

Safety/Security Technology

Safe and Secure Society Realized through Applied physics

Safe and secure sustainable society

Comfortable and pleasant society
in harmony with natural environment

ICT

quantum communication quantum computing ultrasecure communication technologies
new protocol for authentication and payment highly secure wireless ICT
archives impervious to forgery and plagiarism secure communication networks

Prevention of terrorism, etc./ Reduction of disasters

imaging (high-energy radiation - THz) sensing of biological functions
biometrics advanced authentication
nondestructive tests electronics in extreme environments
intelligent transportation systems advanced actuation

secure living
environment in
harmony with
nature

Protection from biochemical hazards and diseases

food safety ultrahigh-sensitivity and rapid detection of viruses/bacteria
large-scale databases and ultrafast search drug development
sterilization and purification sensing of biological functions single molecule manipulation

Technology seeds

new light sources/detectors quantum information processing sensor networks
 μ -TAS human friendly interface wearable devices
devices compatible with humans and the environments
sterilization ultrahigh-sensitivity sensing noncontact power transfer single molecule manipulation
advanced crystal growth nanofabrication environmentally compatible materials
remote sensing image recognition massively large information storage

