

Industrial Automation Sensors and Industrial Internet of Things (IIOT)

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Abstract

Recently Industrial Internet of Things (IIOT) has been a very hot topic and attracted heavy investment from every major industrial players. Different from a boarder concept of Internet of Thing (IOT), it focuses on interconnection in industrial space. It brings machine, people and analytics together at work. Industrial sensors, often thought as the eyes of industrial automation, is a crucial part of IIOT. Industrial sensors includes photoelectric sensor, inductive proximity sensor, capacitive sensor, magnetic sensor, and many others. Such technology allows physical information of machine and people be collected and transferred to a control unit, and eventually feed into analytics and preventative maintenance. As IIOT develops, solution providers are looking for more information than traditional industrial sensors can provide. New generation of smart sensors with digital communication capability is providing a lot more value than before. Such new development places new requirements and challenges to industrial sensors.

Speaker's short bio: Yongyao Cai is Engineering Manager Sensing and Safety Components in Rockwell Automation, the largest company dedicating to industrial automation globally. His current responsibility include design and develop smart sensors and safety devices for Rockwell Automation industrial solutions. Previously he was Sr. Director and head of R&D of Memsic Inc., the first pure play MEMS company that went public in NASDAQ. Yongyao has around 20 years of experience in electronics, sensor and sensing solution development. He holds 18 US and international patents in sensing related fields.