

Methodologies for innovation and best practices in Industry 4.0 for SMEs

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Keynote

Abstract

Today, cyber physical systems are transforming the way in which industries operate, we call this Industry 4.0 or the fourth industrial revolution. Industry 4.0 involves the use of technologies such as Cloud Computing, Edge Computing, Internet of Things, Robotics and most of all Big Data.

Big Data are the very basis of the Industry 4.0 paradigm, because they can provide crucial information on all the processes that take place within manufacturing (which helps optimize processes and prevent downtime), as well as provide information about the employees (performance, individual needs, safety in the workplace) as well as clients/customers (their needs and wants, trends, opinions) which helps businesses become competitive and expand on the international market.

Current processing capabilities thanks to technologies such as Internet of Things, Cloud Computing and Edge Computing, mean that data can be processed much faster and with greater security. The implementation of Artificial Intelligence techniques, such as Machine Learning, can enable technologies, can help machines take certain decisions autonomously, or help humans make decisions much faster. Furthermore, data can be used to feed predictive models which can help businesses and manufacturers anticipate future changes and needs, address problems before they cause tangible harm,

Challenges to industry 4.0 for SMEs

Small and Medium Enterprises (SMEs) generally find it much harder to adapt to the new Industry 4.0 model. This is because their resources are often limited; they cannot afford large investments in digital transformation and finding funding for such projects may often times be difficult. Nevertheless, resisting change is no longer an option for SMEs, especially during the pandemic. SMEs now feel obliged to developing policies and technological plans very fast, so they can survive in an ever-more digitised world.

Solutions for SMEs

Fortunately, there are comprehensive solutions on the market which enable SMEs to accelerate their digital transformation. Digital Intelligence or Deepint.net is one such solution. It provides all the tools needed for the analysis of Big Data, ranging from ingestion, processing, filtering to analysis, creation of models for prediction, as well as dashboards for the representation of results. The Deepint.net platform enables entrepreneurs to save time and money, as the tool does not require expert use, the employees and the owners of the SME themselves, will not have to pay for expensive courses or use their time to learn about the operation of complex technologies. Instead, the tool's wizard will guide them through the data analysis process, and they will be able to focus on the end result of the analyses; the changes to be introduced, the problems to be solved.

Benefits for SMEs

SMEs can benefit from the Deep Intelligence tool in a number of ways. They can help SMEs get to know their customers better through extraction of data from social media and other websites in real time. Deepint.net can also create models to make recommendations regarding their customer strategy. SMEs which create customized products for their customers can use Deepint to take their business to another level thanks to data extraction. The tool can recommend certain

product customization options, depending on the data analysis of individual customers.

Thanks to the predictive capabilities of Deepint, businesses will be able to make informed decisions regarding their future actions, enabling them to prepare for future demand rise/fall depending on different variables, to increase their competitiveness in the future by adapting their products to future needs.

On the basis of the data collected from manufacturing operations, Deepint.net can help prevent anomalies in production which could lead to downtime through rapid notification of any changes in the operation of the devices.

Deepint can help SMEs become greener, which is also going to make them more competitive. SMEs can easily keep track of the impact they have on the environment through monitoring their CO2 emissions in different processes, they can then use this data to take measures that will help them decrease their environmental footprint [1-322].

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