November, 27th - 2024 Reggio Emilia – Italy

Innovation day

Data-Driven Service Strategies

Innovation and Proactive Maintenance in Modern Industry

OEM side

Federico Milan



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introduction



2. dada-driven ecosystem



3. Hools And Approaches



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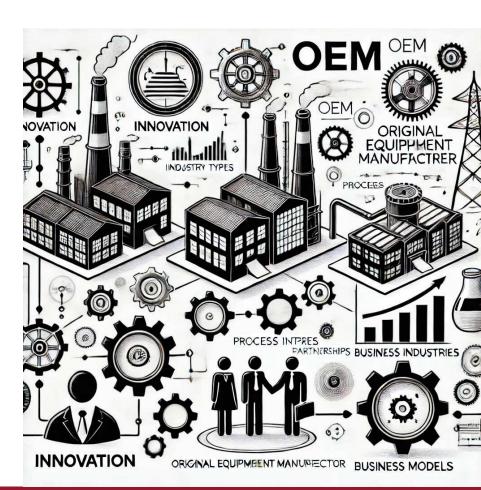


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Introduction

- Innovation: What is it?
- Business Model
- Partnership

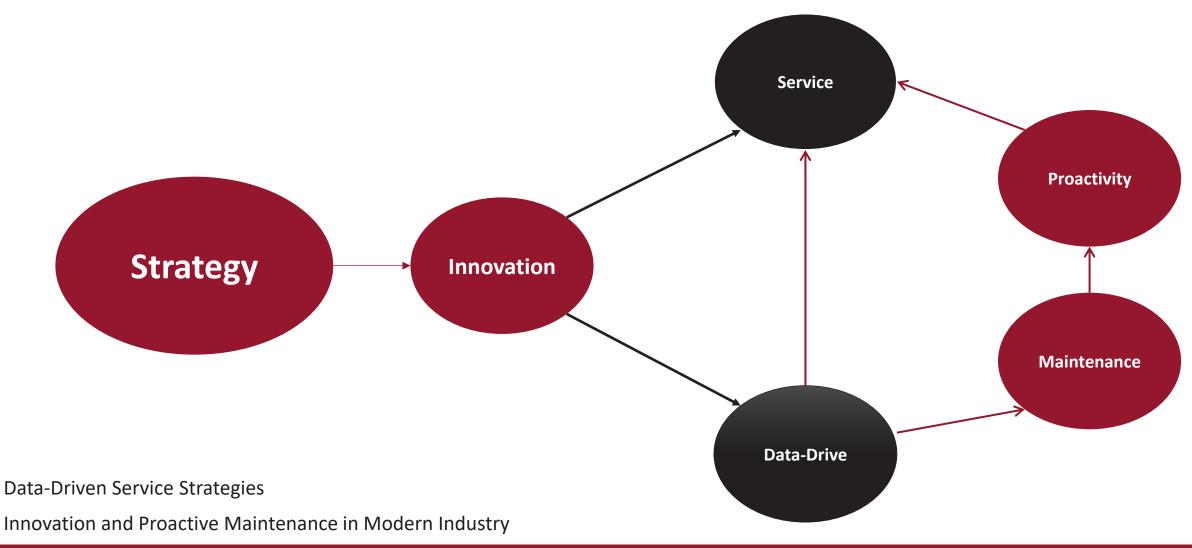




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Innovation

Innovation is a perspective, we must think beyond



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Business models

The business model defines the framework within which a company operates and creates value for its customers and stakeholders.

Cost Structure

Costs that are involved in all aspects. Fixed and variable cost, scale economy, sustainability, ... Market Segmentation Specific group of potential customers

Operation Processes Dato to day activity, production, distribution, customer service.

Value Proposition What make product/service attractive to customers.

Revenue Streams How company make a money

Key Resources Essential assets, intellectual properties, human, financial

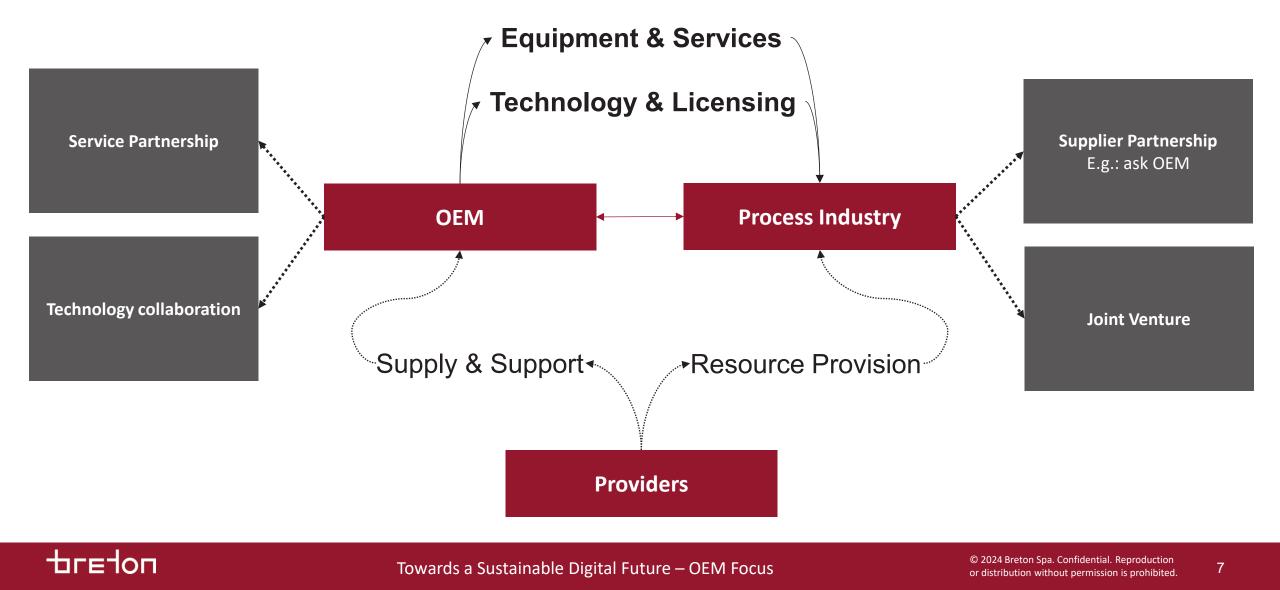
Key Partnerhip Network of supplier, distributors, collaborators, ...



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Partnership: Provider, OEM and Process Industries

Competitive and rapidly evolving industrial landscape calls for strategic partnerships





Data-Driven Ecosystem

- Data-Driven Ecosystem
- Human-Centric Design and Industry 5.0

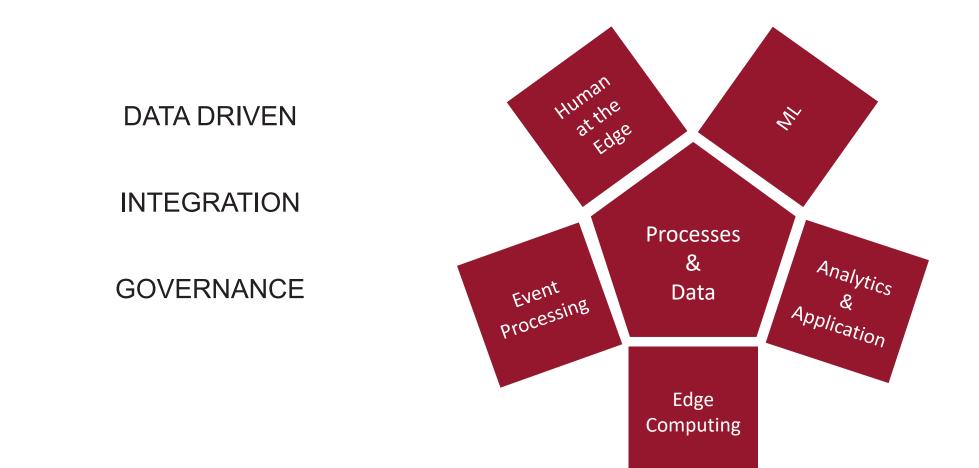




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Data-Driven Ecosystem

A data-driven ecosystem integrates and analyzes continuous data collection to enhance operations, decisions, and customer experiences.

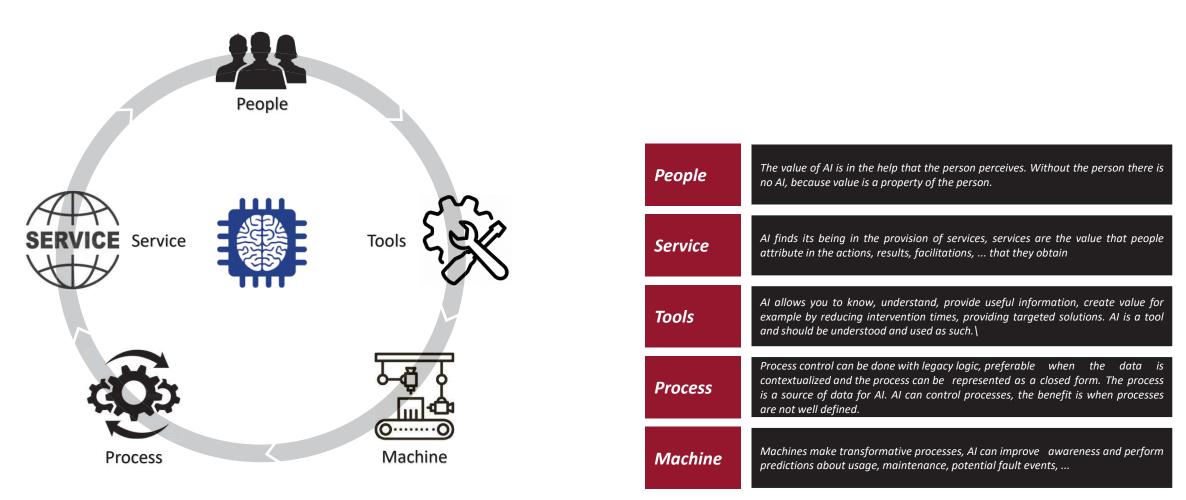




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Data-Driven Ecosystem

→ *People* × *Tools* × *Service* × *Process* × *Machine*

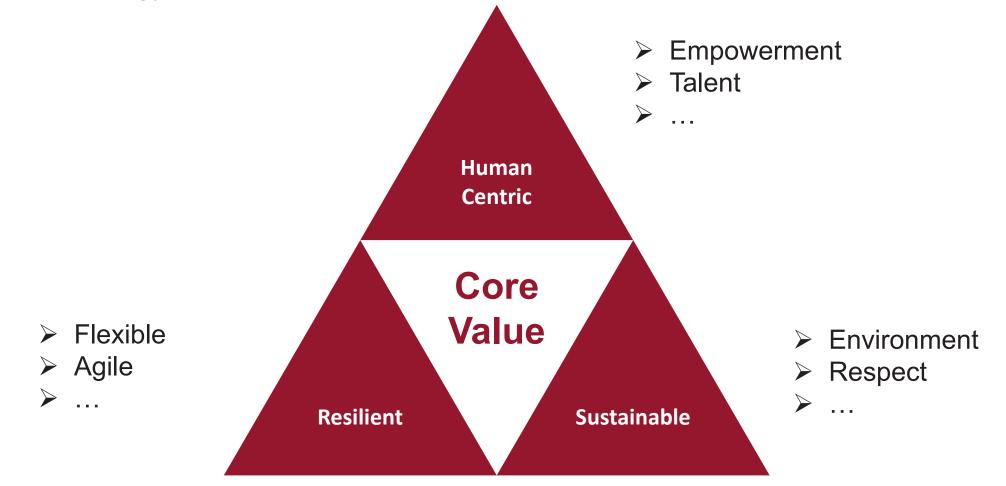


Five Elements of AI profitability



Industry 5.0 And Human Centric Design

Industry 5.0 and Human Centric Design emphasize integrating human creativity with advanced technology for sustainable and inclusive industrial processes.







Tools and approaches

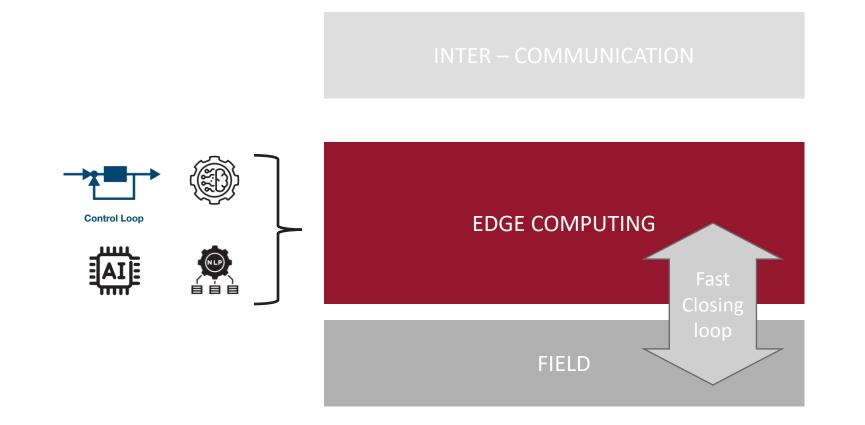
- Edge Computing
- Human in the Loop
- Human at the Edge
- Proactivity in Machines





Edge Computing

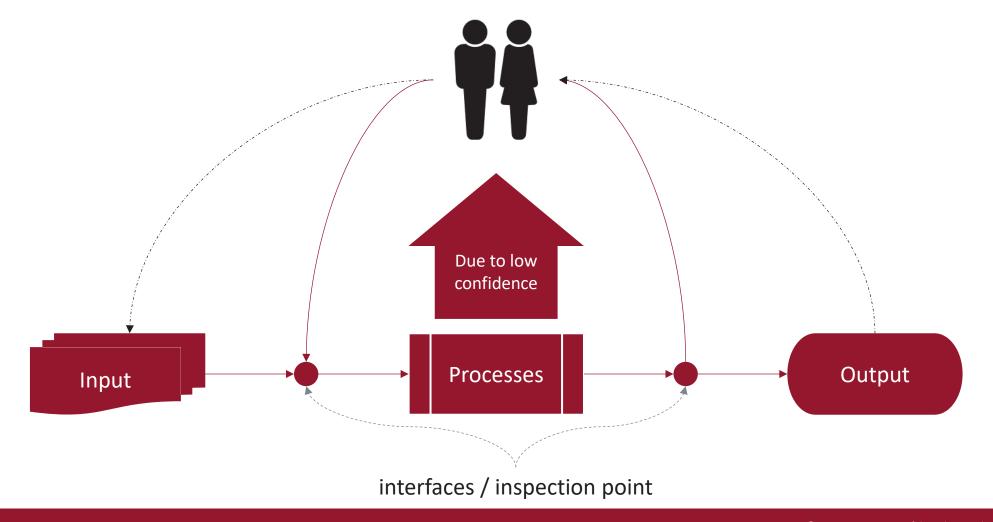
Edge computing is a computing approach that processes data near its source to reduce latency and bandwidth use.





Human in the Loop (HITL)

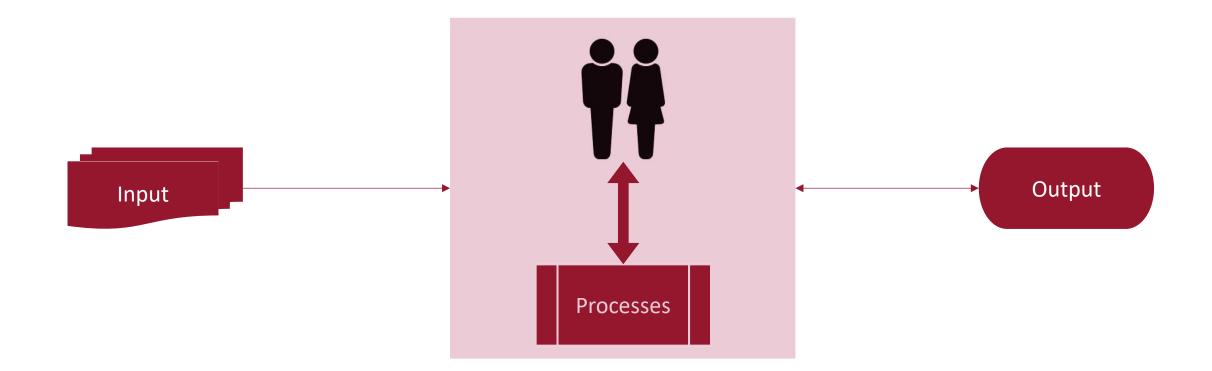
HITL involves incorporating human judgment into automated systems to ensure accurate and ethical decision-making.





Human at the Edge

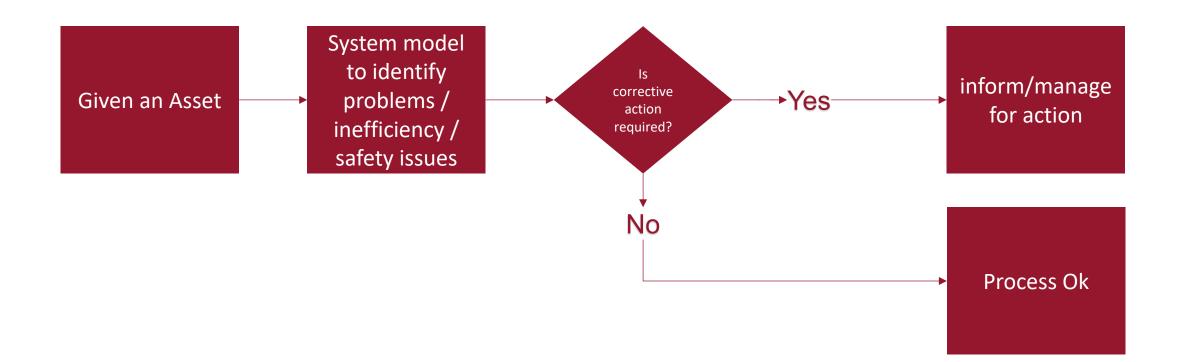
"Human at the Edge" involves placing human decision-making close to data sources in edge computing environments for real-time responses.





Proactivity in Machinery

Proactivity in machinery refers to the capability of machines to anticipate needs and act in advance to address them, often using AI and data analytics. This approach improves efficiency, safety, and predictive maintenance.







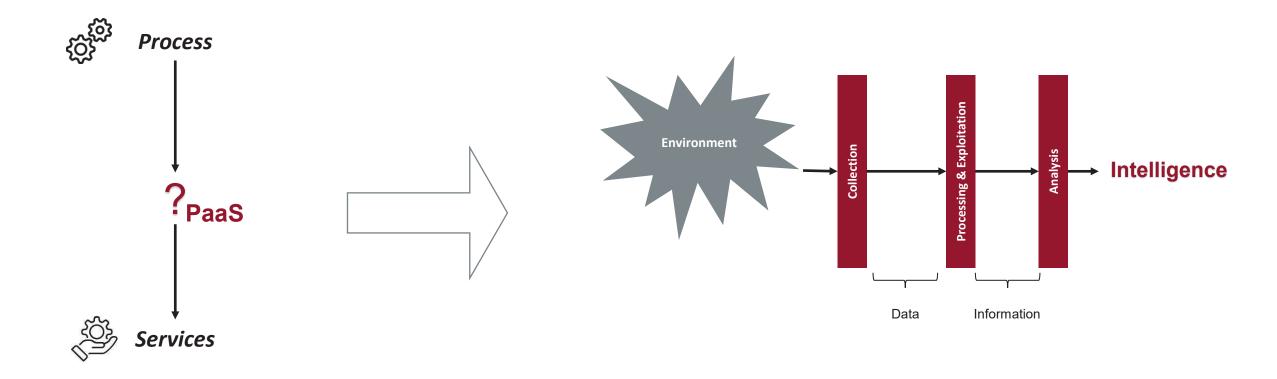
Use case

- Problem Setting
- Digital framework
- Solutions





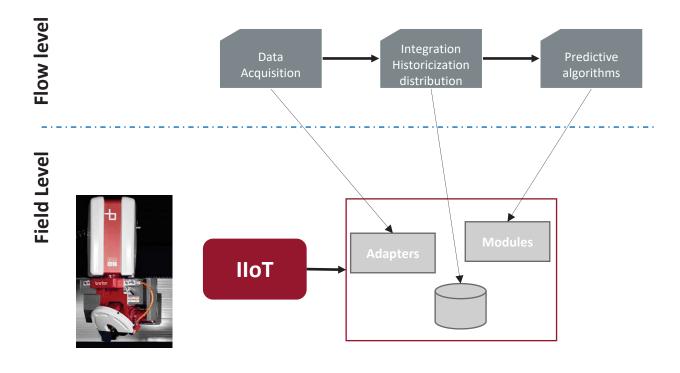
Problem Setting Business model



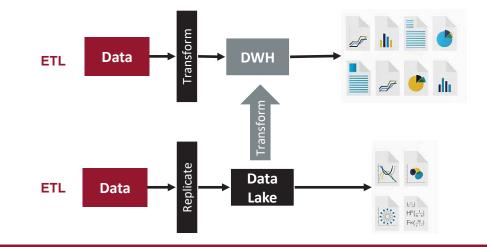


Digital Framework

The digital framework integrates edge computing and IoT, funneling data into the cloud, differentiating between data lakes, which store raw data, and data warehouses, which hold structured data for analysis.



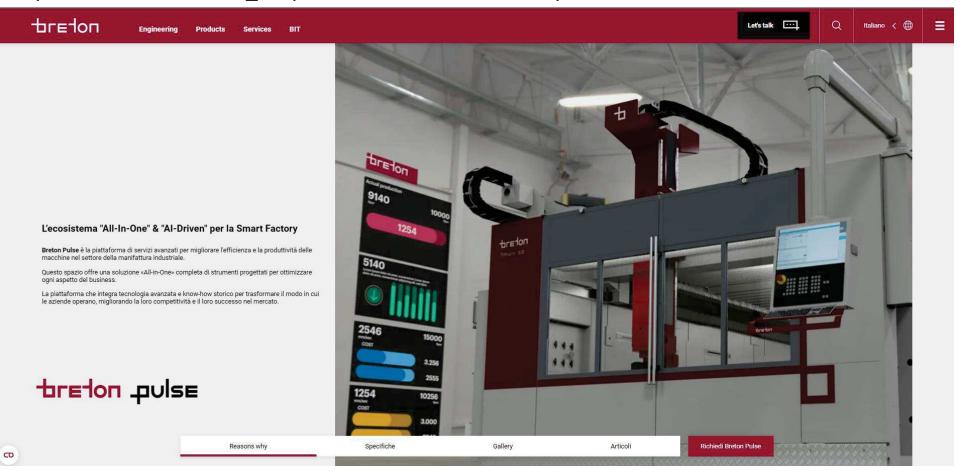




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Solution

https://www.breton.it/it_eu/products/software/breton-pulse

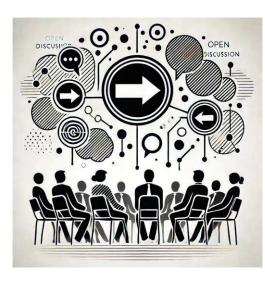




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End presentation

Open discussion



Bibliography

Books

Disruptive Innovation - Clayton M. Christensen, Michael E. Raynor, Jef Dyer, Hal Gregersen

Data Driven How Performance Analytics Delivers Extraordinary Sales - Jenny Dearborn

Asset Maintenance Management in Industry

A Comprehensive Guide to Strategies, Practices and Benchmarking - Rama Srinivasan Velmurugan, Taru Dhingra

Human-Robot Interaction

An Introduction - Christoph Bartneck, Selma Sabanovic

Internet of Things: Concepts and System Design

- Milan Milenkovic

Gen-Al and 15.0 Reflections on Emerging Industrial Technologies - Federico Milan

https://www.amazon.it/Gen-Al-Reflections-Emerging-Industrial-Technologies/dp/B0DHJGM93Q

Smart Scada

Idee di progetto per una supervisione intelligente di impianto – Federico Milan https://www.amazon.it/Scada-progetto-supervisione-intelligente-impianto/dp/B09W4BTLQ3

Articles and Sites



Data management for industrial machines and plants https://www.breton.it/services/articles/white-paper-data-management-for-industrial-machinesand-plants

A Human-Machine Interaction Mechanism

Additive Manufacturing for Industry 5.0—Design and Management Sunanda Rani,Dong Jining,Khadija Shoukat,Muhammad Usman Shoukat and Saqib Ali Nawaz https://www.mdpi.com/2071-1050/

Gartner

Top Trends on the Gartner Hype Cycle for Artificial Intelligence, 2019 https://www.gartner.com/smarterwithgartner/top-trend s-on-the-gartner-hype-cycle-for-artificial-intelligence-2019

McKinsey Digital

Creating value beyond the hype https://www.mckinsey.com/capabilities/mckinsey-digital/how-we-help-clients?cid=oth-psegaw-mbm-na-njt2-eurweb&utm_medium=ad&utm_source=rta_googlesearch&utm_campaign=Z9010482_rta_mckdi gital_loicbailly_program_njt2_wv_20240917_20241122_nonbrandeu&utm_content=Z901048

2_rta_mckdigital_loicbailly_program_njt2_wv_20240917_20241122_nonbrandeu_googlesear ch_eu_nonbrand_tech_na_na__na_na_lp203_na&gad_source=1&gclid=CjwKCAiAudG5 BhAREiwAWMISjEDSSobrHkAPDa_RyJ-q5JESUzlpqAPpVrIYxEp-9F7zcMZo1JVt0RoCxvIQAvD_BwE&gclsrc=aw.ds

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