GPC & ICPCSEE 2022
Tencent Meeting : 114-676-418

GPC 2022

ICPCSEE 2022

The 17th International Conference on Green, Pervasive, and Cloud Computing

The 8th International Conference of Pioneering Computer Scientists, Engineers and Educators

2-4 December, 2022 Chengdu · Online, china

Conference Handbook

GPC 2022 International Conference on Green, Pervasive, and Cloud Computing

2022 國際計算機前沿大會 International Conference of Pioneering Computer Scientists, Engineers and Educators

ICPCSEE 2022

Welcome from the GPC & ICPCSEE 2022 Program committee

As the program chairs of the 17th International Conference on Green, Pervasive, and Cloud Computing (GPC 2022) and the 8th International Conference of Pioneer Computer Scientists, Engineers and Educators (ICPCSEE 2022), it is our great pleasure to welcome you to the conference, which will be held in Chengdu • Online, China, 2-4 December 2022, hosted by Huazhong University of Science and Technology, Southwest Petroleum University, University of Electronic Science and Technology of China and National Academy of Guo Ding Institute of Data Sciences. The goal of this conference is to provide a forum for computer scientists, engineers and educators to communicate with each others.

After the hard work of the Program Committee, 20 papers of GPC 2022 and 33 papers of ICPCSEE 2022 were accepted to be presented in the conference. The major topic of GPC 2022 is Green, Pervasive, and Cloud Computing, and the major topic of ICPCSEE 2022 is Data Science.

We would like to thank all the Program Committee members of both conferences, for their hard work in completing the review tasks. Their collective efforts made it possible to attain quality reviews for all the submissions within a few weeks. Their diverse expertise in each research area helped us to create an exciting program for the conference. Their comments and advice helped the authors to improve the quality of their papers and gain deeper insights.

At present, the COVID-19 epidemic is spreading rapidly around the world, which brings challenges for long distance travel. The safety and well-being of all conference participants are our priority. After studying and evaluating the announcements, guidance, and news released by relevant national departments, we have to announce that GPC2022 and ICPCSEE2022, scheduled to be held online. Great thanks should also go to the authors and participants for their tremendous support in making the conference a success.

We thank Dr. Jane Li from Springer, whose professional assistance was invaluable in the production of the proceedings. Great thanks should also go to the authors and participants for their tremendous support in making the conference a success. Besides the technical program, this year GPC and ICPCSEE offers different experiences to the participants. We hope you enjoy the conference.

December 2022

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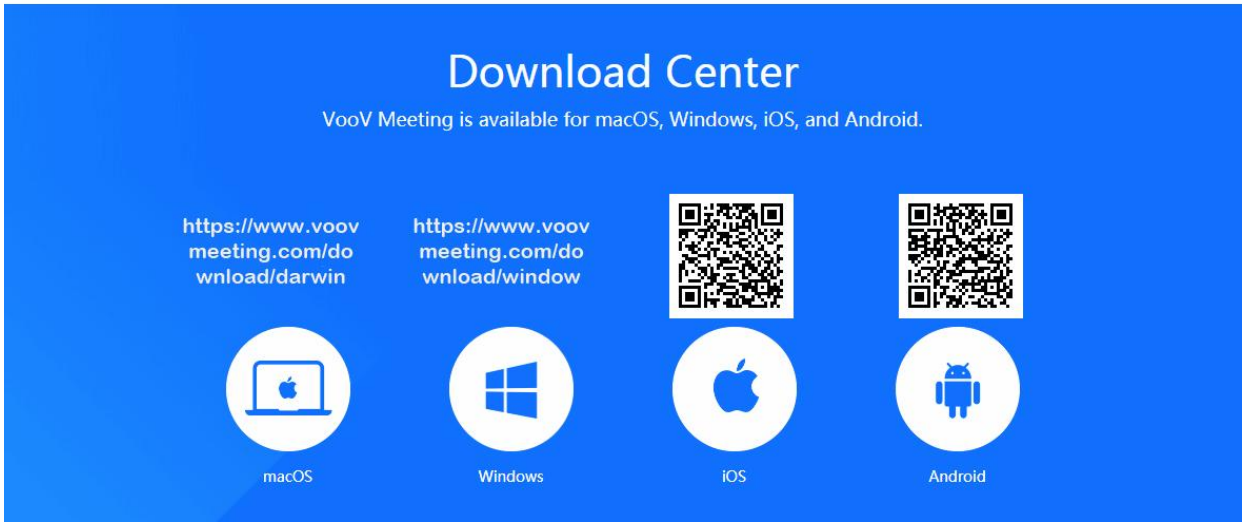

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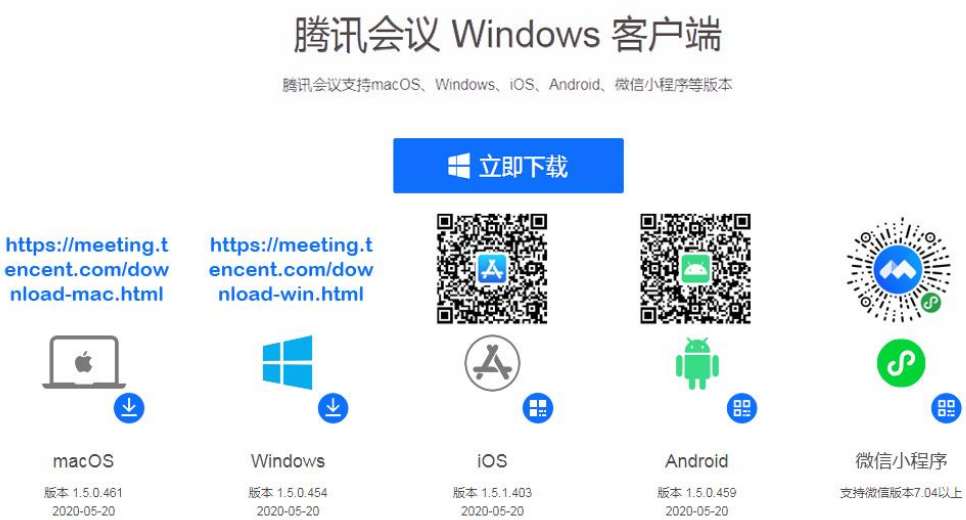

Program at a Glance

UTC+8，Beijing Time

December 3rd		
09:00-09:20	Opening ceremony Host: **Chen Yu** (Huazhong University of Science and Technology)	Tencent Cloud Voov Meeting Live : 114-676-418
09:20-09:30	Cloud Group Photo	
Host: **Chen Yu** (Huazhong University of Science and Technology)		
09:30-10:00	Keynote: **Quan Chen** Shanghai Jiao Tong University **Towards low latency serverless computing for complex applications**	
10:00-10:10	Tea break	
10:10-11:00	GPC Oral Session and POST 1-1 Chair: **Chen Yu** (Huazhong University of Science and Technology)	
11:00-11:10	Tea break	
11:10-12:00	ICPCSEE Oral Session and POST 1-1 Chair: **Dan Lu** (Harbin Engineering University, China)	
12:00-14:00	Lunch	
Host: **Xin Wang** (Southwest Petroleum University)		
14:00-14:30	Keynote: **Gautam Srivastava** Brandon University, Canada **Blockchain Technology for the Internet of Medical Things**	
14:30-14:40	Tea break	
14:40-15:30	GPC Oral Session and POST 1-2 Chair: **Chen Yu** (Huazhong University of Science and Technology)	
15:30-15:40	Tea break	
15:40-17:00	ICPCSEE Oral Session and POST 1-2 Chair: **Dan Lu** (Harbin Engineering University, China)	

December 4th		
Host: **Chen Yu** (Huazhong University of Science and Technology)		Tencent Cloud Voov Meeting Live : 114-676-418
09:00-09:30	Keynote: **Jian Li** Shanghai Jiao Tong University Heterogenous data compression and security enhancement for cloud infrastructure	
09:30-09:40	Tea break	
09:40-10:30	GPC Oral Session and POST 2-1 Chair: **Chen Yu** (Huazhong University of Science and Technology)	
10:30-10:40	Tea break	
10:40-12:00	ICPCSEE Oral Session and POST 2-1 Chair: **Xiaoou Ding** (Harbin Institute of Technology, China)	
12:00-14:00	Lunch	
14:00-14:50	GPC Oral Session and POST 2-2 Chair: **Chen Yu** (Huazhong University of Science and Technology)	
14:50-15:00	Tea break	
15:00-17:00	ICPCSEE Oral Session and POST 2-2 Chair: **Xiaoou Ding** (Harbin Institute of Technology, China)	

Main Conference, December 3rd

09:00-09:20 Opening Ceremony

09:20-09:30 Cloud Group Photo

09:30-10:00 Keynote

GPC & ICPCSEE 2022
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TOPIC

Towards low latency serverless computing for complex applications

SPEAKER

Quan Chen（Shanghai Jiao Tong University）

BIO

Dr. Quan Chen is a professor at the department of computer science and engineering, Shanghai Jiao Tong University. His main research interest lies in computer systems, computer architectures and cloud computing. He has published over 100 peer-reviewed papers in leading venues related to these areas, including ASPLOS, ATC, ISCA, SC, ICS, TPDS, TC, et, al. He is the recipient of the NSFC career award, and IEEE TCSC Award for Excellence (Early career researcher). He is awarded the 2019 Alibaba DAMO Academy Young Fellow. He is on the editorial board of Parallel Computing, JCST, and FCS.

ABSTRACT

Serverless computing has been widely used to run fine grained functions in the cloud native era. However, large scale applications with complex dependencies between the functions are not able to benefit from serverless computing. This is mainly because the design logic of serverless computing did not consider: 1) the impact of the communication overheads between the functions, 2) the overhead of the cold container startup. To this end, this talk introduces the key challenges in serverless computing to handle complex applications, the communication-aware function scheduling, and a technique that alleviates the container cold startup through inter-function container sharing.

10:00-10:10 Tea break

10:10-11:00 GPC Oral Session and POST 1-1

Chair: Chen Yu (Huazhong University of Science and Technology)

10:10-10:20	GPC Paper NO.1374	SFYOLO: a lightweight and effective network based on space-friendly aggregation perception for pear detection
10:20-10:30	GPC Paper NO.7560	MixKd: Mix data augmentation guided knowledge distillation for plant leaf disease recognition
10:30-10:40	GPC Paper NO.8760	Optimizing video QoE for eMBMS users in the Internet of Vehicles
10:40-10:50	GPC Paper NO.1763	Decision Tree Fusion and Improved Fundus Image Classification Algorithm
10:50-11:00	GPC Paper NO.8090	Performer: A Resource Demand Forecasting Method for Data Centers

11:00-11:10 Tea break

11:10-12:00 ICPCSEE Oral Session and POST 1-1

Chair: Dan Lu (Harbin Engineering University, China)

11:10-11:20	ICPCSEE Paper NO.3689	DRIB: Interpreting DNN with Dynamic Reasoning and Information Bottleneck
11:20-11:30	ICPCSEE Paper NO.3122	A Review of Animal Individual Recognition Based on Computer Vision
11:30-11:40	ICPCSEE Paper NO.0213	Advanced Generative Adversarial Network for Image Superresolution
11:40-11:50	ICPCSEE Paper NO.3275	Audit Scheme of University Scientific Research Funds Based on Consortium Blockchain
11:50-12:00	ICPCSEE Paper NO.9227	Semantic Decision Internal-Attention Graph Convolutional Network for End-to-End Emotion-Cause Pair Extraction

12:00-14:00 Lunch

14:00-14:30 Keynote

GPC & ICPCSEE 2022
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TOPIC

Blockchain Technology for the Internet of Medical Things

SPEAKER

Gautam Srivastava（Brandon University, Canada）

BIO

Dr. Gautam Srivastava (Senior Member, IEEE) has extensive Editorial Experience including IEEE Trans on Fuzzy Systems, IEEE Trans on Industrial Informatics, IEEE Transactions on Intelligent Transportations Systems, ACM Transactions on Internet Technology, and ACM Transactions on Low-Resource Asian Languages. Dr. Gautam Srivastava was awarded a B.Sc. from Briar Cliff University in Sioux City, Iowa, the U.S.A. in 2004, followed by an M.Sc. and Ph.D. from the University of Victoria in Victoria, British Columbia, Canada, in the years 2006 and 2012, respectively. He then worked for 3 years at the University of Victoria in the Department of Computer Science (Faculty of Engineering), where he was regarded as one of the top Undergraduate professors in Computer Science Course Instruction at the University. From there in 2014 he started a tenure-track position at Brandon University in Brandon, Manitoba, Canada, where he currently is an Assistant Professor. Dr. G (as he is popularly known) is active in research in the fields of Data Mining and Big Data. During his 8-year academic career, he has published a total of 400 papers in high-impact conferences and journals. He has over 7000 citations in his career and has been recognized with additional adjunct positions in Canada, Taiwan, India, and China. He has given keynote addresses at many well known conferences. Dr. Srivastava currently hold a federal grants through NSERC, MITACS, and CIRA. He also sits on many internal funding agencies as an external reviewer and is currently a Section Chair for the NSERC Discovery Grant Evaluation Group for Computer Science.

ABSTRACT

The healthcare industry has been at the cutting edge of technology since time immemorial. Hardware, software, medication, surgical procedures; the quality of care available to patients in 2022 has never been better. And yet, the administration and data management underpinning that care is severely lagging behind. In this talk, we will examine how Blockchain Technology may be a game changer for the Medical profession. The technology most commonly associated with Bitcoin could actually transform how we manage electronic medical records (EMR). Deploying EMR using blockchain has the potential to fundamentally disrupt the healthcare industry for good. During this tutorial, we will look at the pros as well as the cons of such implementations. We will dive into current research that is ongoing in this growing field and try to predict future directions this research may take.

14:30-14:40 Tea break

14:40-15:30 GPC Oral Session and POST 1-2

Chair: Chen Yu (Huazhong University of Science and Technology)

14:40-14:50	GPC Paper NO.5918	A Blockchain-Based Distributed Machine Learning Approach for Resource Allocation in Vehicular Ad-Hoc Networks
14:50-15:00	GPC Paper NO.2318	Construction Method of National Food Safety Standard Ontology
15:00-15:10	GPC Paper NO.6908	Deployment Strategy of Highway RSUs for Vehicular Ad-Hoc Networks Considering Accident Notification
15:10-15:20	GPC Paper NO.7071	CPSOCKS: Cross-platform Privacy Overlay Adapter based on SOCKSv5 protocol
15:20-15:30	GPC Paper NO.6775	HeartIt: Low-power Smoking Detection with a Smartwatch on Either Wrist

15:30-15:40 Tea break

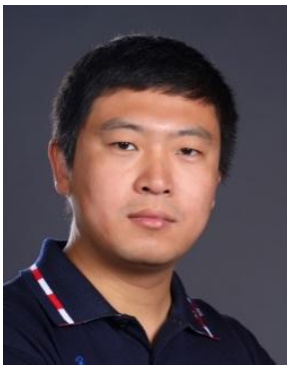
15:40-17:00 ICPCSEE Oral Session and POST 1-2

Chair: Dan Lu (Harbin Engineering University, China)

15:40-15:50	ICPCSEE Paper NO.6862	An Efficient Association Rule Mining Based Spatial Keyword Index
15:50-16:00	ICPCSEE Paper NO.2390	Cuffless Blood Pressure Estimation Based on Both Artificial and Data-Driven Features from Plethysmography
16:00-16:10	ICPCSEE Paper NO.0465	RETAD: Vehicle Trajectory Anomaly Detection Based on Reconstruction Error
16:10-16:20	ICPCSEE Paper NO.9561	A Study on Business Chinese Supplementary Vocabulary and Topic Database
16:20-16:30	ICPCSEE Paper NO.1773	CTNRL: A Novel Network Representation Learning with Three Feature Integrations
16:30-16:40	ICPCSEE Paper NO.4228	Robust Object Searching based on a Novel Contrast Operator
16:40-16:50	ICPCSEE Paper NO.8219	Origin Oriented Shuffled Frog Leaping Vehicle Routing Multi-objective Optimization Algorithm
16:50-17:00	ICPCSEE Paper NO.1594	A Preliminary Study of Interpreting CNNs Using Soft Decision Trees

Main Conference, December 4th

09:00-09:30 Keynote



GPC & ICPCSEE 2022
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TOPIC

Heterogenous data compression and security enhancement for cloud infrastructure

SPEAKER

Jian Li（Shanghai Jiao Tong University）

BIO

Jian Li received the PhD degree in computer science from the “Institut National Polytechnique de Lorraine (INPL)”- Nancy, France, in 2007. He is currently a professor in School of Software, Shanghai Jiao Tong University. He is an ACM member, IEEE senior Member and CCF member. His research interests include virtualization, networking system and cloud computing. He has fruitful publications in the related scope, and the representative publications include PPoPP, ATC, SoCC, VEE, INFOCOM, ICPP, DATE, TPDS, JSAC, TDSC, TCC, JSA, etc.

ABSTRACT

Currently, the heterogenous hardware has been widely adopted in cloud datacenter to provide a wide variety of performance accelerations, TCO reduction and security enhancements. However, practical deployment of such heterogenous system relies on deep system software (such as FS or KMS) codesign with the miscellaneous hardware. Data compression that can not only provide space efficiency with lower Total Cost of Ownership (TCO) but also enhance I/O performance to address the storage wall because of the reduced read/write operations. However, lossless compression algorithms with high compression ratio (e.g. gzip) inevitably incur high CPU resource consumption. This talk will introduce an ASIC-accelerated compression in file system to transparently benefit all applications running on it and provide high-performance and cost-efficient data storage. In addition, this talk will also introduce the high-critical data protection, such as the private key, in public cloud infrastructure.

09:30-09:40 Tea break

09:40-10:30 GPC Oral Session and POST 2-1

Chair: Chen Yu (Huazhong University of Science and Technology)

09:40-09:50	GPC Paper NO.9000	Huffman Tree based Multi-resolution Temporal Convolution Network for Electricity Time Series Prediction
09:50-10:00	GPC Paper NO.3221	Federated Learning-based Driving Strategies Optimization for Intelligent Connected Vehicles
10:00-10:10	GPC Paper NO.5028	Traffic Sign Image Segmentation Algorithm Based on Improved Spatio-Temporal Map Convolution
10:10-10:20	GPC Paper NO.7763	Multiresolution Knowledge Distillation and Multi-level Fusion for Defect Detection
10:20-10:30	GPC Paper NO.5441	Research on Sheep Counting Algorithm under Surveillance Video

10:30-10:40 Tea break

10:40-12:00 ICPCSEE Oral Session and POST 2-1

Chair: Xiaoou Ding (Harbin Institute of Technology, China)

10:40-10:50	ICPCSEE Paper NO.8520	Research on the Construction of Malware Variant Datasets and Their Detection Method
10:50-11:00	ICPCSEE Paper NO.5309	A Survey of Malware Classification Methods Based on Data Flow Graph
11:00-11:10	ICPCSEE Paper NO.1798	A Survey of Detection Methods for Software Use-After-Free Vulnerability
11:10-11:20	ICPCSEE Paper NO.9694	Car Price Prediction Based on the Iterative Framework of XGBoost + LightGBM
11:20-11:30	ICPCSEE Paper NO.5620	Research on the Design and Education of Serious Network Security Games
11:30-11:40	ICPCSEE Paper NO.8736	Reducing Video Transmission Cost of The Cloud Service Provider with QoS-Guaraneed
11:40-11:50	ICPCSEE Paper NO.4046	Completion of Parallel App Software User Operation Sequences based on Temporal Context
11:50-12:00	ICPCSEE Paper NO.3431	Document-Level Sentiment Analysis of Course Review Based on BG-Caps

12:00-14:00 Lunch

14:00-14:50 GPC Oral Session and POST 2-2

Chair: Chen Yu (Huazhong University of Science and Technology)

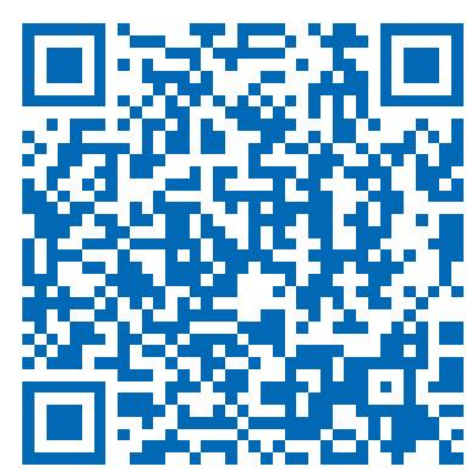
14:00-14:10	GPC Paper NO.1688	Feature Fusion Expression Recognition Algorithm Based on DCA Dimensionality Reduction
14:10-14:20	GPC Paper NO.7476	Nonlinear optimization method for PGC demodulation of interferometric fiber-optic hydrophone
14:20-14:30	GPC Paper NO.7953	A Novel Weighted-Distance Centralized Detection Method in Passive MIMO Radar
14:30-14:40	GPC Paper NO.9490	Deep Learning-based Autonomous cow detection for smart livestock farming
14:40-14:50	GPC Paper NO.6489	Ranging of Confocal Endoscopy Probe Using Recognition and Optical Flow Algorithm

14:50-15:00 Tea break

15:00-17:00 ICPCSEE Oral Session and POST 2-2

Chair: Xiaoou Ding (Harbin Institute of Technology, China)

15:00-15:10	ICPCSEE Paper NO.9813	AM-PSPNet: Pyramid Scene Parsing Network based on Attentional Mechanism for Image Semantic Segmentation
15:10-15:20	ICPCSEE Paper NO.7913	TU-Net: U-shaped Structure based on Transformer for Medical Image Segmentation
15:20-15:30	ICPCSEE Paper NO.6061	An Efficient Code-Embedding-Based Vulnerability Detection Model for Ethereum Smart Contracts
15:30-15:40	ICPCSEE Paper NO.0644	Analysis Method of App Software User Experience Based on Multisource Information Fusion
15:40-15:50	ICPCSEE Paper NO.4571	Automatic Generation Of Graduation Thesis Comments Based on Multi-Level Analysis
15:50-16:00	ICPCSEE Paper NO.9528	Adaptive Chinese Pinyin IME for Most Similar Representation
16:00-16:10	ICPCSEE Paper NO.6873	Research and Application of Warship Multi-attribute Threat Assessment Based on Improved TOPSIS Gray Association Analysis
16:10-16:20	ICPCSEE Paper NO.2355	Data Hiding in the Division Domain: Simultaneously Achieving Robustness to Scaling And Additive Attacks
16:20-16:30	ICPCSEE Paper NO.0602	Preliminary Study on Adapting ProtoPNet to Few-Shot Learning using MAML
16:30-16:40	ICPCSEE Paper NO.2025	Collaborative Learning Method for Natural Image Captioning
16:40-16:50	ICPCSEE Paper NO.7830	Kalman Filter-Based Differential Privacy Federated Learning Method
16:50-17:00	ICPCSEE Paper NO.9854	Meeting Report: Modeling and optimization of multi-model waste vehicle routing problem based on time window



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