

Special Issue

Industry 4.0 Supply Chain: From Connectivity Provisioning, Data Management to Cyber Resilience

Message from the Guest Editors

Supply chain provisioning with the help of IT has become one of the major challenges in modern industrial settings, serving multiple actors in finance, manufacturing, healthcare, and many other sectors. Supply chains need not only security connectivity between individual parts of the supply chain (source, manufacturer, customer) but also advanced features of reliability and cyber security. While many approaches in the so-called Industry 4.0 address the issue of connectivity for the supply chain, including sensing, edge, and cloud computing, this is not enough today, and it has become mandatory to design novel cyber-resilience strategies. This is especially a challenge when considering distributed, heterogeneous, multiactor contexts addressing traditional security challenges but also those raised by the envisioned distributed scenario. The resilience of ICT systems is premium, in fact, and every ICT system is expected to implement at least a set of basic mechanisms to prevent, resist, and recover from any type of disruption in a timely manner, thus minimizing the impact on service quality and user experience.

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