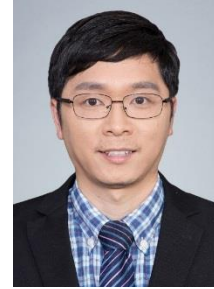


## Winners of Youth Innovation Awards of the Faculty of Information Technology, ZJU, 2019

### Winner He Shibo

The researcher has proposed a framework to efficiently identify the critical system status information in multi-dimensional complex systems, revealed the intrinsic relationship of network sensing problems for different spatial dimensions of sensing targets, and designed the scalable distributed intelligent sensing mechanism. He won the 1<sup>st</sup> prize of the Natural Science Award of MOE, because of his theoretical contribution to AIoT, and the research results have been applied to major infrastructure safety monitoring and other areas. His research has been supported by NSFC-Zhejiang joint major project, and sci& tech innovation 2030 program of MoST



### Winner Ma Yaoguang

The researcher focuses on the development of metamaterials and metasurface related devices in the field of nanophotonics. His research interests are in the fundamentals of nanoscale light-matter interactions and the advanced applications of micro/nanotechnologies in photonic, electronic, and energy systems. His notable contributions include laying out the innovative metamaterial structural designs for the hybrid random metamaterials for radiative cooling, developing novel scalable Nano-manufactured method for 300-mm-wide metamaterial thin film, and realizing the first experimental demonstration of the scalable-manufactured highly efficient radiative cooling technology. His research work and accomplishments have been reported and highlighted by various media channels



### Winner Zhuo Cheng

The researcher focuses on VLSI design and design automation, spanning from energy efficient computing, deep learning algorithm and architecture, to design automation algorithms. His most recent work includes low power chip power optimization/management, energy efficient data migration and storage circuit/architecture, which has led to improved performance, enhanced reliability, and reduced power for energy efficient computing chip and system.

