Optimal Allocation of Dynamically Batched Service Providers and Service Requesters

Abstract

Example embodiments relate generally to methods of managing service requests. The method includes establishing a time period and identifying service requests received during the time period. Each identified service request includes an origin location. The method also includes identifying service providers, each having a current service provider location and availability status. The method also includes establishing a service request geographical region and service provider geographical region. The method also includes selecting candidate service requests from the identified service requests. Each candidate service request has its origin location within the service request geographical region. The method also includes selecting candidate service providers from the identified service providers. Each candidate service provider has its current service provider location within the service provider geographical region. The method also includes performing a matching process to match candidate service requests with candidate service providers.

[Figure 3A]