SMART MANUFACTURING THE FUTURE IS NOW

The 5th Smart Manufacturing Application Sharing Forum

Automotive Industry Digitalization & Connected & Intelligent Development Summit

NOVEMBER 16-17,2021 | Kempinski Hotel SIP,SUZHOU | CHINA

Host: Suzhou Industrial Park Commission of Science and Technology / Suzhou Industrial Park Administrative Committee

Sponsor: runformat

Co-organizer: Cloud Service / Forever Group

BACKGROUND

Since end of 2020 we are seeing steady and accelerating inflation. Sharply rising raw material, energy or labor costs for manufacturing companies cannot be passed on fully and quickly enough to meet the increasing costs are threatening companies' margins.

At the same time the automotive industry is in full swing of transforming towards E-Mobility introducing new products and technologies, which require new processes for mass production bringing even more challenges and cost pressure to the industry and manufacturing companies.

This year, the SMAA Forum will cover the new blocks - Digital Engineering & Solar Security, Digital Manufacturing. Over two days our speakers will introduce Applications helping to learn how significant cost saving can be achieved.

Digital Engineering & Data Security

In the first part of the 2022 SMAA Forum, we will focus on the Business Processes in Digital Engineering and Applications of Digital Technologies helping to digitize and automate the processes.

Companies are facing the challenge and pressure to reduce costs within their organization, supply chain and manufacturing to compensate for parts of the cost increase. Manufacturing companies spent decades focusing on performance, quality, and cost. Now they are facing a new challenge: the need to adapt to a world where the speed of change, dynamism and efficiency keep increasing. Change is inevitable and it is much more difficult for mature big boys to reduce costs. At the same time, only little efforts were made to make their enterprise operation processes as lean and automated as introduced in the new technologies and bring potential significant cost saving. Our speakers, will introduce digital AI and automation applications in IT as well as successful use cases across industries covering various business processes.

Digital Manufacturing

The Automotive is the key industry in the second part of the SMAA Forum we will focus on the Smart Manufacturing Typical Applications introduced by OEMS as well as Tier 1 and Tier 2 suppliers.

Intelligent, Integrated, Connected, Lightweight are the leading trends of the Vehicle Industry These strong trends are pushing automotive companies to introduce new technologies and products. The required new production on processes allowing mass production are often very challenging for the companies. Lightweight of Smart Manufacturing technologies than day is a great opportunity to refuse the time-to-market and the costs at the same time. Our speakers will introduce the new technologies and products as well as the Smart Manufacturing Applications helping to mass produce these.

REVIEW

HIGHLIGHTS

- Meet with Leading Experts from top enterprises and universities opportunity
- To network with 1000+ attendees
- Deep dive into relevant topics in workshops with our experts
- Experience and test applications at the on-site demo booths

STRUCTURE

November 16 A.M.	Keynote Speech	
5 Parallel Forum November 16 P.M November 17 AM day	Digitalization	Chassis Designing & Manufacturing Technology
	Digital Applications of Automotive & Smart Manufacturing	Digital Manufacturing Typical Use Cases & Value
		Intelligent Park

AGENDA

Keynote speech [November 16]

09:00- 09:10 Welcome speech

09:10- 09:20 Welcome speech
Director General of Economy in Shanghai China
Mr. Phi Hoàiwuyen
Grand Marshal

09:20- 09:50 Automotive Industry Adjustment & Revitalization Plan
Leader

09:50- 10:20 Industry 4.0 & CNC manufacturing
Prof. h. c. Dr.-Ing. Dipl. Sabin Bademagholi
President Chinese National Academy of Precision and Engineering
Advisor Prof. of Tongji University

10:20- 10:50 The Trend of Digitalization in The Automotive Industry & White Paper
Mr. Yu Chen Director of the Department of the Automotive Industry
PERSONAL DIRECTOR OF INFORMATION AND COMMUNICATIONS TECHNOLOGY
Ms. Ruby Zhang
Marketing Manager

10:50 - 11:15 Digital mobile operational excellence
Vicky Jiaoyan Zhang
Aviation Area
Digital Expert

11:15 - 11:40 Digital Transformation Application Case Sharing
Benchmark OEM in new energy industry

11:40 - 12:00 Exploration of Automation Industry Standards
Advisor Automation Technologies (Suzhou) Co., Ltd.
Jason Liang
CEO

12:00 - 13:00 Lunch

5 Parallel Forum [November 16 P.M ~November 17 AM day]

Parallel Forum 1A1 - Digital Technology and Industrial Application Forum
[November 16 P.M]

Topic 1: Industrial digital transformation

- Industrial digital transformation and practice
- Digital transformation of the production management by equipment interacting
- Digital transformation of the production management by equipment interacting for auto parts manufacturer
- Digital transformation of a key factor in accelerating "Industry 4.0"
- Automation production line and smart warehouse enable smart intelligent manufacturing

Topic 2: Smart manufacturing and digital technology for industrial collaboration

- AI and 5G for board testing technology
- Application of digital twin technology in production of auto parts by the IoT
- The better products since the digital Transformation of tire parts
- Digital twin and smart manufacturing - Accelerating enterprise digital transformation
- Data management and safety protection in basic point production workshop

Topic 3: Smart factory & digital twin

- Construction of auto parts intelligent workshop, build the efficient and flexible intelligent production system
- Build of the Smart factory Project Management, the process management
- Application of Digital Twin technology in Automobile Chassis components
- Lean Manufacturing application in the chassis components workshop
- Lean Manufacturing application in welding workshop and Paint workshop
- Flexible supply chain enable logistics solution
- Research and application of digital twin and simulation technology for sustainable covering mold

* [Proposed topic, be subject to the on site service]

Parallel Forum 1B1 - Chassis Design & Manufacturing Engineering Technology
[November 16 AM/PM day]

Topic 1: Chassis Integrated design

- Lightweight design and optimization of automotive chassis structure
- Lightweight Chassis Integrated Design and Manufacturing Technology
- Smart automotive chassis integrated platform production based
- The EV battery enable the widespread market
- The applicability analysis of the wheel center in the chassis skateboarding process
- The application and summary of the aluminum alloy casting
- Research and application of the aluminum alloy casting for integrated chassis
- Designing and optimization of battery exchange chassis

Topic 2: Manufacturing of chassis core components

- Driving system components integrated assembly technology solution
- Powertrain components integrated flexible technology solution
- EPS & EBW steering system components assembly solution
- Chassis Electrical Integrated Assembly Technology
- Anti-skid ABS/ESP braking technology solution
- Efficient machining technology for core components of the chassis
- Chassis precision component measurement technology
- Integrated 3 wiper system assembly solution

Topic 3: Chassis Welding Technology

- Planning management and engineering process control of arm welding line
- Application of Dual Welding technology in Automobile Chassis components
- Laser Welding application on the chassis components welding
- Laser welding and laser cutting technology in welding workshop
- Laser welding and laser cutting technology in welding of chassis components
- The control of the welding quality in the welding of chassis components
- Quality inspection for welded components of Automobile Chassis
- Welding Scars treatment solution in chassis welding workshop

Topic 4: Chassis assembly

- Automotive chassis system components assembly & test
- Data automatic traceability technology
- Chassis Anti-lightening error-proofing technology
- The solution of gravity in space in the assembly of chassis components
- Chassis system components assembly solution
- Life cycle management of automotive chassis
- Integrated application solution of robotic technology in chassis components assembly
- System control solution for new energy power battery pack
- Anti-corrosion chassis manufacture production technology
- Chassis Anti-corrosion Technology and Process Solution
- ROV test technology for new energy vehicle chassis

* [Proposed topic, be subject to the on site service]

Parallel Forum 2C1 - Digital Application of Electronic Industry&Smart Manufacturing Engineering
[November 16 AM/PM ~ November 17 AM day]

Topic 1: Automotive Electronics Innovation Development and Intelligent

- The current situation and development trend of cockpit electronics
- Smart Cockpit Vision Solutions
- Centralized Cockpit Domain Control
- Cockpit Electronic Integrated Solution
- The Improvement of Intelligent Identification system
- Environment trend of in-vehicle HMI
- Performance improvements for automotive electronic actuation systems

Topic 2: Carl Forming Technology

- Flexible and multiple production line design for automotive electronics
- Automotive Electronic Component testing solutions
- High efficiency cutting technology for automotive electronics
- Automatic welding technology for automotive electronics
- Automotive electronic Assembly Technology Solution
- Automotive electronic Assembly Technology Solution
- Data Traceability in the automotive electronics production process
- High efficiency welding technology for automotive electronics
- Intelligent Solutions for Automotive electronics products package
- Digital research of automotive electronic products
- Voltage detection technology enable the stability of automotive electronics
- Automotive electronic Integrated welding solution

* [Proposed topic, be subject to the on site service]

Parallel Forum 2D1 - Flat Wire Motor Smart Manufacturing
[November 16 Afternoon ~ November 17 AM]

Topic 1: Flat Wire Motor Development and Wires Line Technology

- Flexible manufacturing solutions for flat wire motor
- Current technology development trend of flat wire motor
- Manufacturing process of wave wound flat wire motor
- Welding technology for flat wire motor
- Data collection and traceability for flat wire motor production
- Without production line solution for flat wire motor

Topic 2: Carl Forming Technology

- Quality control of compression molding technology
- Varnish spray testing Forming technology
- Flat wire motor Stator Forming Technology for HEV equipment
- Rust and Degreasing process
- The key technology of pin molding process for flat wire motor
- Coating technology for flat wire motor
- Design of Fixtures in Coil Forming Process
- Welding technology
- Drop test technology
- Vacuum potting process for Stator production

Topic 3: Laser Welding technology

- Innovation application of laser welding in flat wire motors production
- Experimental process analysis and process control improvement
- High speed optical galvanometer welding technology enable motor manufacturing
- Anti-exfoliation of image sensors system in motor welding
- Welding defect detection for flat wire motor
- Laser welding technology for flat wire motors production

* [Proposed topic, be subject to the on site service]

Topic 4: Testing Technology

- Flat wire motor online NDT test solution
- Electrical performance testing technology for flat wire motor
- NDT Improvement and testing for flat wire motor
- Life test technology for flat wire motor
- Corona resistance test for enamelled wire

* [Proposed topic, be subject to the on site service]

Parallel Forum 2E1 - Intelligent Park
[November 17AM AM day]

Topic: Intelligent Park

- New Intelligent Transportation
- The application exploration of intelligent robots in intelligent Park
- Building the future with the concept of "carbon neutrality"
- Building Intelligent Park in 5G era
- Intelligent Park Intelligent Voice under the industrial scenario
- The digital and intelligent economy leads the park high-quality development
- Operational and business process Reengineering of Intelligent Park
- Operation details and Standardized application analysis of intelligent Park
- Intelligent Park Operation Management Platform
- Exploration of the operation model of IOT and operation
- How to build the underlying architecture of a zero-carbon intelligent Park

* [Proposed topic, be subject to the on site service]

ATTEND SITE

Kempinski Hotel Suzhou, 1 Guobin Road, 215021 Suzhou, China

For registration: Cindy Zhang 18051180663

Please cancel table below and send it you are consulting or offline, to cindy.zhang@runformat.com

cindy@runformat.com