

Opening Keynote



K-01

Tools, Environment, and Society

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**Abstract**

Mankind obtained enormous computing power by the invention of computers. Mankind obtained the vast power of information sharing by the invention of internet. Together with storage, sensor, and actuator technologies, ICT (Information and Communication Technology) provides us with a “new” environment with convenience and entertainment, where computers and networks are hidden and invisible to users. It also provides us with a “new” space for sharing experiences, which is typically enhanced by mobile technology. People live in multiple shared spaces with others, over the distance, beyond borders, and across cultures. Such spaces are communities, and are collectively forming a “new” “global” society. How can we make such a society in a better way? Different and other kinds of technologies for making a better new global society are necessary.

**Biography**

He received Ph.D. in Electrical Engineering in 1975 from Keio University and started his academic career at Keio University and became Professor in 1991. He was a Visiting Assistant Professor at University of Waterloo in 1979 and Carnegie-Mellon University in 1980. He founded Sony Computer Science Laboratories, Inc. (Sony CSL) in 1988 and led it to become one of the world's most renowned research laboratories in a broader computer science area. He resigned from Keio University and joined Sony as Corporate Senior Vice President. In 2000 he became CTO in the area of information technology, and became Electronics Co-CTO in 2002. He

introduced an architecture-based design and development scheme for Consumer Electronics products. He resigned Co-CTO and became Senior Research Fellow in 2004 and the head of Innovation Strategy Office.

He engaged in research on computer architecture, computer networks, operating systems, concurrent object oriented programming, and multi-agent systems, and authored many technical literatures and books including “Concurrent Object-Oriented Computing (MIT Press 1987)” and “Introduction to Computing Systems (Iwanami 1988, in Japanese)”, “The Future of Learning (IOS Press 2003)”, and “Learning Zone of One’s Own (IOS Press 2004)”.