

Ensayo sobre IoT y IoE

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I. INTRODUCTION

According to an article published in 2015 reference as [?], even though it isn't quite new, it has an interesting approach about how the internet of things could be evolving in the near future and how it is perceived. It says that, the physical world itself is becoming a type of information system. Where everything being connected, objects itself can sense the environment and communicate, they become some sort of tools for understanding the complexity of the modern world and respond to it. What's revolutionary in all this is that these physical information systems are now beginning to be deployed, and some of them even work largely without human intervention.

II. OBJECTIVES

First we'll give some definitions.

A. *Internet of Things (IoT)*

From what I understand, IoT can be defined as the possibility of giving everyday objects the ability to identify themselves, by using sensors and actuators, and then communicate with other objects through wired and wireless networks, often using the same Internet Protocol (IP). These networks will carry high volumes of data for computers for analysis, and will return information that are valuable to us. Some types of applications for IoT are:

1) Consumer Type

- HomeAndOffice - Some examples are Smart Houses, Programmed Light, Smart consume.
- Wearables - IoWt (Internet of wearable things) they are usually small and are part of everyday use, also portable and highly responsive. Smart watches, Elders monitoring and voice control are some.

2) Commercial Type

- Medical care (quick and more accurate measurement)
- Transportation (smart parking)
- Construction and home automation (Control of energy consumption)

B. *Internet of Everything (IoE)*

IoE is like a IoT but amplified, because it covers a wider connectivity where network intelligence works as the main part. It is the intelligent integration and connection between 4 key elements:

- 1) People
- 2) Process
- 3) Data
- 4) Things

The main difference between IoT and IoE is that in IoE human intervention is needed, so a higher decision-making and business model also.

III. QUESTIONS

- What IoT/IoE Projects do you know? There's one that recently came to my attention, it assures to be the first IoT device, it can be referenced as [2]
- What IoT/IoE Projects have used?
- What IoT/IoE Projects have you developed?
- What IoT/IoE Projects do you want to develop?

IV. FUTURE PROJECTS/TECHNOLOGIES

V. CONCLUSIONS

A fascinating world of interconnection of objects, measuring variables, gathering information about the environment, about health, about our homes, and mostly about us. It is extremely important to develop knowledge in this area together with the idea of the importance of the security of this type of connection, how safe we can make the transmission of our information.

El internet de las cosas es mas que nada el futuro y evolucion del tan avanzado uso de la mayor red a nivel global, el internet, asi mismo el mundo de las comunicaciones va de la mano con el descubrimiento y acceso a la informacion, esto significa que garantiza que todo esta tecnología seguira en constante evolución hasta un punto en que todo este conectado , para que esto se lleve a cabo muy probablemente se encontraran mas formas de medir los datos a traves de sensores y actuadores, cada vez, mas sofisticados y puede ser que hasta mas baratos para mayor numero y alcance. Solo me deja pensando que si todo se encuentra conectado, ¿será mas facil para terceros el acceder a nuestra información confidencial?, ¿de verdad es buena idea dejar todo en manos de algo que puede en algun punto dado puede llegar a salirse de nuestro control?. (Me pareció importante dar una parte de la conclusion en español para abarcar mayor profundidad y poder explayarme un poco mas.)

REFERENCES

- [1] C. et al., "The internet of things," in *IoT*. McKinsey Company, 2010, pp. 3–4.
- [2] El primer dispositivo IoT de la historia fue una máquina de Coca-Cola. (s. f.). in <https://www.elladodelmal.com/2018/05/el-primer-dispositivo-iot-de-la.html>.