Winners of the 1st Award for Young Teachers of the Faculty of Information Technology, ZJU

The 1st prize winner Chen Hongsheng

Dr. Chen Hongsheng is an Associate Professor with the Department of Information Science & Electronic Engineering, Zhejiang University. He is a recipient of National Excellent Doctoral Dissertation Award in China and the coauthor of more than 80 international refereed journal papers. His research works has been highlighted for many times by Nature, Nature China, and PRL editor with a viewpoint on the Physics. His research work on cloak was selected in Science Development Report as one of the representative achievements of Chinese Scientists in 2007. He serves on the Editorial Board of the Progress in Electromagnetics Research, Journal of Electromagnetic Waves and Applications, and Scientific Reports. He also serves as a regular reviewer of many international journals on electromagnetics, physics, optics, and electrical engineering. Dr. Chen is a Principal Investigator for lots of grants and contracts from various government agencies. His course on electromagnetic wave theory is rated as an excellent course by the students every year.

The 1st prize winner Pan Gang

Pan Gang received the B.S. and Ph.D. degrees in computer science from the Zhejiang University in 1998 and 2004, respectively. He has been with the College of Computer Science and Technology,

Zhejiang University, since 2004, where he is currently an Associate Professor of computer science. He has been a visiting scholar of University of California, Los Angeles, in 2007. He is a recipient of Microsoft Fellowship Award (2000), a recipient of New Century 151 Talent Program (Tier 2) of Zhejiang Province (2010), and received the third prize of Shanghai Natural Science Award (2011). His research interests include computer vision, pattern recognition, pervasive computing, and intelligent systems. Dr. Pan has published more than seventy refereed papers, and has seven patents granted. He is a Member of the Pervasive Computing Committee of the China Computer Federation. He has served as Chairs and PC Member for more than twenty international conferences, such as IEEE CPSCom'11 (PC Chair), Ubicomp'11 (Video Chair), ICCV, CVPR, and as a reviewer for more than ten international journals, such as IEEE T-PAMI, IEEE T-IP, IEEE TVCG, and PR.

The 2nd prize winner Dai Daoxin

Dai Daoxin received the B.Eng. degree from the Department of Optical Engineering of Zhejiang University in 2000 and then become a Ph. D. student in the same department. In 2004, he became an exchange Ph.D. student in the Royal Institute of Technology (KTH), Sweden, and obtained the Ph. D. degree there in 2005. Then he joined in Zhejiang University and became an associate professor in 2007. He has been qualified as a supervisor of PhD students since 2011. He has visited the Chinese University of Hong Kong (CUHK), Inha University (Korea), and the University of California at Santa Barbara (UCSB) as a visiting scholar. His current research interests include silicon micro-/nano-photonics for optical communications, optical interconnections, and optical sensing. He has published about 80 refereed international journals papers, and has received 7 patents. Dr. Dai is a recipient of the award for Outstanding Young Scientist of Zhejiang Province (in 2009), Jin-Guofan Fellowship for Young Scholars

(in 2008), the first-class Zhejiang Provincial Prize of Science & Technology (in 2007), the award for the Best Postdoctoral Research Fellow of Zhejiang University (in 2006), the first-class Financial Support from China Postdoctoral Science of Foundation (in 2005), and the first-class award of the excellent paper in Natural Science in Zhejiang Province (in 2003). He has also been selected for the 3rd level New-Century 151-Talent Program of Zhejiang Province (in 2009), the first Zijin-program from ZJU (in 2006), the first Qiang-Jiang Talent Program (in 2006), and Zhejiang Provincial Outstanding Youth Foundation (in 2008).

The 2nd prize winner Hu Huizhu

Associate Professor Hu Huizhu, born in 1979, is a member of Excellent Implementation Team of 11th Five-Year Plan of National Science and Technology, member of National Defense Science and Technology Innovative Team, who has been awarded Advanced Individual of Defense Research in ZJU, Advanced Individual of 863 Project Research, Distinguished Young Scholar in ZJU.Prof. Hu is served as course team leader and principal lecturer of undergraduate course ”Digital Signal Processing”, and has won Grade II Prize of Young Teachers Skills Competition in Dept. of Optical Eng., ZJU in 2010.Prof. Hu is served as project leader of more than ten completed and ongoing research projects, including 863 Projects, Preliminary research Funds, Natural Science Foundation of Zhejiang Province and significant horizontal projects.Prof. Hu proposed and implemented a series of key technologies with independent intellectual property rights on fiber sensor, and breakthrough technology of high dynamic range measurement, which is in a international leading position. These researches have passed several ministerial level appraisals for scientific and technological achievements, and have successfully applied to several significant tests and state key projects. He won Grade I

Prize of Military Science and Technology Progress in 2007, and has been authorized more than ten national invention patents.

The 3rd prize winner Xiong Rong

Xiong Rong, born in June 1972, Ph.D. She is the associate professor of department of control science and engineering, deputy director of Robotics Research Center of Zhejiang University, head of robotic science practice base of Zhejiang University. Her research fields include motion planning and control, mapping for unknown environment, image processing and identification in robotics. She has chaired 3 projects of the National Natural Science Foundation of China, 1 project of National 863 plan, 2 subprojects of 863 key projects, 1 project of Zhejiang Provincial Natural Science Foundation, 1 project of Shanghai World EXPO. She also has participated the 863 key project “Perception and Control of Humanoid Robot” as the chief technical backbone. She has published 30 papers including SCI / EI indexed 20 articles, 5 software copyrights and 7 patents authorized by China. The humanoid robot that she led in research and development can walk stably with a speed of 1km/h and can play ping-pong with human continuously in either quick mode or slow mode, where the highest score is 141 rounds. In addition, she took the course work of introduction of robotics and seminars for freshmen.

The 3rd prize winner Huang Jin

Huang Jin, associated Researcher, works in the area of geometric computation and physically-based simulation. He has proposed the Wave based optimization scheme, which solves some major

difficulties in quadrangulation re-meshing for complex surface model. His work in the non-linear energy based large deformation greatly improves the efficiency, controllability and quality of mesh deformation and lastic simulation. These works have been published in the top journal "ACM Transaction on Graphics" and "IEEE Transactions on Visualization and Computer Graphics". The papers are cited by others over 200 times, and get selected into the course of the top conference "ACM SIGGRAPH". The work of the students supervised by him have been published in some famous journals: "ACM Transaction on Graphics"，"Computer Aided Geometric Design" etc..

The 3rd prize winner Ma Huilian

Dr. Ma Huilian was born in Zhejiang Province, P. R. China, in March, 1975. She received her B. E. and Ph.D. degree in Electronic and Science Technology from Zhejiang University in 1997 and 2002, respectively. In 2002, she joined Zhejiang University as a Lecturer, and became an Associate Professor in 2004. She is now an Associate Professor with the Department of Information Science and Electronic Engineering in Zhejiang University. From Oct. 2007 to May 2009, she was a visiting scholar at the Prof. Hotate's Laboratory, Department of Electrical Engineering and Information Systems, The University of Tokyo, Japan, under the support of the New Star project of Zhejiang University. Her current research interests include optical sensors and optical fiber measurement. In the recent years, she focuses on the research of resonator optic gyros. The progress on the resonator micro optic gyro is the best in the world currently. She has authored and co-authored more than 50 papers in journals and conferences and 11 state invention patents. She is an active reviewer for some well-known Chinese and international academic journals, such as IEEE Photonics Technology Letters, Journal of Micromechanics and Microengineering, Japanese J of Applied Physics. She is a

member of the Optical Society of America (OSA).

The 3rd prize winner Zheng Zhenrong

Zheng Zhenrong, his current research interests include optical engineering and display, especially in freeform illumination system and image system, helmet display, head-up display, and 3D display. He has taken the responsibility for some projects, such as National Natural Science Fund Project, Major National S&T Program of China and some military projects. He do some researches about wavefront aberration of Zernike polynomial surface, and proposed an off-axis helmet system using freeform lens, also proposed a method for constructing freeform surfaces in nonimaging optics using unit tangent vectors of feature data points as constraint. He has published 50 academic papers in journals and 3 patents. He won the honor of "Science and Technology Advancement Prize" in 2005.

The 3rd prize winner Lu Xudong

Lu Xudong, born in 1973, acquired Ph.D Degree in Biomedical Engineering from Zhejiang University in 2001 and is currently associate professor in College of Biomedical Engineering & Instrumentation of Zhejiang University. Dr. Lu’s main research interests include medical informatics and artificial intelligence in medicine. During recent three years, Dr. Lu has published nearly 50 scientific papers and undertook several large projects including national 863 projects and international cooperative projects. He is responsible for one undergraduate course and one graduate course now. His major

academic contribution include: 1) Developed the leading electronic medical records system in China in 2007, which has been firstly implemented in PLA General Hospital as pilot and has been promoted to nearly 300 large hospitals up to now; 2)Carry out workflow management and process mining research in medical area firstly in China through the international cooperation with Philips and TU/e; 3) Through cooperation with Nihon Kohden Corporation of Japan, developed a number of medical information systems including Physiology information system which has been put into use in nearly 800 large hospitals in European and American hospitals.

The 3rd prize winner Li Yabo

Dr. Li received his Ph.D. degree from the University of Delaware in 2005; he joined the department of ISEE in Zhejiang University as an associate professor in Dec. 2009. During this period, he was with Nortel Networks and SiBEAM, a startup company pioneered in the millimeter-wave communications, as system performance expert and senior system engineer, respectively. Dr. Li firstly proposed the distributed space-time code design criterions for the asynchronous cooperative communications, and opened the door for the research in this area. To mitigate the erroneous feedback in the closed-loop MIMO, Dr. Li proposed an optimized design at the transmitter side. The paper is cited by an authoritative overview, which emphasizes his contribution in the closed-loop MIMO research. After Dr. Li joined Zhejiang University, he got research funding from the NSFC, the MOE New Faculty Fund and the National Science and Technology Major Project, and is conducting research on digital compensation for RF impairments, joint baseband and RF optimization, and key baseband algorithms for the next generation mobile communications, etc.. He is offering “Digital Communication” course for the graduate students.

The 3rd prize winner Tang Yongchuan

Tang Yongchuan is currently an associate professor with College of Computer Science at Zhejiang University. He received the Ph.D. degree from Southwest Jiaotong University in 2003. From 2003 to 2005 he was an assistant research fellow in computer science. From November of 2007 he began his cooperate research work with professor Jonathan Lawry in Dept. of Engineering Mathematics at University of Bristol under the 'New Star Sponsorship' of Zhejiang University. During his two year visiting in University of Bristol he was productive and proposed a prototype theory approach to vague semantics. His research interests are in the mathematical representation of uncertainty, fuzzy computing, affective computing, and the study of uncertainty in complex systems.