methodology and analytic framework.

#### **Biography:**



Laurence T. Yang got his BE in Computer Science and Technology and BSc in Applied Physics both from Tsinghua University, China and Ph.D in Computer Science from University of Victoria, Canada. He is the Academic Vice-President and Dean of School of Computer Science and Technology of Hainan University, China. His research includes Cyber-Physical-Social System Design and Data Analytics. He has published 300+ papers in the above areas on top IEEE/ACM Transactions with total citations of 31231 and H-index of 89 including 8 and 40 papers as top 0.1% and top 1% highly-cited ESI papers, respectively.

He has been involved actively act as a steering chair for 10+ IEEE international conferences. He is the chair of IEEE CS Technical Committee of Scalable Computing (2008-2011, 2018-2021), the co-chair of IEEE SMC Technical Committee on Cybermatics (2016-), the co-chair of IEEE SC Hype-Intelligence Technical Committee (2021-), and the chair IEEE CIS Cyber-Physical-Social Systems Task Force (2019-) and the vice-chair of IEEE CIS Technical Committee on Smart World (2016-2019). In addition, he is serving as an editor for many international journals and is an author/co-author or an editor/co-editor of more than 25 books from well-known publishers, invited to give around 50 keynote talks at various international conferences and symposia.

He is a Fellow of Canadian Academy of Engineering (2017), Engineering Institute of Canada (2019), Institute of Electrical and Electronics Engineers (2020), and Institution of Engineering and Technology (2020), as well as a member of Academia Europaea, the Academy of Europe (2021), respectively. His recent honors and awards include the John B. Stirling Medal (2021) from Engineering Institute of Canada, IEEE Sensor Council Technical Achievement Award (2020), IEEE Canada C. C. Gotlieb Computer Medal (2020), ACM Distinguished Scientist (2020), Clarivate Analytics (Web of Science Group) Highly Cited Researcher (2019, 2020, 2022), etc.

## Conference Schedule

Date	Time	Matters	Address
2022-11-18	14:00-18:00	Registration	Hotel Lobby , Vienna International Hotel
2022-11-19	08:40-18:00	Registration	Hotel Lobby , Vienna International Hotel
	09:00-09:10	Opening Remarks and Take Photos	6F floor Huajian Hall Vienna International Hotel
	09:10-9:50	Keynote by Qun Jin	6F floor Huajian Hall Vienna International Hotel
	9:50-10:30	Keynote by Jinjun Chen	6F floor Huajian Hall Vienna International Hotel
	10:30-10:40	Coffee Break	
	10:40-11:20	Keynote by Bin Hu	6F floor Huajian Hall Vienna International Hotel
	11:20-12:00	Keynote by Laurence T. Yang	6F floor Huajian Hall Vienna International Hotel
	12:00-13:30	Lunch Impression Hall Vienna International Hotel on the second floor	
	14:00-15:15	Oral Session A	6F floor Huajian Hall Vienna International Hotel
	15:15-15:40	Coffee break	
	15:40-16:55	Oral Session B	6F floor Huajian Hall Vienna International Hotel
	18:00-19:30	Banquet: 6F floor Huajian Hall Vienna International Hotel	
2022-11-20	09:00-17:00	Registration	Hotel Lobby , Vienna International Hotel
	09:00-10:20	Poster Session C	6F floor Huajian Hall Vienna International Hotel
	10:20-10:40	Coffee break	
	10:40-12:00	Poster Session D	6F floor Huajian Hall Vienna International Hotel
	12:00-13:30	Lunch 6F floor Huajian Hall Vienna International Hotel	
	14:00-16:00	Visit Xiamen University and participate other academic activities.	

### Instructions for Presentations

#### Oral Presentation

#### Devices Provided by the Conference:

Laptops (with MS-Office & Adobe Reader)

Projectors & Screen

#### Materials Provided by the Presenters:

PowerPoint or PDF files

Duration of each Presentation (Tentatively): 15 minutes

Regular Oral Session: about 10 Minutes of Presentation, 5 Minutes of Q&A

Keynote Speech: 35 Minutes of Presentation, 5 Minutes of Q&A

**Poster Session**

Poster Session at inside of Vienna International Hotel (Flagship Store of Xiamen University).

The time at November 18-20, 2022.

**Devices Provided by the Conference:**

Space and nails

**Materials Provided by the Presenters:**

90cm×60cm poster

**November 18, 2022**

**Registration 14:00-18:00**

**November 19, 2022**

**09:00—09:10 Opening Remarks and Take Photos**

**09:10-9:50 Keynote 1**

**Technology Convergence for Common Good and Human Well-Being (Prof. Qun Jin)**

**9:50-10:30 Keynote 2**

**Effective Privacy Preservation in Blockchain (Prof. Jinjun Chen)**

**10:30-10:40 Coffee break**

**10:40-11:20 Keynote 3**

**Computational Psychophysiology Based Emotion Analysis for Mental Health(Prof. Bin Hu)**

**11:20-12:00 Keynote 4**

**Cyber-Physical-Social Systems (Prof. Laurence T. Yang)**

**12:00-13:30 Lunch**

**14:00-15:45 Oral Session A**

**Session Chair:** Meilong Chen, Minnan Science and Technology University, China

85107	Analyzing Memory Access Traces of Deep Learning Workloads for Efficient Memory Management	Jeongha Lee,Hyokyung Bahn
85118	Reducing the Overhead of Virtual Memory Swapping by Considering Application Characteristics and Memory Situations	Hyokyung Bahn, Jisun Kim
85101	Improving the Emotion Classification by a combination of Personal Texts and Social Big Data Based on Naive Bayes	Yusuke Sekine, Seiji Kasuya, Kiichi Tago
85072	A Comparative Analysis of Legal Issues in Medical Informatics Abroad and in China	Xi Wang,Wuqi Qiu, Hongyan Sun
85075	The TCM medication rule analysis for emotional diseases caused by panic disorder based on data mining	<b>HOU Xiaorui,SU Li,HAN Xiyang,SUN Xiuli,CAO Yuanyuan,PAN Xuefeng,SU Wei</b>
85161	Study on the named entity recognition of TCM electronic medical records based on the ALBERT-BiLSTM-CRF model	PAN Xuefeng <sup>1</sup> , CAO Yuanyuan <sup>2</sup> , HOU Xiaorui <sup>1</sup> , SU Wei <sup>1*</sup>
85176	Hash learning with approximate distance	Jin Zhuang Liu,Xiaodan Xu,Zhengzhong Long,Huawen Liu

**15:45-16:00 Coffee break**

**16:00-17:45 Oral Session B**

**Session Chair:** Meilong Chen, Minnan Science and Technology University, China

85011	Teaching Practice of "SPOC College" —A Case Study of "Data Visualization Technology" course	Junying Feng, Huandong Chen, Jinmei Shi, Peng Ye
85027	The mental health benefits and feasibility of the smartphone-based interpretation bias modification training in working population	Chun Liao,Lingyun Li,Delhii Hoid,Xuebing Li
85073	Unsupervised Time Series Anomaly Detection under Data Contamination	Xiaohui Lin,Zuoyong Li,Xunhua Huang,Xinwei Chen,Haoyi Fan
85097	Feature Generation Model for Imbalanced Classification Problems	Han Ye, Guodong Du, Shaozi Li
85113	Multi-scale Retinal Vessel Tortuosity Measurement Based on Wavelet Transform	Haixin Song,Lei Li,Zhiming Luo, Sheng Lian,Shaozi Li
85115	A TCM Disease Retrieval Method Based on Weighted Word Vector	Liwen Deng,Jiajun Xu,Shaozi Li
85179	Cross Attention with Transformer for Few-shot Medical Image Segmentation	Yao Niu,Zhuoran Li,Shaozi Li

### 18:00-19:30 Banquet

**November 20, 2022**

**09:00-12:00 Poster Session**

**12:00-13:30 Lunch**

**14:00-16:00 Visit Xamen University and participate other academic activities**

### Poster Session

85004	Research on automatic text clustering method based on Improved PSO	Yuepeng Zhou, Huiyou Chang, Xian Deng, Xili Lu
85005	Online Teaching Practice of Computer Network Course	En Yuan, Jun Xie , Peng Liu, Weiwei Chen, Yanqin Tang, Wenyu Zhang
85006	Investigation and research countermeasures of students' subjectivity in mathematics classroom teaching in junior middle school	Xinyue Li,Zhaoying Chen
85007	Exploration on opening and sharing of large-scale instruments and equipment in universities	XING Lu, Wei Xiaochuan, Sui Chunxiao, Deng Jianfeng, SU Liyan
85008	Constructing Course System of Robot Engineering from Perspective of Robot-making	Xinyu Liu, Xinyu Liu
85009	Research on the training mode of innovative and entrepreneurial talents in higher vocational colleges based on the integration of production and education under the normal state of epidemic prevention and control	Wenhua Qiu,Zhijie Wang,Zhenzhen Qiu
85010	Research on teaching service platform based on SPOC teaching platform	Zhengjun Zhou, Chunhui Song, Jinmei Shi, Peng Ye
85011	Teaching Practice of "SPOC College" —A Case Study of "Data Visualization Technology" course	Junying Feng, Huandong Chen, Jinmei Shi, Peng Ye
85012	Efficacy and safety of acupuncture for cervicogenic insomnia:A protocol for a systematic review and meta-analysis	Xianglei Li, Ruiyu Li, Xinyun Zhu, Fengya Zhu
85013	To explore the prevention and treatment of diabetic vascular diseases based on "Yingwei theory"	Li Ruiyu, Li Meng, Chen Dan, Zhang Chenyu, Li Yue, Li Xing, Guo Weiya, Jia Yingmin

85015	Design and Construction of the New Web Learning System of Tsinghua University	Zhong Wenfeng, Chen Huaichu, Xie Suping, Yin Jia, Dong Li
85016	Function P-sets and Its Attribute Dependence of Information Law	Wengeng Ge, Ping Chen, Renzhi Zhang, Junming Zhang
85017	The Application of GSP in Junior Middle School Mathematics —— take the Suke version textbook as an example	Jing Li, Zhaoying Chen
85018	Exploration on the teaching of performance design studio in Colleges and Universities Based on the concept of OBE	He Zhao, Xiaoyang Liu
85019	The Influencing Factors of Learning Satisfaction in Blended Learning during Covid-19 in Chinese medical university	Yinghui You, Wenjie Teng, Pengtao Liu
85020	NAGNet: A Convolutional Neural Network for Real-Time Sentiment Analysis of Students	Huihui Zhu, Pengyun Hu, Xianpiao Tang, Daoxun Xia
85021	Flower image classification based on improved convolutional neural network	Gao Yifei <sup>1</sup> , Qiu Chuxian <sup>1</sup> , Xu Jiexiang <sup>*</sup> , Miao Yixuan <sup>*</sup> , Teoh Teik Toe
85022	Comparative Study of Transfer Learning and VGGNet based Classification of Alzheimer's Disease	Qiming Li, Weipeng He, Xiaoyuan Zhang, Yaqing Yang, Teoh Teik Toe
85023	Exploration and Research on Ideological and Political Teaching System of Linear Algebra	Chunyan Liu
85025	Knowledge graph construction for computer networking course group in secondary vocational school based on multi-source heterogeneous data	Gang Li, Hong Wang, Hong Liu
85026	Research on the Metaverse Teaching from the Perspective of Pedagogy	Yi Zhang, Shuyue Yang, Xiaoqiang Hu <sup>*</sup> , Ping He
85027	The mental health benefits and feasibility of the smartphone-based interpretation bias modification training in working population	Chun Liao, Lingyun Li, Delhii Hoid, Xuebing Li
85028	A Channel-level Neural Network Compression Method Based on K-order Statistics	Yang Cao, Han Zhao, Kaifang Long, Weizhi Xu, Zhen Xu, Hui Yu
85029	Impact analysis of COVID-19 pandemic on students' online exams based on topic model	Yang Chuanrui, Wang Hong, Zheng Yuanjie
85030	A Framework for simulation control Systems Based on Software Product Line	Xu Huijuan <sup>1,4</sup> , Li Xu <sup>2,*</sup> , Sun Xiaoning <sup>3</sup>
85031	Design of wrist rehabilitation robot	Zhenfeng Wang
85032	Design of intelligent diffraction light intensity measuring instrument based on Internet of things	Liu Aobo, Zhao Xueyi, Liang Chenjie, Tong Yanrong
85033	Vehicle Detection in UAV Remote Sensing Image Based on Improved YOLOv5	Lichuan Geng, Zhongfeng Wang, Bangjin Wang, Yunlong Cui
85035	Design and simulation of intelligent orchard system based on Internet of Things	Li Xu <sup>1,*</sup> , Sun Xiaoning <sup>2</sup> , Luo Zhipeng <sup>1</sup> , Xu Huijuan <sup>3,4</sup>
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