# Contents



# 1 Resumen

Decisions are part of our daily lives, and it appears as if some kind of process is evaluating second to second all of our options. In all of such situations a big question arises, should I go for the well-known option or should I take my chances a look for a new one?. This **exploration-exploitation dilemma** is also present in both, foraging for resources and **semantic search**. As such, both problems can be seen as decision-making processes where resources and semantic contents locations are unknown, and somehow one must establish an efficient criterion for searching in an efficient way. Certain search patterns, which are ubiquitous across many taxa, seems to provide an optimal way for foraging through a previously unknown environment. Given that both semantic search and foraging share similarities, an evolutionary co-option of the mechanisms controlling foraging for semantic search is discussed. Underlying strategies for searching through patchy environments, neural implementations of exploration-exploitation control and internal aspects of foraging are discussed in hopes of providing an evolutionary framework for semantic search research.

# 2 Tabla de contenido

# 3 Índices de ilustraciones