german-french academy
for the industry of the future
founded by IMT and TUM

Workshop

Data-Driven Collaboration in Industrial Chains (DISC)

The digitalization initiated by Industry 4.0 has promoted data as a central focus for industrial supply chain actors. Simultaneously, there is a growing interest in collaboration within manufacturing and distribution systems, with the objective to improve the utilization of resources available. An efficient coordination implies that the different actors, who sometimes are also competitors, disclose and share data with each other and/or with common suppliers and service providers to improve global supply chain performance. This brings out contradictory incentives in which industrials have to assess the benefits and the risks of sharing information, ponder the amount and type of data to share in order to make maximum benefits from the collaboration without jeopardizing their position by disclosing strategic information to their competitors.

In an attempt to adequately face the above context, researchers from the TU Munich and the IMT-Atlantique have partnered up and initiated the Data-driven Collaboration in Industrial Supply Chains project (DISC) in the frame of the German-French academy for the Industry of the Future (https://www.future-industry.org/).

The DISC 2019 Workshop, which will take place on **May 20th and 21st in Munich**, aims at initiating a collaboration between industrial partners whose final objective is to come up with academic- and industry-oriented perspectives on (1) technologies and software (cloud) for data-sharing, (2) tools and concepts for estimating and allocating the benefits, (3) a framework for estimating risk and different mechanisms for securely sharing necessary information without disclosing details which entail too high risks.

The workshop welcomes presentations of on-going research and industry projects on decision-making problematics dealing with collaborative aspects and data sharing in the supply-chain. Topics discussed during the workshop will include conceptual, technical (IT solutions) or practical (case studies) presentations, in particular relating to:

- Information Sharing & Asymmetry
- Value of Information
- The use of blockchains & smart contracts
- The use of cloud technology & collaboration hubs
- Integrated Business Processes
- Information systems, software, data exchange, API and standardization
- Cloud computing/manufacturing related aspects
- Management practices
- Tools from Artificial Intelligence, Analytics and Operations Research
- Practical case studies

Furthermore, a special focus will be given for the automotive and aerospace industry as being official partners in the DISC project.

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Program

DAY 1: 20 May 2019

10:00 Welcome
11:00 Introduction : Welcome speeches, purpose of the workshop
11:15 **Academic Keynote 1: To share or not to share**
12:00 Lunch
14:00 **Industrial session** – 2 presentations
15:15 **Industrial session** – 2 presentations

Each 15 min presentation +15 min discussion
16:30 **Roundtable session – Benefits and obstacles of Data Sharing**

DAY 2: 21 May 2019

9:00 **Academic Keynote 2**: **Simple supply chain coordination mechanisms**
9:45 **Industrial session** - 2 presentations
11:15 **Industrial session** - 2 presentations
12:30 Lunch
14:00 **Roundtable session – Will Industry 4.0 change data-driven collaboration?**
15:15 Wrap-up session
16:00 Workshop closes

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