Dissertation press release   **24.04.2020**

What hinders the full potential of the Internet of Things?

Title of the dissertation	Improving the Ubiquitous Capabilities of the Internet of Things
Contents of the dissertation	In recent years, the Internet of Things (IoT) has become a reality in our society. Its digital disruption has spread rapidly to various domains, ranging from home automation to healthcare to industrial manufacturing. Two of its most essential aspects resides in the broadly availability of the IoT devices and their fully connectivity to the Internet.
	However, despite this obvious benefit, these aspects has simultaneously become its main challenges. The decentralization of IoT, its heterogeneity in terms of protocols, technologies and communications, and its lack of standards has created several interoperability questions from the perspective of connectivity, management, and data processing. Furthermore, many of those challenges are scattered across the various layers of the Internet protocol stack making it difficult to identify the crucial mechanisms contributing to the cause.
	This dissertation identifies some of the most significant barriers that prevent IoT from developing to its full potential and proposes solutions to ensure complete adoption of IoT's capabilities on a wide scale.
Field of the dissertation	Computer Science, Internet of Things
Doctoral candidate	Oscar Novo Diaz, M.Sc.(Tech.)
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Opponent	Dr. Sasu Tarkoma, University of Helsinki, Department of Computer Science
Custos	Professor Antti Ylä-Jääski, Aalto University School of Science, Department of Computer Science
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