



# **Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science)**

*Marcos R. Vieira, Vassilis Tsotras*

[Download now](#)

[Click here](#) if your download doesn't start automatically

# Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science)

*Marcos R. Vieira, Vassilis Tsotras*

## **Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science)**

Marcos R. Vieira, Vassilis Tsotras

This brief presents several new query processing techniques, called complex motion pattern queries, specifically designed for very large spatio-temporal databases of moving objects. The brief begins with the definition of flexible pattern queries, which are powerful because of the integration of variables and motion patterns. This is followed by a summary of the expressive power of patterns and flexibility of pattern queries. The brief then present the Spatio-Temporal Pattern System (STPS) and density-based pattern queries. STPS databases contain millions of records with information about mobile phone calls and are designed around cellular towers and places of interest. Density-based pattern queries capture the aggregate behavior of trajectories as groups. Several evaluation algorithms are presented for finding groups of trajectories that move together in space and time, i.e. within a predefined distance to each other. Finally, the brief describes a generic framework, called DivDB, for diversifying query results. Two new evaluation methods, as well as several existing ones, are described and tested in the proposed DivDB framework. The efficiency and effectiveness of all the proposed complex motion pattern queries are demonstrated through an extensive experimental evaluation using real and synthetic spatio-temporal databases. This clear evaluation of new query processing techniques makes Spatio-Temporal Database a valuable resource for professionals and researchers studying databases, data mining, and pattern recognition.

 [Download Spatio-Temporal Databases: Complex Motion Pattern ...pdf](#)

 [Read Online Spatio-Temporal Databases: Complex Motion Patter ...pdf](#)

## **Download and Read Free Online Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science) Marcos R. Vieira, Vassilis Tsotras**

---

### **From reader reviews:**

#### **Mark Hofmeister:**

This book untitled Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science) to be one of several books that best seller in this year, here is because when you read this reserve you can get a lot of benefit onto it. You will easily to buy this kind of book in the book shop or you can order it by using online. The publisher of the book sells the e-book too. It makes you quickly to read this book, since you can read this book in your Touch screen phone. So there is no reason to your account to past this publication from your list.

#### **Gregory Throop:**

The guide untitled Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science) is the book that recommended to you to see. You can see the quality of the book content that will be shown to a person. The language that author use to explained their ideas are easily to understand. The copy writer was did a lot of research when write the book, to ensure the information that they share to your account is absolutely accurate. You also could get the e-book of Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science) from the publisher to make you considerably more enjoy free time.

#### **Jessica Bradburn:**

Playing with family in a park, coming to see the sea world or hanging out with good friends is thing that usually you will have done when you have spare time, subsequently why you don't try thing that really opposite from that. One particular activity that make you not sense tired but still relaxing, trilling like on roller coaster you are ride on and with addition info. Even you love Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science), it is possible to enjoy both. It is very good combination right, you still need to miss it? What kind of hang-out type is it? Oh can happen its mind hangout folks. What? Still don't buy it, oh come on its identified as reading friends.

#### **Megan Jordan:**

Do you have something that you want such as book? The book lovers usually prefer to decide on book like comic, short story and the biggest some may be novel. Now, why not seeking Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science) that give your pleasure preference will be satisfied simply by reading this book. Reading practice all over the world can be said as the opportunity for people to know world a great deal better then how they react towards the world. It can't be mentioned constantly that reading habit only for the geeky person but for all of you who wants to always be success person. So , for every you who want to start reading as your good habit, it is possible to pick Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science) become your own personal starter.

**Download and Read Online Spatio-Temporal Databases: Complex  
Motion Pattern Queries (SpringerBriefs in Computer Science)  
Marcos R. Vieira, Vassilis Tsotras #IL6RJO0PA47**

## **Read Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science) by Marcos R. Vieira, Vassilis Tsotras for online ebook**

Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science) by Marcos R. Vieira, Vassilis Tsotras Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science) by Marcos R. Vieira, Vassilis Tsotras books to read online.

## **Online Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science) by Marcos R. Vieira, Vassilis Tsotras ebook PDF download**

**Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science) by Marcos R. Vieira, Vassilis Tsotras Doc**

**Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science) by Marcos R. Vieira, Vassilis Tsotras Mobipocket**

**Spatio-Temporal Databases: Complex Motion Pattern Queries (SpringerBriefs in Computer Science) by Marcos R. Vieira, Vassilis Tsotras EPub**