Abstract

Mobility is the key in a globalized world where people, goods, data and even ideas move in increasing speeds over increasing distances. For representing a particular moving object in a database, examining the position of the moving object would be in focus. To analyze the particular, we create a framework so that it can represent the relevant moving object and its position over the time. Since moving object data is tested in several different real data sets, it
will benefit moving objects data owners to carry out various kinds of analysis on their data. Thus, we relate the whole moving object data mining with granular computing to make a flexible and scalable analysis of targeted moving object data. Granular Computing provides a conceptual framework for studying many issues in data mining for moving object databases. This paper examines those issues, including mining object data and related knowledge representation and processing. It is demonstrated that one of the fundamental task of data mining is searching for the right level of granularity in moving object data and knowledge representation. On that basis, it makes the granules in the process of problem solving for modelling the human thinking process.

References

- Zhenhui Li, Jiawei Han, Ming Ji, Lu-An Tang, Yintao Yu, Bolin Ding, Jae-Gil Lee, Roland Kays, "MoveMine: Mining Moving Object Data for Discovery of Animal Movement Patterns", ACM Journal Volume 1, 2010, pp 111–146.
- Zhenhui Jessie Li, "Mining Moving Objects and Cyber-Physical Networks".
- Ding Shifei, Xu Li, Zhu Hong, Zhang Liwen "Research and Progress of Cluster Algorithms based on Granular Computing", International Journal of Digital Content Technology and its Applications Volume 4, Number 5, August, 2010
- Tuan-Fang Fan and Churn-Jung Liau, "A Logical Formulation of the Granular Data Model", 2008 IEEE International Conference on Data Mining Workshops
Wild Life Protection By Moving Object Data Mining - Discover with Granular Computing


Index Terms

Computer Science
Emerging Trends in Technology

Keywords

Moving Object Databases  Granular Computing  Data Mining