

## *Plenary Session I :*

### **Next Generation Information Networks and Applications**

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### **Biography**

Dr. Wen-Tsuen Chen is the President of the National Tsing Hua University. He has been with the National Tsing Hua University since receiving his Ph.D. degree in Electrical Engineering and Computer Sciences from University of California at Berkeley in 1976. He is currently a Distinguished Chair Professor of the Department of Computer Science. He has served as Department Chairman, Director of Computer and Communication Research Center, Dean of the College of Electrical Engineering & Computer Science, all of National Tsing Hua University, and the Vice Chancellor for Research of the University System of Taiwan, a university system consisting of four top-ranking research universities in Taiwan. He has also served as the Director of Science & Technology Advisory Office, Ministry of Education. He has consulted in various levels of Taiwan Government and was a member of many planning and technical review boards. For 14 years, Dr. Chen has been the Co-Chairman and Chairman of the Technical Evaluation Board of the Ministry of Economic Affairs for Promoting High-Tech Products and Technologies, which is recognized as most pivotal in promoting industrial technologies in Taiwan.

Dr. Chen pioneered the design of computer networks and parallel systems in early 1980s. He is currently leading a project for design and applications of advanced information networks. He has received numerous awards for his achievements in computer networking and parallel processing, including Outstanding Research Awards of the National Science Council, Academic Award and National Chair of the Ministry of Education, and Technical Achievement Award of the IEEE Computer Society. Dr. Chen was the General Chair of the 2000 IEEE International Conference on Distributed Computing Systems and the Founding General Chair of the IEEE International Conference on Parallel and Distributed Systems. He is an IEEE Fellow and a Fellow of the Chinese Society for Management of Technology.

### **Abstract**

With recent rapid progress of communications and networking technologies, the Internet has become an indispensable part of our everyday life for working, shopping, studying, and entertainment. In this speech, a brief history of the progress of information networking in the past 30 years is first reviewed. Our point of view of the future trends of information networks and applications is then described. Some of our research results on broadband wireline and wireless networks and their applications are presented.