

## **Mining the Most Influential k-Location Set From Massive Trajectories**

### **Abstract:**

Advances in location acquisition technology have resulted in massive trajectories, representing the mobility of a diversity of moving objects, such as human, vehicles, and animals. As a consequence, many techniques have been proposed for processing and mining trajectory data with a broad range of applications over the last decade, ranging from trajectory pattern mining trajectory classification and clustering trajectory outlier detection to location-based services.

### **Existing System:**

Mining the most influential location set finds  $k$  locations, traversed by the maximum number of unique trajectories, in a given spatial region. These influential locations are valuable for resource allocation applications, such as selecting charging stations for electric automobiles and suggesting locations for placing billboards. This problem is NP-hard and usually calls for an interactive mining processes involving a user's input, e.g., changing the spatial region and  $k$ , or removing some locations (from the results in the previous round) that are not eligible for an application according to the domain knowledge. Efficiency is the major concern in conducting this human-in-the-loop mining.

### **Disadvantages:**

- Less efficiency
- High work loads
- Low performance

### **Proposed System**

We intend a complete mining framework, which includes an optimal method for the light setting (i.e., small region and  $k$ ) and an approximate method for the heavy setting (i.e., large region and  $k$ ). The optimal method leverages vertex grouping and best-first pruning techniques to expedite the mining process. The approximate method can provide the performance guarantee by utilizing

the greedy heuristic, and it is comprised of efficient updating strategy, index partition and workload-based optimization techniques.

### **Advantages**

- More efficiency
- Optimized work loads
- High performance

### **Modules**

- Optimal location set mining
- Approximate location set mining

## **SYSTEM REQUIREMENTS**

### **H/W System Configuration:-**

Processor	-	Pentium –III
RAM	-	256 MB (min)
Hard Disk	-	20 GB
Key Board	-	Standard Windows Keyboard
Mouse	-	Two or Three Button Mouse
Monitor	-	SVGA

### **S/W System Configuration:-**

Operating System	:	Windows95/98/2000/XP
Application Server	:	Tomcat5.0/6.X
Front End	:	HTML, Jsp
Scripts	:	JavaScript.
Server side Script	:	Java Server Pages.

Database : MySQL 5.0

Database Connectivity : JDBC

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