

6th EAI International Conference on 6G for Future Wireless Networks

October 7-8, 2023, Shanghai, China

EAI 6GN 2023

Conference Program

Organized by
School of Electronics Information
Shanghai Dianji University



上海电机学院建校70周年
The 70th Anniversary of
Shanghai DianJi University



Welcome Message from the General Chairs

Welcome to the 6th EAI International Conference on 6G for Future Wireless Networks (6GN) held from October 7th to October 8th 2023 at Shanghai City of P.R.China. On behalf of the Organizing Committee of 6GN 2023, we would like to express our sincere and warm welcome to all participants! EAI 6GN 2023, conference is the sixth edition of the International Conference on key technology enablers for 5G/B5G/6G and other wireless networks.

With the pace of the conference, today we came to Shanghai Dianji University. Shanghai Dianji University is a public university which is focused on the cultivation of students with strong practical skills, and the key specialty is engineering. Shanghai Dianji University adheres to the “Technology-Centered, Application-Oriented” educational ideology. Shanghai Dianji University commit to cultivating “Excellent Field Engineers” with solid technical theory foundation and strong technical practical ability, who can be engaged in technical application, technical management and technical service in the production line.

The promotion and popularization of the fifth generation (5G) technology has become a symbol of The Times in the telecommunications industry. Enhanced mobile broadband (eMBB), Ultra-reliable & Low Latency Communication (uRLLC), and Massive Machine Type of Communication (mMTC) are no longer long-term goals in the eyes of scholars, but practical technologies in the hands of engineers. Taking this opportunity, this conference will further research and discuss the Power and Energy Systems, Communications Systems and Networking, Computer Systems and Applications and other aspects. We look forward to the full two-day program, which includes many productive discussions and demonstrations, can contribute to the future of 5G/B5G/6G communications and networks.

For the successful organization of an international conference of this size and diversity, we counted on the great support of many people and organizations. We would like to sincerely thank the EAI and 6GN Steering Committee, Organizing Committee for giving us the opportunity to organize the conference and for their support and guidance. We would like to express our appreciation to all invited speakers for offering wonderful speeches.

We thank all of you for participating in 6GN 2023. We sincerely hope 6GN 2023 can stimulate your innovation and future research and play as a platform for your professional activities.

General chair:



Welcome Message from the TPC Chairs

The 6th EAI International Conference on 6G for Future Wireless Networks (6GN 2023) will be held from October 7th to October 8th 2023 at Shanghai City, P.R. China. Firstly, we would like to express our great welcome and thank to all the participants. Welcome to Shanghai, a city full of culture and enthusiasm.

As we all know, the promotion and popularization of the sixth generation (6G) technology has become a symbol of The Times in the telecommunications industry. But that's never the end, the following B5G/6G will drive another wave of new trends, not only to optimize the spectrum and spatial bandwidth, but also to create more new technologies and applications, such as Taking this opportunity, this conference will further research and discuss the Power and Energy Systems, Communications Systems and Networking, Computer Systems and Applications. Moreover, the opportunities and challenges of 5G/B5G/6G are continuing to attract the attention of academics, industries, and governments. EAI 6GN 2023 provides high quality original research papers describing recent and expected challenges or discoveries along with potential intelligent solutions for 5G/B5G/6G.

Now, we'd like to announce that the keynote speakers of this year are: Prof. Cesar Briso, (Technical University of Madrid, SPAIN), Prof. Peng Chen, (Southeast University, China) and Prof. Jingchao Li (Shanghai Dianji University, China). We received 173 papers. After being reviewed by scholars organized by the Technical Committee, we selected 64 papers from universities and research institutions such as Shanghai Dianji University, Kanagawa University, and Harbin Engineering University. The acceptance rate was 37%, and the final registered paper was 60 articles with a registration rate of 93.8%. The papers cover multiple technical fields such as D2D Communication for 6G Networks, Power and Energy Systems, Security and Privacy for 6G Networks, and Intelligent Systems.

The technical program team did an excellent job in soliciting submissions, coordinating the review process, and promoting the technical program. We would like to thank every one of them for taking leadership roles in organizing the various aspects of the technical program.

Also we would like to express our thanks to all members of the organizing committee and all the volunteer reviewers who have been working hard days and nights for this conference.

Technical Program Committee Chairs:



Prof. Yudong Zhang



Prof. Peng Chen



Prof. Jingchao Li

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Program Schedule of 6GN 2023 (October. 7-8, Shanghai Dianji University, Shanghai)**Day 0 (October. 6): Registration**

13:00-20:00	School of Electronic Information Building, Shanghai Dianji University
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Day 1 (October. 7): Keynotes and Technical Sessions

Opening & Keynotes - Room 330, Administration Building, Shanghai Dianji University			
09:00-09:30	Opening		
09:30-09:45	Photo together for attendees		
09:45-10:00	Coffee Break		
10:00-11:30	Keynote I: Cesar Briso Keynote II: Peng Chen Keynote III: Jingchao Li		
11:45-12:45	Lunch—Floor 2, Second Restaurant		
Regular Sessions – Floor 5, School of Electronic Information Building			
	Room A	Room B	Room C
14:00-15:40	<i>S1: Intelligent Systems</i>	<i>S2: Big data mining, D2D Communication, Security and Privacy for 6G Networks</i>	<i>S9: Computer Systems and Applications</i>
15:40-16:00	Coffee Break		
16:00-17:30	<i>S3: Artificial intelligent techniques for 6G Networks</i>	<i>S4: Power and Energy Systems I</i>	<i>S9: Computer Systems and Applications</i>
18:00-19:30	Banquet—1199 Huanhu West Third Road, Lingang New City, Nanhui New Town, Pudong New Area, Shanghai		

Day 2 (October. 8): Technical Sessions

Regular Sessions – Floor 5, School of Electronic Information Building			
	Room A	Room B	Room C
9:00-10:00	<i>S5: Image, Video, and Signal Processing</i>	<i>S6: Power and Energy Systems II</i>	<i>S10: Power and Energy Systems III</i>
10:00-10:10	Coffee Break		
10:10-11:40	<i>S7: Power and Energy Systems III</i>	<i>S8: Communications Systems and Networking & Control and Automation Systems</i>	<i>S10: Power and Energy Systems III</i>
11:40-12:30	Lunch—Room 201, School of Electronic Information Building		

◆ Keynote Speakers



Cesar Briso

Title: A Connected Sky: 6G Communications for UAVs

Cesar Briso is full professor and director of the Radiocommunications Group at the Technical University of Madrid, SPAIN. He has a 30-year research trajectory, initially focused on the study and design of circuits and systems of high frequency and radar, and in the last 20 years he has focused on the design and development of wireless communications for transportation systems, especially focused on high speed trains, metropolitan railways and Unmanned aerial Vehicles. On

2010 he started working on wide band channel critical communications using 5G. On this topic he has done relevant research on the last years, making several scientific publications and collaborations with international experts of Europe, China and USA. He has managed 23 national and international research projects and hold two patents on critical communications for transportation systems. Now he is working on the project: "Next Generation Train Communications Systems", inside the Chinese program "The Belt and the Road". He is also author of 40 journal papers and has participated on more than 60 international congresses. He has been editor of 6 Special Issue and 2 books on wireless communications for transportation. He has received 4 National prizes for his research.



Peng Chen

Title: Efficient DOA Estimation Method for Reconfigurable Intelligent Surfaces Aided UAV Swarm

In recent years, Prof. Peng Chen has undertaken or participated in 12 national and provincial projects, published 30 SCI-indexed papers (2 ESI highly cited papers), and been granted 10 patents. He is currently an IEEE Senior Member and a CIE Senior Member. He serves as a guest editor for SCI journals, and as a reviewer for many international renowned journals including IEEE TSP, IEEE TWC, and IEEE TVT.

He has also served as an IEEE ICCC Session Chair, was recognized as an exemplary reviewer for IEEE WCL in 2021, and won the Best Paper Award at IEEE ICCCCEE 2017. He was invited as a keynote speaker at the IEEE ICET International Academic Conference in 2022, won the Best Presentation Award at the IEEE ICCC Conference in 2022, and was selected as a Science and Technology Vice President of Jiangsu Province's High-level Talent Program in 2019. In 2021, he published the monograph "Optimization and Target Location Method of New Regime Radar", won the third prize of the Jiangsu Science and Technology Award (ranked 2nd), and obtained the Jiangsu Province Excellent Young Scientists Fund in 2022.



Jingchao Li

Title: Physical layer authentication method for the Internet of Things based on radio frequency signal gene characteristics

Jingchao Li is a professor at School of Electric Information, Shanghai Dianji University, China. In recent years, she has led over 14 technology projects, published over 30 SCI-indexed papers (1 ESI highly cited papers), and been granted over 6 patents. She is currently an EAI Senior Member. She serves as a reviewer for many international renowned journals including IEEE T RELIAB, RELIAB ENG SYST SAFE, and ENRG CONVERS MANAGE. She has also served as a Technical Program Committee Member for INFOCOM MobiSec 2023 and an ICEICT 2019 Session Chair, and won the Best Paper Award at ICEICT 2019. She published two academic monographs. She has won the first prize of Energy Innovation Award of China Energy Research Society, and the third prize of the Shanghai Science and Technology Award. She has obtained the National Natural Science Foundation of China in 2017 and 2021, and Natural Science Foundation of Shanghai in 2022 and Shanghai Rising-Star Program in 2023. And obtained Shanghai Oriental Scholar in 2022.

◆ Sessions

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Details

S1

14:00-15:40 (Sat. 7 October 2023)

Location: ROOM A, School of Electronic Information Building

Title: Intelligent Systems

Chair: Li Ming

2D Map Generation Considering 3D Spatial Information of Objects for a Guide Dog Robot

No.330799

Aoki Toya, Zhang Bin, Lim Hun-Ok

(Kanagawa University)

Development of an Image Generation System for Expressing Auditory Environment to Hearing-impaired People

No.333365

Aoki Toya, Zhang Bin, Lim Hun-Ok

(Kanagawa University)

Robust Object Recognition and Command Understanding for a House Tidying-up Robot

No.331667

Zhang Bin, Wang Junyan, Lim Hun-Ok

(Kanagawa University)

3D Point Cloud Based Object Recognition and 3D Mapping

No.332618

Ren Congzhi, Zhang Bin, Lim Hun-Ok

(Kanagawa University)

Improved War Strategy Optimization Algorithm Based on Hybrid Strategy

No.333358

Li Jiacheng, Noto Masato, Zhang Yang

(Kanagawa University)

Intelligent Inspection System of Coal Preparation Plant Based on Dynamic QR Code

No.334807

Wu Zhipeng, Xu Xuefei, Gao Yang, Liang Xin, Cai Cheng

(Shanghai Dianji University)

On The Construction of Information Management System for Railroad Grouping Station Operation

No.334808

Nie Yufei, Xu Xuefei, Cai Cheng

(Shanghai Dianji University)

Research on short term power load forecasting based on Wavelet and BiLSTM

No.336205

Liao Rongyang, Ren Juhui, Ji Chunlei

(Shanghai Dianji University)

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S2

14:00-15:40 (Sat. 7 October 2023)

Location: ROOM B, School of Electronic Information Building

Title: Big data mining, D2D Communication, Security and Privacy for 6G Networks

Chair: Chen Zhimin

Spectrum Allocation Algorithm based on Improved Chimp Optimization Algorithm

No.334123

Huo Xingdong, Li Kuixian, Jiang Hang

(Harbin Engineering University)

Research on Model Evaluation Technology Based on Modulated Signal Identification

No.334504

Yang Songlin, Wang Mengchao, lin yun

(Harbin Engineering University)

Parking space matching and path planning based on Wolf feeding decision algorithm in large underground garage

No.331740

Dou Nan, Lian Zhigang, Guo Chunlei

(Shanghai Dianji University)

Research on physical layer authentication method of internet of things based on contour stellar images and convolutional neural network

No.331780

Lu Ying, Li Jingchao, Ying Yulong, Zhang Bin

(Shanghai Dianji University)

Double IRS-Aided Dual-function Radar and Communication System

No.334709

Chen Zijia, Yang Liu, Zhao Ying, Zhang Tiancheng

(Shanghai Dianji University)

Channel Estimation for RIS Communication System with Deep Scaled Least Squares

No.334711

Zhang Tiancheng, Yang Liu, Zhao Ying, Chen Zijia

(Shanghai Dianji University)

Algorithmic protection study based on a Virtual Location

No.336206

Wen Zehui, Zhu Yiqun

(Shanghai Dianji University)

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S3

16:00-17:30 (Sat. 7 October 2023)

Location: ROOM A, School of Electronic Information Building

Title: Artificial intelligent techniques for 6G Networks

Chair: Sui Tingting

Subway Double-door Anti-pinch Based On RGBD Binary Classification Network.

No.331741

Guo Chunlei, Yang Junjie, Sui Zhicheng, Dou Nan

(Shanghai Dianji University)

Design and Implementation of Intelligent IoT Paper Pumping System Based on Face Recognition of Loongson Processor

No.333139

Hou Yichen, Wang Tingjun, Zhang Zhenyu, Chen Zheyi

(Shanghai Dianji University)

Aluminum Defect Detection based on Weighted Feature Fusion Mechanism

No.333183

Sui TingTing, Wang JunWen, Wang YuJie, Yang JunJie, Xu ZiHan, Zou YiWen, Zhong YiKai

(Shanghai DianJi University)

MS TextSpotter An Intelligent Instance Segmentation Scheme for Semantic Scene Text Recognition in Asian Social Networks

No.333184

Zhong Yikai, Zhang Heng, Liu Yanli, Qian Qiang, Wang Junwen

(Shanghai Dianji University)

Improved solar photovoltaic panel defect detection technology based on YOLOv5

No.333337

Teng Shangxian, Liu Zhonghua, Luo Yichen, Zhang Pengpeng

(Shanghai Dianji University)

YOLO-L:A YOLO-BASED ALGORITHM FOR REMOTE SENSING IMAGE TARGET DETECTION

No.334793

Wang Yinghe, Liu Wenjun, Wu Jiangbo

(Shanghai Dianji University)

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S4

16:00-17:30 (Sat. 7 October 2023)

Location: ROOM B, School of Electronic Information Building

Title: Power and Energy Systems I

Chair: Zhang Pengpeng

An effective N-BEATS network model for short term load forecasting

No.330179

Tan Chang, Yu Xiang, Lu Lihua, Zhao Lisen

(Shanghai Dianji University)

A Novel Ultra Short-Term Load Forecasting Algorithm of a Small Microgrid

No.333349

Based on Support Vector Regression

Liu Lin

(Shanghai Dianji University)

Laser welding process of lithium battery lugs based on finite element simulation

No.335880

Ren Tianpeng

(Shanghai Dianji University)

Failure and Stress Analysis of Cylindrical Springs

No.335955

Sun Mingze, Guo YanBin

(Shanghai Dianji University)

Detection of Corrosion Areas in Power Equipment Based on Improved YOLOv5s Algorithm with CBAM Attention Mechanism

No.335976

WenSun

(Shanghai Dianji University)

Details

S5

9:00-10:00 (Sun. 8 October 2023)

Location: ROOM A, School of Electronic Information Building

Title: Image, Video, and Signal Processing

Chair: Li Jiandun

Detection of Green Walnuts on Trees Using the Improved YOLOv7 Model

No.330627 He Jinrong

(Yan'an University)

Disease Recognition of Plants Leaves in Northern Shaanxi based on Siamese Networks

No.331611 He Jinrong, Zhang Jiayi, Sun Yani, Yang Li

(Yan'an University)

Application of MED-TET to feature extraction of vibration signals

No.333086 Shan Ningfeng, Jiang Chao, Mao Xuefeng

(Shanghai Dianji University)

A NOVEL PHASE CONGRUENCY-BASED IMAGE MATCHING METHOD FOR HETEROGENOUS IMAGES

No.333252 Li Donghua

(Shanghai Dianji University)

Design of Image Based Optical Flow Tracking and Positioning System in Intelligent Assembly

No.333253 Wang Su

(Shanghai Dianji University)

A Review of Image and Point Cloud Fusion in Autonomous Driving

No.333334 Wang Xiaoya, Zhang Pengpeng, Dou Mengshen, Tian Shuhao

(Shanghai Dianji University)

Deep learning in strawberry growth monitoring research: A review

No.333335 Tian Shuhao, Zhang Pengpeng, Wang Xiaoya

(Shanghai Dianji University)

Details

S6

9:00-10:00 (Sun. 8 October 2023)

Location: ROOM B, School of Electronic Information Building

Title: Power and Energy Systems II

Chair: Wang Haijun

TASE-net: a short-term load forecasting model based on Temperature

Accumulation Sequence Effect

No.329723

Zhao Lisen, Lu Lihua, Yu Xiang, Qi Jing, Li Jiangtao

(Shanghai Dianji University)

Predicting time series energy consumption based on Transformer and LSTM

No.329797

Wang Haitao, Li Jiandun, Liu Chang

(Shanghai Dianji University)

Predicting Wind Turbine Power Output based on XGBoost

No.329798

Liu Chang, Li Jiandun, Wang Haitao

(Shanghai Dianji University)

Loop Closure Detection Based on Local and Global Descriptors with Sinkhorn

Algorithm

No.333371

Xiao Wei, Zhu Dong

(Shanghai Dianji University)

Stainless steel crack detection based on MATLAB

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Liao Wei, Wang Yongheng, Guo Yanbin

(Electric Power Research Institute)

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S7

10:00-11:40 (Sun. 8 October 2023)

Location: ROOM A, School of Electronic Information Building

Title: Image, Video, and Signal Processing & Software Engineering

Chair: Sui Tingting

Stepwise Change and Refine Network for Human Pose Transfer

No.330782 Mo Han, Xu Yang, Peng Youju, Xu Guidong
(Guizhou University)

Performance Analysis of Web Server side Reactive Programming

No.331613 Guo Xu, Li Haojie
(Shanghai Dianji University)

Improved Sparrow Search Algorithm Optimized Neural Network Analysis Of Traffic Congestion

No.332917 Lu Banban, Lian Zhigang
(Shanghai Dianji University)

Industrial Noisy Speech Enhancement Using Joint Time-Frequency Loss Function Based on U-Net

No.332918 Qin Rongxin, Lian Zhigang
(Shanghai Dianji University)

Multiple Color Feature and Contextual Attention Mechanism based on YOLOX

No.333336 Shan Shuaidi, Zhang Pengpeng, Wang Xinlei, Teng Shangxian, Luo Yichen
(Shanghai Dianji University)

Quantitative Analysis on Coin Flipping Protocol

No.333351 Guo Xu
(Shanghai Dianji University)

Details

S8

10:00-11:40 (Sun. 8 October 2023)

Location: ROOM B, School of Electronic Information Building

Title: Communications Systems and Networking & Control and Automation Systems

Chair: Zhang Pengpeng

Research on Cost Optimization of UAV Network Routing Protocol Based on OLSR Protocol

No.331614

Xu Zhenyu, Li Xinlu, Xu Dawu

(Huizhou Engineering Vocational College)

A Lightweight Fault Diagnosis Model of Rolling Bearing Based on Gramian Angular Field and EfficientNet-B0

No.332169

Dai Yingyu, Li Jingchao, Ying Yulong, Zhang Bin

(Shanghai Dianji University)

ISAC Device-free Sensing Method for V2V System

No.333077

Yu Feiqiao, Chen Zhimin, Li Minzheng

(Shanghai Dianji University)

Fuzzy sliding mode trajectory tracking control for omnidirectional mobile robots based on exponential convergence law

No.334067

Ding Ruiao, Ji Chunlei, Zeng Xiangxu

(Shanghai Dianji University)

Image Classification Method Base on Contrastive Learning

No.334068

Cao Junye, Chi Dongxiang, Han Jingxuan

(Shanghai Dianji University)

Research on RFID Indoor Localization Algorithm Based on Virtual Tags and Fusion of LANDMARC and Kalman Filter

No.334796

Wu Jiangbo, Liu Hong, Liu Wenjun

(Shanghai Dianji University)

Details

S9

14:00-15:40, 16:00-17:30 (Sat. 7 October 2023)

Location: ROOM C, School of Electronic Information Building

Title: Computer Systems and Applications

No.332395	<u>Research on Information Literacy Teaching of Library MOOC based on Constructivism</u> Liu Ping (Harbin University of Science and Technology Libary)
No.337448	<u>Research on Smart Library System Based on Big Data</u> Liu Ping (Harbin University of Science and Technology Libary)
No.333317	<u>Smoke segmentation method based on super pixel segmentation and convolutional neural network</u> Wang Chengkun, Zhang Jinqiu, Yang Jiale, Feng Kaiyue (Heilongjiang University of Science and Technology)
No.334646	<u>Research on Distributed Routing Technology for LEO Satellite Network</u> Yin Zhongyu, Zhang Cheng, Wang Xi, Shi Shuo (Harbin Institute of Technology)
No.334801	<u>Analysis of Weld Pool Characteristics in Narrow Gap GTAW Welding Based on Passive Vision</u> Li Zehao (Shanghai Dianji University)

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9:00-10:00, 10:10-11:40 (Sun. 8 October 2023)

Location: ROOM C, School of Electronic Information Building

Title: Power and Energy Systems III

A new combination model for offshore wind power prediction considering the number of climbing features

No.333263 Yin Lei, Du Weian, Leng Peng, Miao Xiaoyan, Yang Xiaodong, Zhao Zhiyuan, Lv Jinrui, Shi Shuai, Zhang Hao
(Clean Energy Branch of Huaneng (Zhejiang) Energy Development Co. LTD)

Fault Diagnosis Method of Gas Turbine Combustion Chamber Based on CNN-GRU Model Analysis

No.334751 Wang Xinyou, Ying Yulong
(Shanghai University of Electric Power)

Research on Key Intelligent System in Unmanned Surface Vessel

No.334755 Li Yongguo, Li Xiangyan, Xu Caiyin, Tang Xuan
(Shanghai Ocean University)

Simulation research on thermal management of hydrogen fuel cell for UAV

No.334832 Fan Yi, Chang Zixuan, Jiang Weiting, Zhang Jiakai, Zhang Jingkui
(Shanghai University of Electric Power)

Performance analysis on a coupled system of gas turbine and air cycle driven by waste heat of flue gas

No.334833 Fan Yi, Zhang Jingkui, Zhang Jiakai, Qiu Zhongzhu, Zheng Puyan, Yan Wen
(Shanghai University of Electric Power)

◆ Organization

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