

# IoT Enabling Sensing/Network/AI and Photonics Conference IoT-SNAP 2021

Sponsored & Organized by  
**The Graduate School for the Creation of New Photonics Industries (GPI)**

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Welcome to the IoT-SNAP2021. It will be held in virtual during 20th-23rd April, 2021.

The number of devices connected to IP networks will be more than three times the global population by 2023. There will be 29.3 billion networked devices by 2023, which accounts 3.6 devices per capita. Among them 14.7 billion will be Machine-to-Machine (M2M) connections.

Digital transformation (DX) is underway in many sectors such as manufacturing, automotive and transportation, and agriculture. IoT offers a great market opportunity both for M2M communication platformer as well as Over-The-Top (OTT) players or the application platformers.

IoT-SNAP has been inaugurated in 2018. The focus for IoT-SNAP are on the core technologies for SNAP, that is Sensing, Network, AI, and Photonics along with its applications and use cases. The participants from various sectors over the world, including the industries and academia will have opportunities to hear the cutting-edge technology of IoT and the novel use cases and exchange opinions on the IoT perspectives.

## Category 1

### Core Technologies

- Cyber physical security
- IoT wired/wireless networks
- Beyond 5G/6G
- AI/machine learning
- Big data analytics/science
- MOBILE edge computing
- Image processing
- Connected sensor systems
- Compressed sensing
- Others

## Category 2

### Applications and use cases

- Prevention and control for pandemics, COVID-19
- Healthcare and biomedical applications
- Smart city
- Smart mobility/MaaS
- Precision/smart agriculture
- Smart/flexible factory
- Smart civil engineering, construction and monitoring
- xR (VR/AR/MR) applications
- Field trial and social implementation
- Others

## Category 3

### Photonics Technologies

- Sensor/fiber sensor
- Imaging/image sensor
- Virus/biomedical sensor
- LiDAR
- Active and passive devices
- Integrated photonics
- Metasurface devices
- Terahertz
- Robotics
- Optical interconnect
- Visual light communications
- Underwater applications
- Others

## STEERING COMMITTEE

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