

Winners of Youth Innovation Awards of the Faculty of Information Technology, ZJU, 2016

Winner Yu Guanding



The researcher mainly focuses on frontier technologies of the fifth-generation wireless networks. His research contributions include designing distributed resource allocation and mode selection schemes for D2D communications, as well as developing coexistence mechanisms, intelligent mobile offloading strategies, and energy-efficient resource allocation algorithms for LTE-U systems. His papers have received more than 1900 citations while the highest one has more than 220 citations. He received the IEEE Com Soc Asia-Pacific Outstanding Young Researcher Award in 2016.

Website: <http://person.zju.edu.cn/yuguanding>.

Winner Xu Yingke

By using multidisciplinary approaches, The researcher has accomplished in the following topics: establishment of high-resolution microscopic imaging method which enables axial resolution of 40 nm in cellular imaging; integration of opt genetics with live cell imaging that permits the manipulation and visualization of the dynamics of protein molecules in cells; and development of quantitative image analysis toolkits to analyze single vesicle trafficking in live cells.

Website: <http://person.zju.edu.cn/yingkexu>.



Winner Liu Dong



The researcher focuses on optical testing and remote sensing, with special focus on accurate detection of atmospheric aerosols with lidars. He proposed to employ the field-widened Michelson interferometer (FWMI) as the spectral discrimination filter of high-spectral-resolution lidars (HSRLs) for profiling the optical properties of atmospheric aerosols. By using the off-axis aspheric transmitting-receiving system, his group are developing an HSRL that can simultaneously detect the temperature and optical properties of the atmospheric aerosols with very high accuracy.

Website: <http://person.zju.edu.cn/liudong>.

Winner Zhang Rui

The researcher focuses on the semiconductor device technologies, especially the germanium (Ge)-based devices. He has revealed the first Ge CMOS with a performance exceeding that of Si CMOS, established the experimental study of inversion carrier effective mass in Ge channels and built up the carrier transport model for Ge channels. He has authored and co-authored more than 130 peer-reviewed papers with total SCI citation over 1450 times.

