Editorial

ata science has been established as a new paradigm in engineering, with a strong impact on both technical and business levels. Data science has been defined as a set of numerical calculations (methods and processes mainly) using tools and models known for a long time, but that in the last 10 years have been of particular interest and help thanks to the existence and availability at low cost of high-performance processors, and storage units for large amounts of data (terabytes, mainly in the cloud), which together with these tools manage to produce reliable results at low cost.

In engineering, data science is widely used as a support tool in the identification of failure patterns, in the design of predictive maintenance programs, in quality control, consumption statistics, and design of new equipment/services. At a technical level, it is usually related to custom-designed embedded devices with communication and interconnection (IoT) and high-performance processing capabilities. They correspond to the prelude to the next technological evolution in which individuals are integrated with artificial systems in search of services and connectivity in real-time. As it has been observed in the market, the industry trend is not focused on selling products, but on offering personalized technological services linked to the products. This trend is well observed in Apple Inc. and the online services offered with its products, or Tesla vehicles and their related navigation and power services. It is worth asking if this new trend is permeating the current processes of professional training in Colombia, as it is in the rest of the world.

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