

SICE2016 Special Session:
International Symposium on
Smart Manufacturing and Industrial Network 2016
~Industrial IoT: System Architecture for Smart Manufacturing
and Next-Generation Industrial Network~

Room A (Conference Room 101)
International Congress Center Epochal TSUKUBA
Time / Date: 10:00 – 14:15 / Friday, 23rd, September, 2016

Organized by the Society of Instrument and Control Engineers

Planned by Technical Committee on Instrument & Control Networks in Technical Division on Industrial Applications

Co-planned by Committee on International Affairs and Committee on International Standardization

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Abstract:

Technical Committee on Instrument and Control Networks in Technical Division on Industrial Applications plans [SICE2016 Special Session: International Symposium on Smart Manufacturing and Industrial Network 2016](#).

The theme is “Industrial IoT: System Architecture for Smart Manufacturing and Next-Generation Industrial Network”.

The special session is held to follow up, drill deep into and expand following two organized session themes in collaboration with guest speakers from United States, Germany, China and Japan.

Anyone is encouraged to participate in following two organized sessions and this special session. Participants will argue fruitful discussion, create friendship relation and obtain expertise through on-going activities regarding latest trend of smart manufacturing standardization and industrial network.

[Two Organized Sessions held before special session]

- (1) “International Standardization to realize Smart Manufacturing enhanced by Measurement and Control” planned by Committee on International Standardization
- (2) “Sustainable and Cooperative Data Exchange in Industrial Control Systems and Networks” planned by Technical Committee on Instrument and Control Networks

Guest speakers from United States, Germany and China



Mr. Glenn Schulz
(FDT Group Managing Director)



Dr. Florian Manfred Grätz (KUKA Roboter GmbH, Research & Development, Product Owner)
He is responsible for the communication interfaces of the upcoming system software, including fieldbusses. In the past, he has integrated the FDT/DTM solution in the current system software.



Mr. Jiele Zhang
(FDT China Technical WG Chairman, M&M Software (Suzhou) GmbH, Technical Manager)
He is responsible for the Development Department.

Planner of Technical Committee on Instrument and Control Networks



Mr. Akio Ito
(SICE Technical Committee on Instrument & Control Networks vice chair, FDT Group A/P marketing Chair, Yokogawa Electric Corporation)
He is engaged in marketing and product planning of transmitter.

Planner of Committee on International Standardization



Mr. Hisanori Hayashi
(SICE Committee on International Standardization member, Yokogawa Electric Corporation)
He is an expert of IEC SC65C/WG16 (Wireless) & 17 (Wireless coexistence), and vice secretary of Advisory Group of TC65 Japanese National Committee.

The special session consists of following sub sessions.

Room A (Conference Room 101)

Time / Date: 10:00 – 14:15 / Friday, 23rd, September, 2016

- (1) International Symposium on Smart Manufacturing and Industrial Network 2016 (I)
(10:00-11:20)
 - Session1 Tutorial (20min)
 - Session2 International Standardization on Smart Manufacturing (30min)
 - Session3 Requirement from market (30min)
- (2) International Symposium on Smart Manufacturing and Industrial Network 2016 (II)
(12:45-14:15)
 - Session4 Flexibility, re-configurability, connectivity Standard for I/F, Device integration (30min)
 - Session5 Safety with Security (30min)
 - Session6 Wrap up (30min)

Participate in the following two Organized Sessions held before special session is encouraged.

- (1) “International Standardization to realize Smart Manufacturing enhanced by Measurement and Control” planned by Committee on International Standardization

Room A (Conference Room 101)

Time / Date 16:00 – 17:30 / Wednesday, 21st September, 2016

- (2) “Sustainable and Cooperative Data Exchange in Industrial Control Systems and Networks” planned by Technical Committee on Instrument and Control Networks

Room D (Conference Room 201A)

Time / Date 10:00 – 12:15 / Thursday, 22nd September, 2016

Chairs



Mr. Masatoshi Takano
(Toyota Motor Corporation)
He discusses connected ICSs from the viewpoint of plant floor operation and presents actual target-oriented activities evolving the connectivity and flexibility.



Mr. Tsutomu Yamada
(Hitachi, Ltd.)
He is engaged in R&D of embedded computer architecture, network systems and cybersecurity for industrial control systems.



Mr. Yoichi Takayanagi
(Toshiba Corporation)
He is an expert of industrial network and related equipment and instrument. He is a former chair of Technical Division on Industrial Applications of SICE.



Mr. Toru Ishikuma
(Azbil Corporation, expert of Energy Efficiency and Smart Grid I/F)
He is an automation standard expert for IEC/ACEE (Advisory Committee for Energy Efficiency), TC65/WG17 (Interface between industrial facility and Smart Grid) and TC65/JWG14 (Energy Efficiency through Automation Systems).



Mr. Hisashi Sasajima
(FieldComm Group, AP Marketing)
He has over 40 years' experience in Instrumentation and Control Engineering, Global Business Planning in Hydrocarbon and Chemical Process Automation. He has been deeply involved the establishment of Fieldbus technology development and promotion infrastructure in the Fieldbus Foundation.



Mr. Hiroo Kanamaru
(Mitsubishi Electric Corporation)
He has long experiences regarding safety and security in for industrial automation, and an expert of IEC/TC65/WG20: Framework to bridge the requirements for safety and security.