

THE IMPACT OF EMERGING AND DISRUPTIVE TECHNOLOGIES ON SOCIETY 5.0: INTERNET OF THINGS (IoT)

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Foreword: The topic of this scientific study was generated by the International Conference, organized in Sibiu, by the “Nicolae Bălcescu” Land Forces Academy together with the Military Sciences Section of the Romanian Scientists Academy, entitled “Emerging and Disruptive Technologies` Impact on Global Security”, which took place on November 18, 2021.

***Abstract:** In this scientific study, we have created a challenge on the research and knowledge of one of the five most emerging and disruptive technologies that pave the way for the world of tomorrow - the Internet of Things (IoT).*

Of the five technologies that are considered the most disruptive - Artificial Intelligence (AI), Blockchain, 3D Printing, Virtual / Augmented Reality (VR / AR) and the Internet of Things (IoT) - the last one mentioned here will be developed in this study.

This scientific study deals only with the most important aspects of the IoT field, where they are analyzed and presented: historic, evolutions, structure, operation, importance, benefits, implementation, advantages and disadvantages, evolution perspectives.

Using such systems, it is possible to improve the living standards of citizens, to provide users with a safer living environment and to benefit from the facilities offered by the implementation of the "smart city" concept.

Each of these systems brings in society many benefits and good results for people's lives, work and health of them, but also some unwanted use of the new malicious technologies.

Keywords: *Emerging technologies, disruptive technologies, digitization, the Internet of Things, artificial intelligence.*

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