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### Emerging Industries: Nexus between Emerging Technologies and Industry 5.0

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Several enabling technological trends such as Edge Computing, IoT, big data analytics, AI, and 5G are integrated with cognitive skills and innovation that can help industries increase production and deliver customized products more quickly. These enabling technologies make Industry 5.0 an advanced production model with a focus on the interaction between machines and humans. Smart machines are designed to work collaboratively with human beings, and this collaborative work facilitates human capabilities more productive, exceptionally easy to automate for individuals and small businesses than ever before.

Hence, there is a dire need of exploring the aforementioned emerging technologies and their integration with Industry 5.0 for specialized and personalized services.

- Novel architectures for Personalized Manufacturing Services using Industry 5.0
- Industry 5.0 applications such as agile manufacturing, zero-defect production, predictive maintenance, and green manufacturing
- Advanced Sensors for Industry 5.0 applications
- Advances in the application of distributed ledger technologies for Industry 5.0 applications
- Advances in Industry 5.0 applications via integration with Quantum Computing
- Advances in Smart Transportations using Industry 5.0 and Green Hydrogen
- Industrial Server-less computing systems
- Energy-harvesting techniques for industrial scenarios using Green Hydrogen
- Digital twins for Industry 5.0
- Human-centric Smart Industrial Systems
- Digital Health for manufacturing industries



- Human interaction with cobots using spatial computing
- Next generation networks for Industry 5.0 applications
- Cognitive Industry 5.0

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