

## A Message from the Conference Chairman

I am pleased to welcome you to the 2010 ASID Conference in the wonderful city of Chengdu. This year, the Conference is organized by the IEEE Beijing Section, the Xiamen University and the University of Electronic Science and Technology of China.

Over the years the ASID conference has evolved into a unique melting pot of information security and management, identification devices and their implementations, communication and network integration, and intelligent systems and their programming. In the vision of a coming age that everything in the world is networked and personal robots become as popular as personal computers, our humans will face a big challenge of identifying everything, not only in our workplaces but also in our homes. In order to take this challenge head on, we must

1. Invent smaller and smarter identification devices and systems, which map our environments into different levels of information management systems, based on new materials and technologies. By doing so, not only human beings but also personal robots can efficiently be aware of their environments. Among the scopes of ASID conferences, RFID, smart antenna arrays and advanced IC design play critical roles in this fast-growing direction.

2. Build effective communication and programming interfaces among environments, humans and personal robots. We must make the programming of computers from intelligence-intensive to labor-intensive by using natural-language-based programming languages. In ASID conferences, we are proudly leading this technical trend by combining fuzzy theory and computational verb theory into physical linguistics.

In a fully networked world, the security of information and privacy face severe threats. We must design measures of security from IC circuit level all up to system levels. The balance between high-level of security and low computational cost can be achieved by adding adaptation and intelligence into these levels. Although we have been continuously focusing these issues in ASID conferences, this year the intelligent object identification initiative emerges on the horizon.

There was overwhelming response to the 2010 ASID world wide, with a total of 153 papers submitted to the Conference. The final number of papers listed in the Proceedings and to be presented at the two-day Conference is 91.

Wish you all have good experiences and enjoyable stays in Chengdu.



Tao Yang  
Conference Chairman