Enabling Edge Computing over LoRaWAN: A Device-Gateway Coordination Protocol

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Figure 1: Panoramic Photography of City Near Body of Water. Photo by Ralph Chang from Pixabay.

Abstract

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CCS Concepts

• **Computing methodologies** → **Animation**.

Keywords

this, that, other

*Equal contribution.

Craig-Boris '25, January 1–5, 2025, TBa, TAS, USA

ACM ISBN /25/01
https://doi.org/10.1145/3563045.3563055

ACM Reference Format:
Stephen Spencer, Stefano Milani, Francesca Cuomo, and Ioannis Chatzigiannakis. 2025. Enabling Edge Computing over LoRaWAN: A Device-Gateway Coordination Protocol. In *Craig-Boris '25: Craig's test event for Boris LaTeX Code 2 (Craig-Boris '25), January 1–5, 2025, TBa, TAS, USA.* ACM, New York, NY, USA, 2 pages. https://doi.org/10.1145/3563045.3563055

1 Introduction

The outcome in Brussels today signals a tough road ahead to secure commitments on climate action not only from European nations, but from other big polluters as well. New president of the European Commission Ursula von der Leyen just released the EU's Green Deal on December 11 [Hagerup et al. 1993], a sweeping package of policy proposals aimed at drastically reducing emissions by 2050. Her announcement followed the November declaration by the European Parliament of a "climate emergency"- a phrase that activists with Greenpeace hung from the building where the Council met in Brussels.

2 Another Section

GOES-17 went up to work with GOES-16, another NOAA weather satellite that was launched in 2016. The two probes, which are part of the so-called GOES-R series, are able to scan most of the Western Hemisphere from the coast of Africa all the way to New Zealand. Their observations from 22,300 miles (almost 36,000 kilometers) above Earth are key to monitor hurricanes, droughts, wildfires, lighting, and fog. The two spacecraft also provide us with stunning views of our planet.

2.1 Sample Subsection

Following biochar's recognition in the IPCC 2018 report, earlier this year Redmile-Gordon launched the society's first trials to see how the material could improve plant growth. He estimates planting 10-20kg of biochar in your garden could offset the carbon from a five-mile return commute in a car for a month. Biochar is a form of charcoal produced when organic matter – for example wood, leaves or dead plants – is heated at high temperatures with little or no oxygen in a process called pyrolysis. The normal burning or decomposition of these materials would release large amounts of methane and carbon dioxide into the atmosphere. Instead, creating biochar traps this carbon in solid form for centuries; it becomes a carbon sink that can be buried underground.

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The Taylor series expansion for the function e^x is given by

$$e^x = 1 + x + \frac{x^2}{2} + \frac{x^3}{6} + \cdots = \sum_{n\geq 0} \frac{x^n}{n!} \tag{1}$$

Sample Paragraph. GOES-17 went up to work with GOES-16, another NOAA weather satellite that was launched in 2016. The two probes, which are part of the so-called GOES-R series, are able to scan most of the Western Hemisphere from the coast of Africa all the way to New Zealand. Their observations from 22,300 miles (almost 36,000 kilometers) above Earth are key to monitor hurricanes, droughts, wildfires, lighting, and fog. The two spacecraft also provide us with stunning views of our planet.

(a) label 1

(b) label 2

Figure 2: Figs. Image by Stefan Schweihofer from Pixabay.

3 Conclusion and Future Work

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Acknowledgments

Thanks to Corporate Lorem - https://corporatelorem.kovah.de/ and "lipsum.com" - https://www.lipsum.com/ for the "Lorem Ipsum" text.

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