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A Multi-Dimensional Fleet of Intelligent Mobile Plants for Unknown Territory Exploration

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Abstract: With the use of multiple drones and robots carrying plants, unknown territory can be explored in order to find resources for relocation. As the search for extraterrestrial land begins to be more urgent, there is a need for a way to explore these unknown territories without the need of sending humans. With the use of ground robots and drones, it is possible to search these territories for signs of resources that plants thrive in. Using this method, plants can be transported to locations of these resources in hopes of possibly being able to terraform these locations. Multiple ground robots will search for resources while carrying and monitoring a plant with the use of multiple sensors. A drone will be used as a central command center to search for resource locations as well as hold all resource locations to direct ground bots to requested resources. With this system, autonomous exploration as well as the transportation of plants can be combined in an efficient manner. This can be later be extended to the idea of transporting other lifeforms throughout unknown territory.