

QUO VADIS TECHNOLOGY ADVANCE – PROSPECTS AND PROVOCATIONS

Ildiko Tulbure^{1,2,3}

¹”1 Decembrie 1918” University of Alba Iulia, Faculty for Informatics and Engineering, Unirii Str., 15-17, Alba Iulia, Romania, ²Technical University of Cluj-Napoca, Doctoral School for Environmental Engineering, Muncii Str., 103-105, Cluj-Napoca, Romania, ³Clausthal University of Technology, Adolph-Roemer-Str. 2A, Clausthal-Zellerfeld, Germany

Nowadays we live in the modern world, a technology-driven society. Beginning in around 1780, the first revolution focused on industrial production based on machines that were powered by steam and water, being *Industry 1.0*. Some 100 years later, the second industrial revolution was based on electrification and took place with mass production, representing *Industry 2.0*. Stepping forward another 100 years, to 1970, *Industry 3.0* saw automation using computers and electronics, being enhanced by globalization. We are currently living in the fourth industrial revolution, *Industry 4.0*, which is based on digitalization and includes automation, AI technologies, connected devices, Internet of Things, IoT, robotics, smart systems, and virtualization, digital transformation, smart cities, and more. The fifth industrial revolution, *Industry 5.0* has a focus on man and machines working together trying to consider increased resilience, a human-centric approach, and a focus on sustainability. Nevertheless, there are also negative sides of registered developments, which must be considered. Related to social communication in today’s technology-driven society it is to be remarked that time spent in social interactions has decreased dramatically in all familiar settings and social institutions. Rapidity is currently almost everywhere, starting with professional activities and ending with familiar ones, driven by technological advance made possible by *Artificial Intelligence*, *Machine Learning*, and *Data Science*. *Digital transformation* based on *digital leadership* has four central goals, customization, insight-driven manufacturing, incremental innovation, and digital innovation. Anyway, there is a need to consider ethical aspects in technology, such as misuse of personal information, in the future being a need for *ethical leadership* to a sustainable future.

References

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Corresponding author: Prof. Dr. Ildiko Tulbure

”1 Decembrie 1918” University of Alba Iulia, Faculty of Informatics and Engineering, Unirii Str. 15-17, Alba Iulia, RO-510009 Romania
e-mail: ildiko.tulbure@gmail.com

ORCID: 0000-0003-0258-6108