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

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

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Duis cursus placerat leo ac vehicula. Donec id dolor vel nunc maximus consectetur. Morbi pharetra, odio quis mattis gravida, orci dolor fermentum arcu, id tempus ante ante ut justo. Pellentesque fringilla orci a quam lacinia, non mollis orci blandit. Aliquam erat

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volutpat. Duis sit amet magna commodo, faucibus risus sed, dictum tortor. Cras porttitor facilisis libero non rutrum. Nullam dignissim velit a quam finibus, sed consectetur arcu mattis.

#### CCS Concepts: • Computing methodologies $\rightarrow$ Animation.

Additional Key Words and Phrases: this, that, other

#### ACM Reference Format:

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## 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.

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#### 2 Related Work

These companies are partners with NASA through the agency's Commercial Lunar Payload Services (CLPS) initiative. CLPS is the first phase of NASA's Artemis program, the agency's initiative to send the first woman and the next man to the Moon. But CLPS is focused on robotic vehicles and science, rather than human spaceflight. The goal is to send instruments and science experiments to the surface of the Moon using commercial landers that are developed and operated by private companies.

## 2.1 Sample Subsection 1

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## 2.2 Sample Subsection 2

The European Space Agency calls the crater a "cold trap," where air moving over the frigid ice is cooled, creating a kind of chilly barrier between the ice within the crater and warmer parts of the atmosphere - even in the summer. This isn't the first time that Korolev crater has had a moment in the spotlight. NASA snapped it making waves in the Martian clouds in 2003, and in April of this year, one of the first images the ESA's Trace Gas Orbiter captured was a gorgeous shot of the crater's rim.

2.2.1 Sample Subsubsection 1. The flight represents a breakthrough in "ionic wind" technology, which uses a powerful electric field to generate charged nitrogen ions, which are then expelled from the back of the aircraft, generating thrust. Steven Barrett, an aeronautics professor at MIT and the lead author of the study published in the journal Nature, said the inspiration for the project came straight from the science fiction of his childhood. "I was a big fan of Star Trek, and at that point I thought that the future looked like it should be planes that fly silently, with no moving parts – and maybe have a blue glow."

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Team	W	L	Pct	GB	Home	Away	L10
Astros	88	73	.547	-	46-35	42-38	6-4
Mariners	85	77	.525	3.5	49-32	36-45	8-2
Rangers	78	84	.481	10.5	44-37	34-47	5-5
Athletics	69	93	.426	19.5	38-43	31-50	3-7
Angels	63	99	.389	25.5	32-49	31-50	1-9

Table 1. American League West Standings, 2024

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Fig. 2. Figs. Image by Stefan Schweihofer from Pixabay.

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## 3 Another Section

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

$$e^x = 1 + x + \frac{x^2}{2} + \frac{x^3}{6} + \dots = \sum_{n>0} \frac{x^n}{n!}$$
 (1)

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- (1) This is the first item in the list.
- (2) This is the second item in the list.

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- This is the second item in the list.
- This is the last item in the list.

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Fig. 3. Street With People Walking during Night. Photo by Abby Chung from Pexels.

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Fig. 4. Gray Concrete Pathway Between Red-and-black Pillars. Photo by Vincent M. A. Janssen from Pexels.

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#### 5 One More Section, For Good Measure

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# 6 Conclusion and Future Work

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