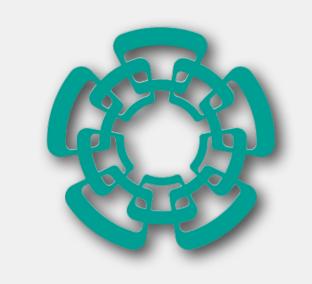


# Estrategias para la exploración coordinada multi-VANT

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CINVESTAV - UNIDAD TAMAULIPAS

Dr. Eduardo Arturo Rodriguez-Tello



### **Datos VANT**

Leer paper https://arxiv.org/pdf/1909.01423.pdf



- Fusce dapibus tellus vel tellus semper finibus. In consequat, nibh sed mattis luctus, augue diam fermentum lectus.[3]
   Fusce dapibus tellus vel tellus semper finibus. In consequat, nibh sed mattis luctus, augue diam fermentum lectus.[1]
- 4.14 4.12 4.12 4.10 4.08 20 Articulos 12
  - Fusce dapibus tellus vel tellus semper finibus. In consequat, nibh sed mattis luctus, augue diam fermentum lectus.[2]

# **Robot Autonomo**

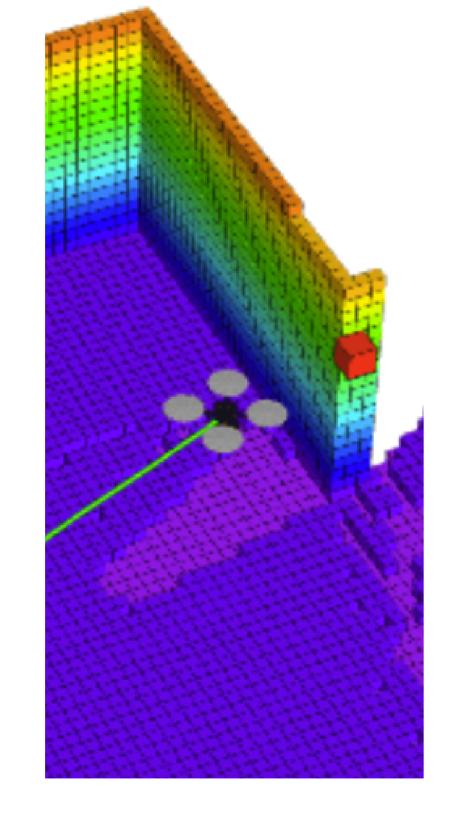
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### **Taxonomia VANT Multi-rotor**

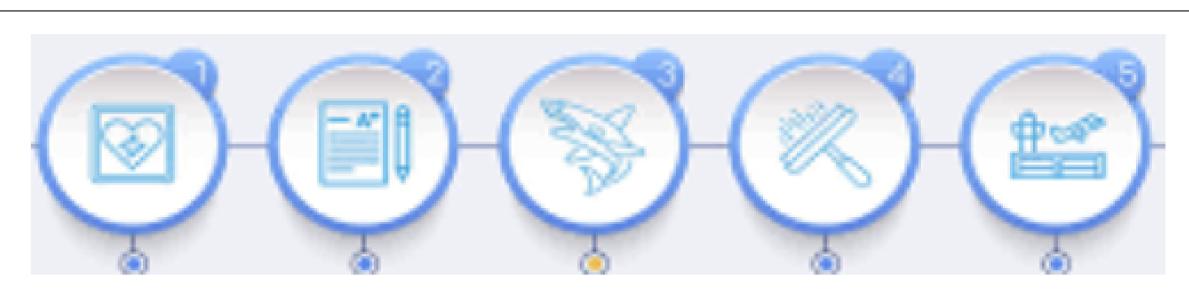
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- 3. **Vestibulum et massa diam**. Phasellus fermentum augue non nulla accumsan, non rhoncus lectus condimentum.

# Arquitectura Busqueda y Rescate

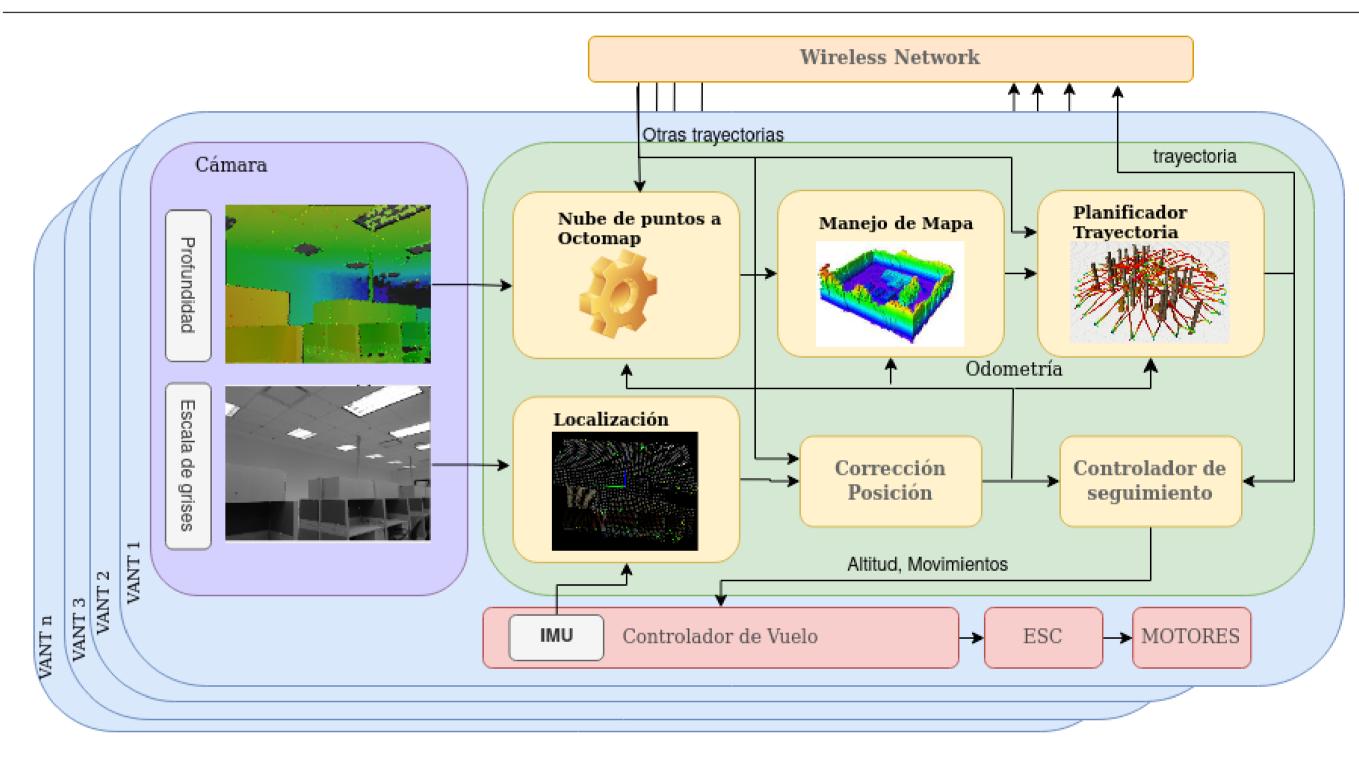
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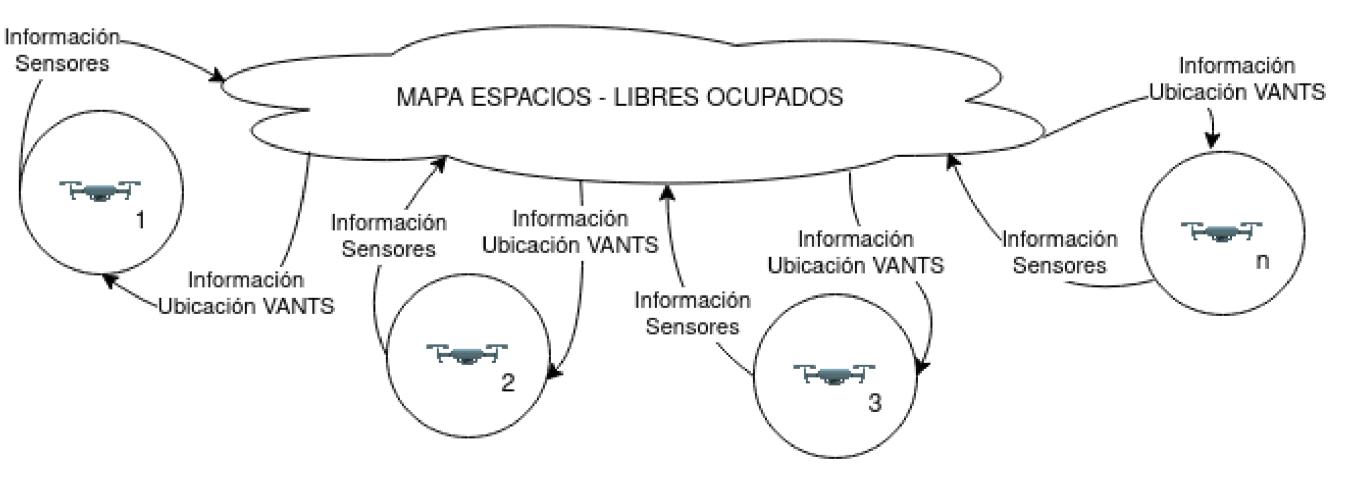
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# **Aplicaciones**



# Estrategia exploración coordinada





### Referencias

- [1] Ashten Akemoto and Frances Zhu.
- Informative path planning to explore and map unknown planetary surfaces with gaussian processes. In 2022 IEEE Aerospace Conference (AERO), pages 1–12, 2022.
- [2] Yixin Jiang, Lingyun Zhou, Yijia Tang, Ya Tu, Chunhong Liu, and Qingjiang Shi. A collaborative jamming algorithm based on multi-uav scheduling, 2023.
- [3] Claude E. Shannon.
- A mathematical theory of communication.

  Bell System Technical Journal, 27(3):379-423, 1948.