

Welcome to the 2020 GPDIS Virtual Sessions!

Global Product Data Interoperability Summit | 2020

Welcome to the 2020 GPDIS Virtual Session # 8

These sessions will be recorded

All attendees will remain on mute.

If you have a question please place it in the chat to “All Attendees”. We are not using Q&A

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History and Focus of GPDIS

- Global Product Data Interoperability Summit (GPDIS) was formed in 2009. It was the consolidation of two conferences (Data Exchange and SOA Deep Dives) addressing integration technologies along with the non-proprietary exchange of data
- GPDIS functions as a communications hub for industry principals to foster knowledge through the exchange of ideas, solutions and methods.

2020 Theme: The Great Race of Digital Transformation

How is your model based enterprise today?

- Together we will explore digital transformation and what it will take us to FULLY achieve it. Using the Great Race as a metaphor, we will explore the building blocks of digital transformation and how interoperability will enable the digital transformation journey for industry.

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Emergent Technology Panel Discussion

How emergent technology is
transforming the A&D industry

GLOBAL PRODUCT DATA INTEROPERABILITY SUMMIT 2020

Session 8: Tuesday, November 24th

**(ET/IT) Emergent Technologies/Industry
Transformation**

Moderators: Robert Rencher (Boeing) & David Nelson (Boeing)

Dial In Information

2:00 PM – 2:55 PM ET

**Rusty Rentsch, VP, Aerospace Industries Association (AIA)
Bassam Zarkout & Jim Morrish, Co-Chairs Industrial Internet
Consortium Digital Transformation (IIC)
Dr. Ravi Kumar, Chair, SAE International Digital Communications
committee**

Panel Discussion

**How Emergent Technology is Transforming the Aerospace and
Defense (A&D) Industry**

[Link to Abstract](#)

3:00 PM – 3:30 PM ET

Abhijit Bhattacharjee, Senior Applications Engineer

Mathworks

Building AI Systems



Rusty Rentsch
**Vice President, Technical Operations
& Standards**

📞 703.358.1054

✉ Email

Rusty Rentsch is Vice President for Technical Operations and Standards, supporting the AIA Technical Operations Council and the AIA Standards Program. Rentsch is responsible for facilitating the priorities and objectives of Council and its committees that supports a healthy U.S. Aerospace and Defense industrial base; and, advocating for programs, policies, and investments that promote innovation and technology in the U.S. aerospace and industrial community.

Rentsch has been with AIA for 15 years and over 10-years in both commercial and defense aerospace sectors. He held Technical Support Engineering and Commercial Support positions with Textron Lycoming, Messier-Services Inc., and Messier-Dowty. Additionally, Rentsch has several years of experience in product development and management in the telecommunications and logistics industries.

Rentsch chaired the American National Standards Institutes (ANSI) ISO Forum and has chaired the ISO Technical Committee 20 for Aircraft and Space Vehicles. Currently, Rentsch is leading AIA's efforts to establish an A & D industry consortium for governing and promoting Blockchain/Distributed Ledger; expanding apprentices; and coordinating efforts with industry, academia and government stakeholders to create commonly accepted standards for Airworthiness Engineering Training. In his experience, Rentsch has represented the interests of the U.S. aerospace industry as a member of the AIA-ASD-ATA S1000D Council, the AIA-ASD Integrated Logistics Support Specification Council and the ANSI-H35 Committee for Aluminum and Aluminum Alloys

Rentsch has a bachelor's degree in mechanical engineering and ocean engineering from the University of Rhode Island and a Master Degree in Business Administration from George Mason University.

<https://www.aia-aerospace.org/personnel/rusty-rentsch/>

Digital Transformation in Industry

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- Chair, IIC Digital Transformation Working Group.
- Founding Partner, Transforma Insights.
- Over 20 years' experience of strategy consulting, operations management and telecoms research.
- jim.morrish@transformainsights.com

Jim Morrish (Transforma Insights)



- Chair, IIC Digital Transformation Working Group.
- Founder IGnPower (IoT consulting).
- Over 25 years in Information Governance, Governance Policy Engines, Data Protection, former CTO RSD Geneva.
- bzarkout@ignpower.com

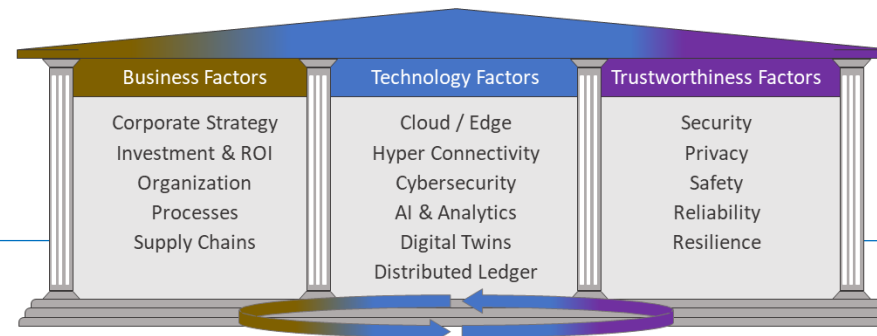
Bassam Zarkout (IGnPower)



Mounting Challenges
Higher Process Efficiencies
Disruptive Innovation
Mounting Market Pressures
Growing Regulatory Pressures
Exponential Growth of Big Data
Evolving Demographics



Better Outcomes
New business models
New partnership models
New operational models
New service models



Dr. Ravi Kumar G. V. V.- Recognition

Home > Dr. Ravi Kumar G. V. V.- Recognition



Dr. Ravi Kumar G. V. V. is Associate Vice President and Head Advanced Engineering Group (AEG) of Engineering Services, Infosys. He has led many innovation and applied research projects for more than 20 years. His areas of expertise include mechanical structures and systems, knowledge-based engineering, composites, artificial intelligence, robotics, autonomous systems, AR, VR and Industry 4.0. He is involved in the development of commercial products like AUTOLAY (CADDs-COMPOSITES) – a spin-off Indian LCA(Tejas) program, Nia Knowledge – a knowledge-based engineering platform and KRTI 4.0 – an operational excellence framework. He contributed to many Industry 4.0 implementation projects and played a key role in the development of Industry 4.0 maturity index under the umbrella of Acatech, Germany. He is also involved in various initiatives of the World Economic Forum (WEF) fourth industrial revolution technologies in production. He is a member of the HM 1 and G31 technical committees of SAE International contributed to aerospace standards development. Dr. Ravi Kumar has published over fifty technical papers, three patents – two granted and one filed. He has a Ph.D. and an M.Tech in Applied Mechanics from IIT Delhi, and a BE (Honors) from BITS Pilani, India.

<https://saeindia.org/dr-ravi-kumar-g-v-v-recognition/>

Key technologies that underpin Digital Transformation

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Cloud/Edge



Hyper-Connectivity



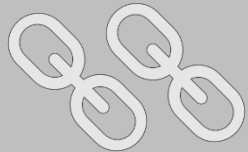
Data Security



AI & Analytics



Digital Twin



Distributed Ledger



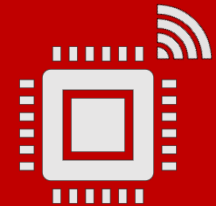
Human Machine Interface



Additive Manufacturing



Data Sharing



IIoT



Autonomous Robotic Systems



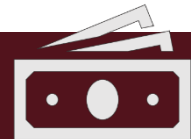
Innovation at the IT/OT Boundary



Micropower Generation



Servitization



Platforms for new Business Models and Payment Methods



Digital Transformation in Industry Whitepaper

Paper is aimed at business and technology professionals embarking on DX journeys in their organizations

General overview of DX in Industry and the driving forces behind it

Description of key technologies that underpin the DX Journey



Digital Transformation in Industry White Paper

An Industrial Internet Consortium White Paper
Version 1.0
2020-07-29

https://www.iiconsortium.org/pdf/Digital_Transformation_in_Industry_Whitepaper_2020-07-23.pdf

Thank you for attending GPDIS 2020

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Recordings and presentation decks can be found under the 2020 Presentations at <https://gpdisonline.com/event-history/>