2024 IEEE CISOSE & IEEE FTS Held in Shanghai

Official Launch of the IEEE AI Industry Standards Alliance

Fremont, California Aug 13, 2024 (Issuewire.com**)** - (IEEE CISOSE & IEEE FTS Organizing Committee) From July 15 to 18, 2024, the 2024 IEEE International Congress on Intelligent and Service-Oriented Systems Engineering (IEEE CISOSE) and the 2024 IEEE Future Technology Summit (IEEE FTS) were grandly held at the Minhang Campus of Shanghai Jiao Tong University, China. This event was co-organized by the Institute of Electrical and Electronics Engineers (IEEE), the IEEE Computer Society, and the Shanghai Institute for Advanced Study of Zhejiang University, with support from the IEEE CISOSE Board, the IEEE Future Technology Summit Organizing Committee, and Pacific View Media.

Honorary Chairs of the 2024 IEEE CISOSE & IEEE FTS Series Conference

- **Academician Yunhe Pan**: Expert in computer applications and artificial intelligence, Chinese Academy of Engineering.
- **Academician Vincenzo Piuri**: IEEE Fellow, ACM Distinguished Scientist, and Professor at the University of Milan, Italy.
- **Professor David Cai**: Blockchain expert, lifetime honorary professor at Arizona State University, USA, and professor at Fuzhou University.

IEEE CISOSE, tracing its roots back to the IEEE SOSE conference founded by Professor Wei-Tek Tsai in 2006, has evolved significantly over the past 18 years, expanding its research fields. The IEEE CISOSE series, established in 2017 in Silicon Valley, has since been successfully held in various

countries, including the USA, Germany, the UK, and Greece. In 2024, IEEE CISOSE returned to China under the leadership of Professor Jerry Gao, Chair of the Steering Committee, completing the full agenda in Shanghai.

Chair of the IEEE CISOSE Steering Committee:

- **Professor Jerry Gao**: Director of the Department of Computer Engineering and Applied Data Science, San Jose State University.

2024 IEEE CISOSE Conference Executive Chairs:

- **Professor Wen Wu**: Zhejiang University, China.
- **Professor Hiroyuki Sato**: University of Tokyo, Japan.

Academician **Huai-Min Wang** of the Chinese Academy of Sciences has attended the event this year. Along with IEEE Fellow, Professor **Guan Xinping**, Deputy Dean of Scientific Research at Shanghai Jiao Tong University and Dean of the School of Electronic Information and Electrical Engineering, served as the keynote speaker for the opening of the conference. Professor **Vincenzo Piuri** delivered a speech on "The Application of Artificial Intelligence in Biometric Technology and Systems." Professor **Li Xiaoli** delivered a speech titled "Driving Real-World Changes with Big Data and Machine Learning." Professor **Jin Hai** delivered a speech titled "Understanding Computable Networks: A Distributed Systems Perspective."

Other notable speakers included:

- **Professor Taghi M. Khoshgoftaar**: Florida Atlantic University, USA.
- **Professor Roberto Tonelli**: University of Cagliari, Italy.
- **Chen Yuxiang**: IBM Distinguished Engineer, Greater China Customer Success Architect, and Chief Architect for the Financial Industry in Greater China.
- **Professor Fu Xu**: Beijing Forestry University, China.

IEEE Fellows and Key Contributors:

- **Professor Hai Jin**: IEEE Fellow, Vice President of the China Computer Federation, and professor at the School of Computer Science and Technology, Huazhong University of Science and Technology.
- **Professor Li Xiaoli**: IEEE Fellow, Head of the Machine Intelligence Recognition Department, Institute for Infocom Research, Singapore.
- **Professor Roberto Tonelli**: University of Cagliari, Italy.

At the conference, IEEE DAPPS Chairpersons Zhang Kaiwen and Zhu Xiaojie presented Professor Roberto Tonelli from the University of Cagliari, Italy, with the keynote speech certificate.

Keynote Speeches by Professors and Industry Experts

- **Professor Xu Jie**（left）: Head of the Department of Computer Science, University of Leeds, UK and Director of the UK White Rose Network Electronic Science Center.
- **Professor Wei-Tek Tsai**(center): Lifetime Honorary Professor at Arizona State University, USA, and Professor at Fuzhou University.
- **Professor Hong Zhu**(right): Oxford Brookes University, UK.

The conference featured three panel topics: "GenAI, Future Directions," "Sustainable AI: Pursuing Computational Efficiency and Environmental Harmony," and "The Ethical, Social, and Policy Impacts of AI." Over 20 industry experts engaged in these discussions.

Professional tutorials included:

- "Testing and Automation of Intelligent Computer Vision and Applications" by Professor Jerry Gao.
- "Data Morph Testing: Principles, Tools, and Applications of Machine Learning" by Professor Hong Zhu.

Highlights of This Conference: IEEE FITYR 2024

This year marked the successful launch of the first youth innovation-themed symposium under IEEE CISOSE 2024 (International Conference on Intelligent Systems and Services Engineering), named IEEE FITYR 2024. The event aims to provide a global platform for young scholars to exchange ideas and explore the endless possibilities of future intelligent technologies.

Successful Inaugural IEEE FITYR 2024 Youth Innovation Symposium Held in Shanghai

Jointly initiated by the Zhongguancun Forum Operating Organization—Zhongguancun International Conference and Exhibition Operation Management Co., Ltd.—and the IEEE (Institute of Electrical and Electronics Engineers), IEEE FITYR 2024 attracted young research teams from various universities worldwide to share their latest research achievements and practical experiences in the field of future technologies.

The symposium was chaired by distinguished academic experts, including Professor Ren Nanqi, an academician of the Chinese Academy of Engineering, and Professor Tang Yuanyan, an IEEE Fellow. The expert review panel comprised renowned researchers, leaders in technology fields, distinguished university professors, and experts from Fortune 500 company research institutes. These esteemed guests provided professional reviews and suggestions to the participating young research teams, helping them broaden their research scope, deepen their research directions, and discover new research outcomes.

Two major awards were presented at the symposium. Yifan Yin from Ocean University of China won the "Best Paper Award" for his outstanding research, while Yanlong Han from Northwestern Polytechnical University received the "Best Presentation Award" for his excellent performance on-site.

During the symposium's carefully arranged experience-sharing session, young representatives from cutting-edge technology fields such as remote sensing technology, the BeiDou system, and bioengineering applications took the stage to share their research experiences and achievements. They engaged with in-depth exchanges with the experts and scholars present. The experts generously shared their practical experiences in identifying research directions, overcoming obstacles, and finding solutions, providing valuable guidance and inspiration to young scholars, fostering the inheritance of experience and the stimulation of innovation.

Zhongguancun International Convention and Exhibition Company and IEEE Sign Strategic Cooperation Agreement

At the closing of the conference, Zhongguancun International Convention and Exhibition Company and IEEE signed a strategic cooperation agreement. Both parties expressed their intention to leverage their respective resources and advantages in the future, sharing effective cooperative resources, and jointly planning and organizing international academic conferences and cutting-edge technology competitions. This collaboration aims to provide a high-end, open exchange platform for young scholars worldwide, stimulate innovative thinking among youth, and promote academic exchange and cooperation. Additionally, both parties will focus on advancing and implementing AI standardization through cooperative research, standard formulation, and promotion, accelerating the standardization process of AI technology and laying a solid foundation for the popularization and application of intelligent technology.

IEEE AI Industry Standards Alliance Announcement at IEEE CISOSE and IEEE FTS

In a significant development at this year's IEEE CISOSE (International Conference on Intelligent Systems and Services Engineering) and IEEE FTS (Future Technology Summit), IEEE announced the establishment of the IEEE AI Industry Standards Alliance. The formal launch symposium was chaired by Conference Committee Chair Jerry Gao and Industrial Alliance Chair Jane Wu. This initiative aims to address the challenges posed by the rapid development of AI technologies and applications by establishing clear quality standards and certification systems for AI technology development, fostering the healthy growth of the global AI industry.

Conference Organizing Committee Chairman Jerry Gao (right) and Industrial Alliance Chairman Jane Wu (left) Presided Over the Official Launch Seminar of the IEEE Industrial Standards Alliance

With the rapid advancement of AI technology and smart applications, clear quality standards and certification systems have become a pressing industry need. The current lack of a universal AI standards system has made quality assessment of various AI algorithms and application systems difficult. Objective verification of AI system intelligence levels and automated management and regulation of their application scenarios and outcomes are crucial. Effective evaluation standards and quality certifications are essential to ensuring the reliability, safety, and human-centric nature of AI systems. Furthermore, existing standards systems are inadequate to meet the demands of AI's cross-company, cross-industry, and cross-regional development.

The IEEE AI Industry Standards Alliance will be established as a non-profit organization with members

and business units globally, benefiting AI participants worldwide. The alliance will create a global AI quality standards conference and community, with regional centers located in AI development hotspots. Through a global service platform, top experts will collaborate closely with leading industry solution providers and industry leaders to develop, validate, establish, and promote AI system quality standards, enhancing the intelligence, reliability, safety, and fairness of machine learning models and AI applications.

To better cover and regulate different application areas of AI technology, the IEEE AI Industry Standards Alliance will establish specialized committees in several key areas:

- **AI Test Automation**: Developing and standardizing AI test automation technology to ensure AI system reliability and performance.
- **Chatbots**: Standardizing chatbot technology to enhance natural language processing and user interaction experiences.
- **Smart Cities/Surveillance**: Setting standards for smart cities and surveillance systems to promote urban intelligence and safety management.
- **Smart Grid/Green Energy Cloud**: Advancing the standardization of smart grids and green energy cloud computing to support sustainable energy development.
- **Intelligent Drones**: Standardizing intelligent drone technology to improve drone intelligence and application levels.
- **EV/Smart Transportation**: Establishing standards for electric vehicles and smart transportation systems to drive transportation intelligence and environmental protection.
- **Smart Agriculture**: Standardizing smart agriculture technology to enhance agricultural productivity and sustainability.
- **Semiconductors**: Promoting standardization in the semiconductor industry to support AI hardware technology development.
- **Infrastructure and Tools**: Standardizing AI infrastructure and tools to ensure efficient AI system development and deployment.

The IEEE AI Industry Standards Alliance will engage in extensive global promotion and outreach activities, including high-end forums, technical workshops, and training courses, to raise industry awareness and emphasize the importance of AI standardization. The alliance will also regularly publish technical reports and standards guidelines, providing companies and research institutions with the latest standard information and technical support, facilitating the orderly and standardized development of AI technologies. Through the establishment of this alliance, IEEE not only lays a solid foundation for the development of the global AI industry but also creates endless possibilities for the intelligent society of the future. We look forward to more industry partners joining the IEEE AI Industry Standards Alliance to collectively create a bright future for artificial intelligence.

Important Agenda：2024 IEEE Future Technology Summit (IEEE FTS)

The 2024 IEEE Future Technology Summit (IEEE FTS) focused on "Intelligent Technology Promoting Sustainable Development" with keynote speeches from prominent figures such as:

- **Professor Guan Xinping**: School of Electronic Information and Electrical Engineering, Shanghai Jiao Tong University.
- **Professor Li Xiaoli**: Institute for Infocomm Research, Singapore.
- **Professor Jin Hai**: Huazhong University of Science and Technology.
- **Associate Professor Ronjon Nag**: Department of Genetics, Stanford University School of Medicine.
- **Professor Xu Jie**: University of Leeds.
- **Professor Hong Zhu**: Oxford Brookes University.
- **Professor Jerry Gao**: San Jose State University.
- **Professor Wu Fei**: Shanghai Institute for Advanced Studies, Zhejiang University.
- **Meng Fanjing**: CTO of IBM China Systems Development Laboratory.

This year, the IEEE Future Technology Summit (FTS) has chosen to spotlight the theme "Intelligent Technologies for Sustainable Development." The summit will feature in-depth discussions and presentations on ten cutting-edge topics:

- Future AI Technologies and Intelligence: Predictions and Trends
- Big Data and Intelligence in Future Smart Cities
- Automated Testing and Quality Assurance of Intelligent Systems
- Big Data and Intelligence in Smart Agriculture
- Intelligent Machines, Cloud Computing, and Intelligence
- Climate Change, Green Technology, and Sustainable Development
- Next-Generation Connectivity and Intelligence

AI Technology Investment Forum

At this year's IEEE Future Technology Summit (FTS), a spotlight event was the AI Technology Investment Forum. Chaired by Summit Industrial Alliance Chair Jane Wu, the forum featured distinguished experts from various sectors, including **Dr. Wang Bingfu**, the "Father of 5G"; **Professor Chen Deji**, Fellow of the International Society of Automation; and **Jeff Lin**, Founder of iGlobe Partners in Singapore.

The forum facilitated in-depth and forward-looking discussions on the latest trends in AI technology, current investment hotspots, and opportunities in high-quality projects. Attendees gained invaluable insights and experiences from the participating experts.

IEEE Future Technology Summit 2024 Highlights AI Technology Investment Forum

The IEEE Future Technology Summit (FTS) 2024 featured a highly anticipated AI Technology Investment Forum, chaired by Summit Industrial Alliance Chair Jane Wu. The forum brought together leading experts from the industry and investment sectors, including Dr. Wang Bingfu, the "Father of 5G"; Professor Chen Deji, Fellow of the International Society of Automation; and Jeff Lin, Founder of iGlobe Partners.

The discussions delved into the trends in AI technology, current investment hotspots, and opportunities in high-quality projects, providing attendees with valuable insights and perspectives.

Key Highlights of the Summit:

- **Future Technologies for Sustainable Development**: The summit focused on leveraging emerging technologies to advance various intelligent applications, aiming to build a sustainable, AI-driven Smart City 2.0.
- **Theme Summit Contributions**:
- **Sustainable Smart City Infrastructure**: Utilizing innovative cloud computing and big data to build resilient city infrastructure and communities.
- **Intelligent Green Production**: Promoting smart green manufacturing, technology, and agriculture.
- **Next-Generation Machine Learning Models**: Advocating for humane and intelligent solutions.
- **Safe, Clean, Green Environments**: Establishing secure and eco-friendly living conditions and communities.
- **Smart Healthcare Services**: Supporting smart medical services based on intelligent bio-computing and smart drugs and tools.

The platform facilitated connections between international experts, AI companies, and leading technology providers with local businesses, fostering collaboration and deployment opportunities.

- **Advancement in AI Infrastructure**: The summit highlighted the introduction of cutting-edge AI testing, certification, training, quality assurance, and standards innovation in China, aiming to develop AI application infrastructure and accelerate the healthy development of AI scenarios.

The IEEE Future Technology Summit is not just a venue for technical exchange but a stage for intellectual engagement, innovation showcase, and a preview of future trends.

Founded in Silicon Valley, the IEEE Future Technology Summit has become a premier global technology event over its seven-year history. It brings together international leaders in intelligent technology, high-level government officials, global experts, entrepreneurs, investors, and academic researchers to explore, learn, and exchange best practices, new challenges, and future trends in intelligent solutions.

IEEE CISOSE & IEEE FTS Series Conference Announces 2025 Host City

Tucson, Arizona to Host Prestigious Event

According to Lina Yu, Executive Secretary of the IEEE CISOSE & IEEE FTS Series Conferences, the organizing committee has received multiple bids to host the 2025 IEEE CISOSE & IEEE FTS Series Conferences. After a highly competitive selection process involving presentations from professional representatives from the United States, Japan, Cyprus, and the United Kingdom, the core team of the organizing committee has announced that the 2025 series will be held in Tucson, Arizona, USA.

This decision comes after rigorous evaluations and consideration of the proposals. The committee is confident that Tucson will provide an excellent environment for the event, fostering innovation and collaboration among top experts, researchers, and professionals in the field.

For more details and updates, please visit the official websites of IEEE CISOSE and IEEE FTS.

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