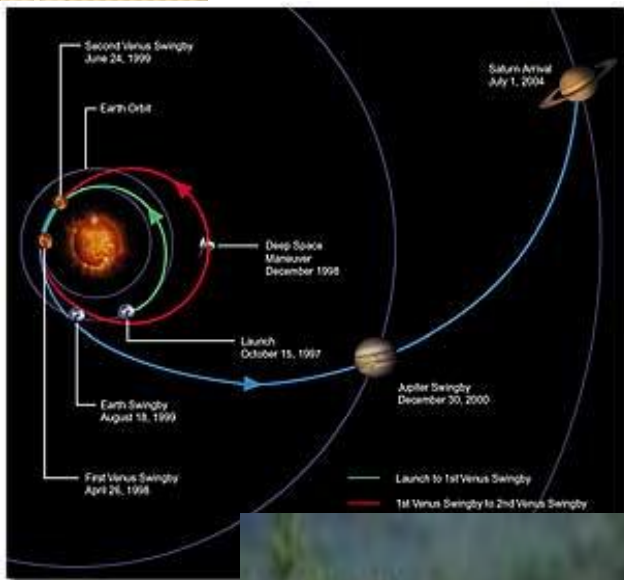# Hurricanes in Texas and Florida; Fires in California and Wyoming
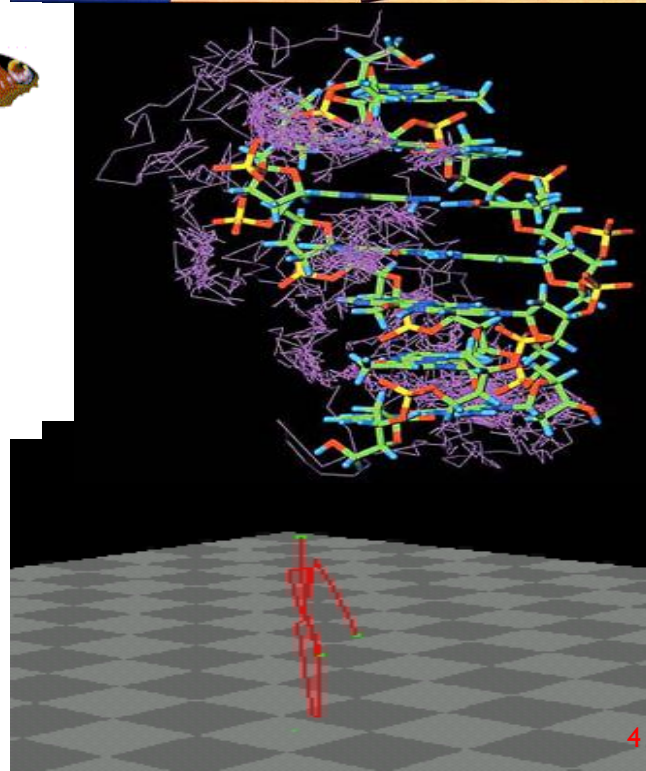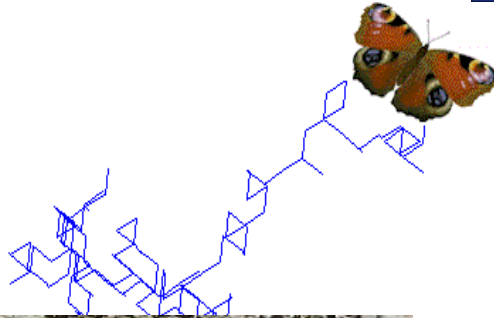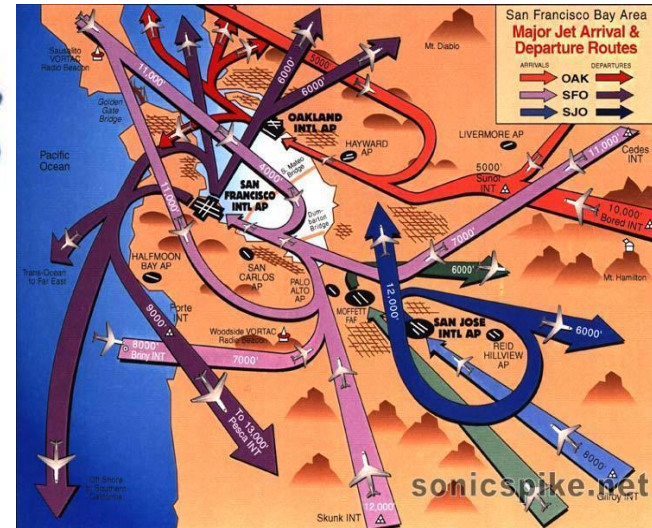
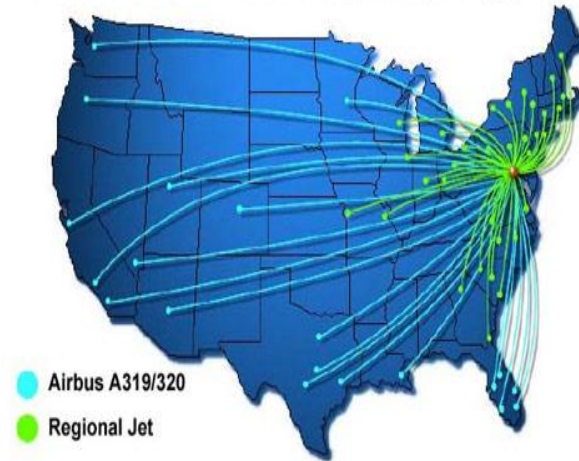- What does it mean to say that they have *similar motions*?

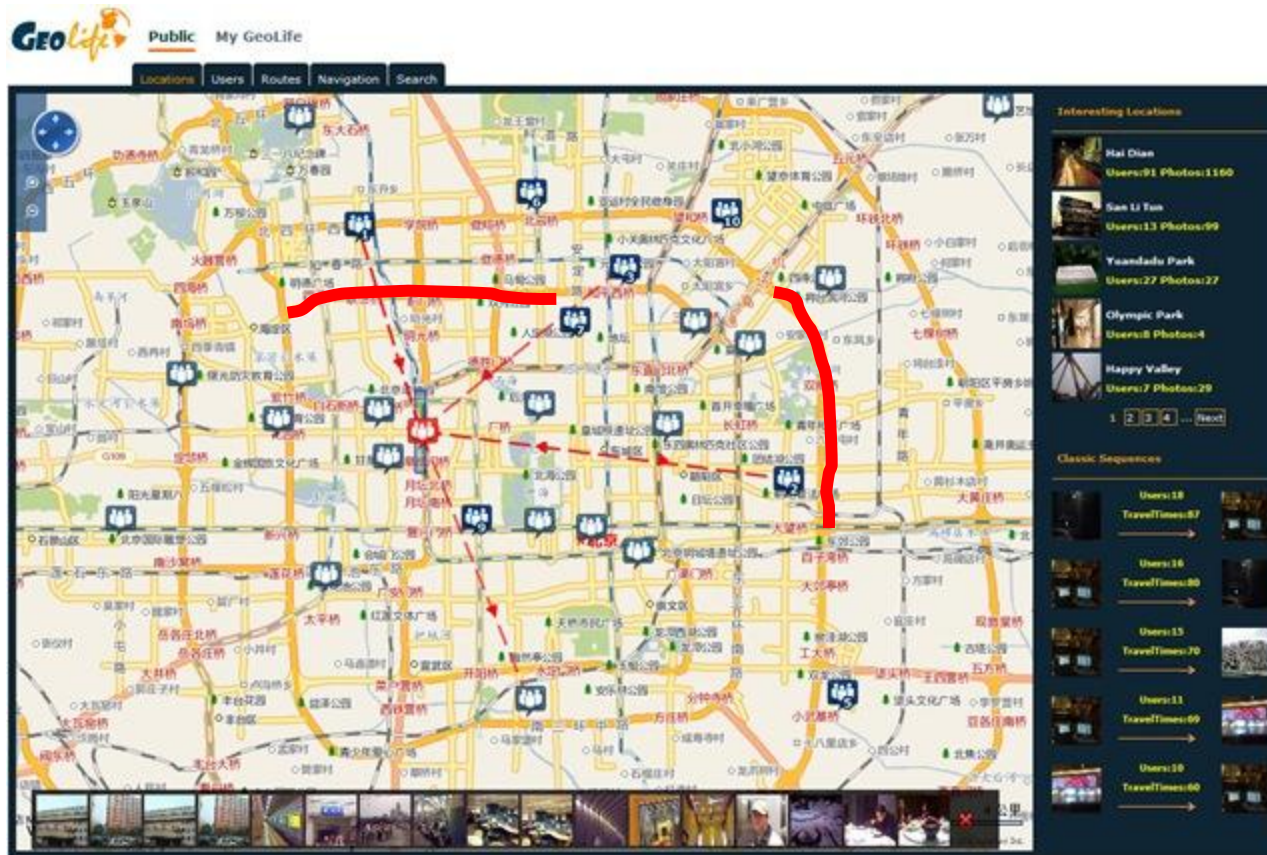# Trajectories are everywhere

- Plethora of Application Domains:
  - Traffic Management

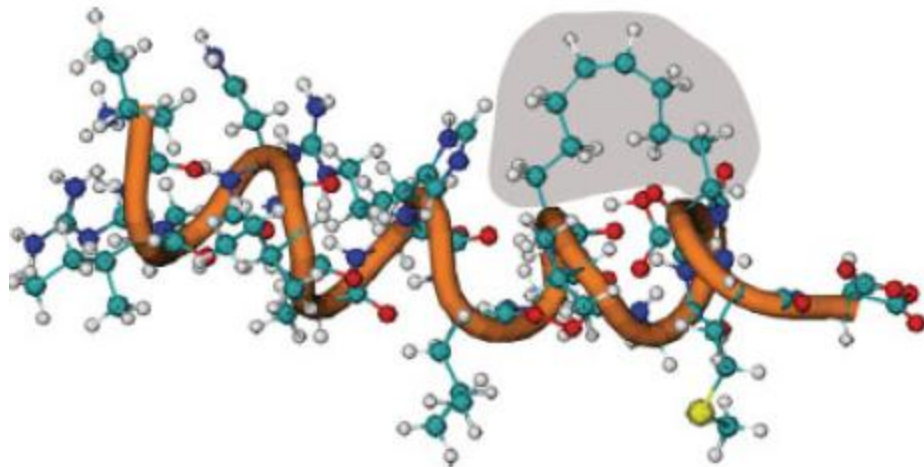Retrieve all the ambulances which had **similar delays** patterns during the rush hours in the last 6 months

Plethora of Application Domains:

- Video analysis

Abnormal events detection;
Counting Pedestrians
(based on similar trajectories clustering)

- Plethora of Application Domains:
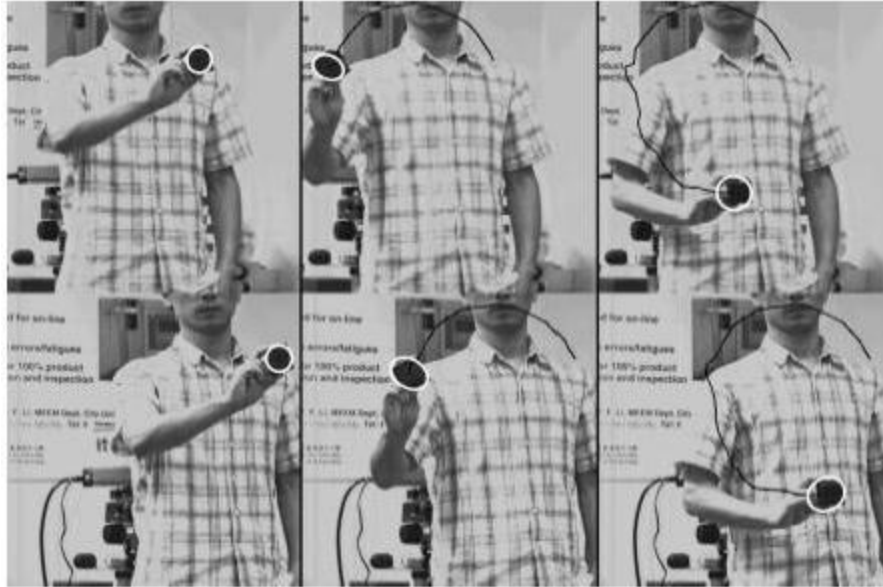 - Molecular Design

Are there any similar distributions in the molecular dynamics trajectories?

Are the motions of (sets of) cells similar?

- # Plethora of Application Domains:
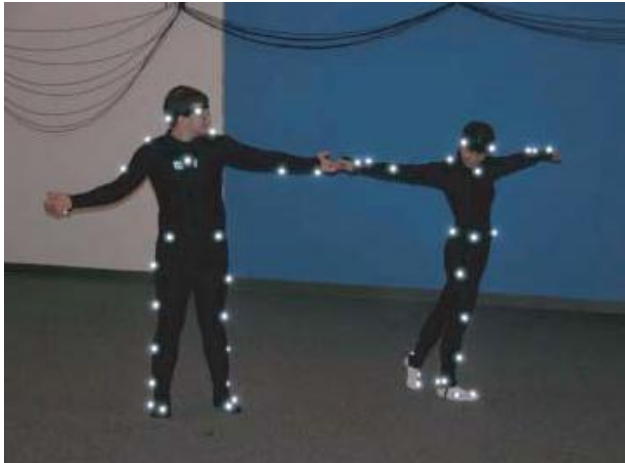 - ## "Signature" of Human Motions

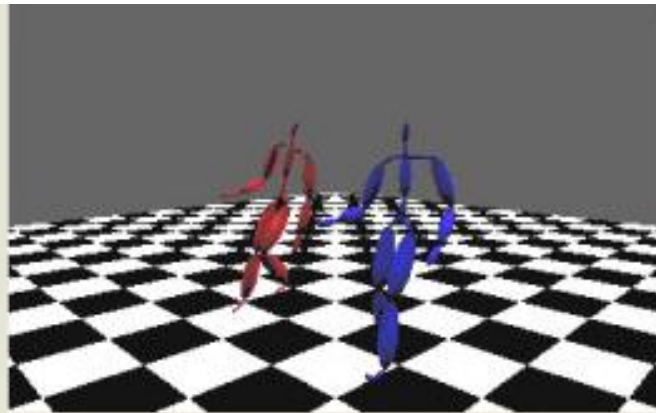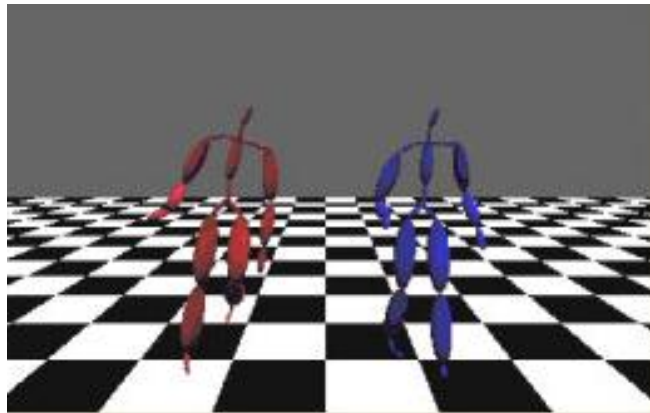Are there any descriptive invariants that can be deduced from the trajectory signature?
Can they be attributed to the computational locality of the motion components?
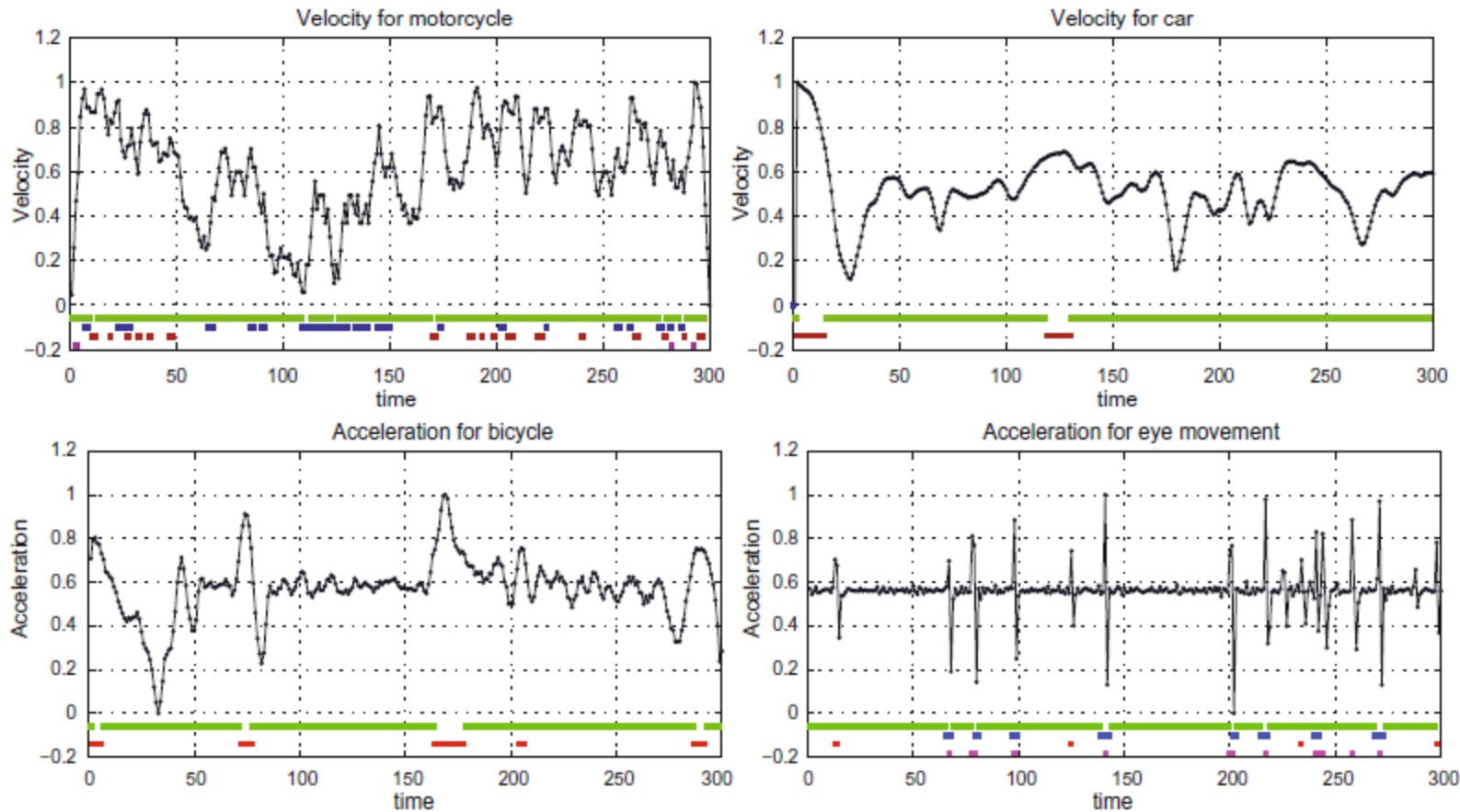
- ## Plethora of Application Domains:
  - ### Similarity of Human Motion

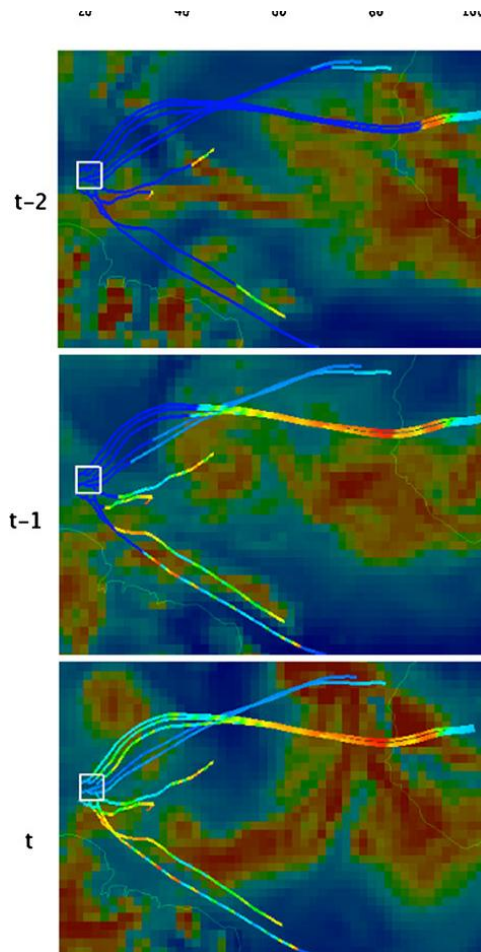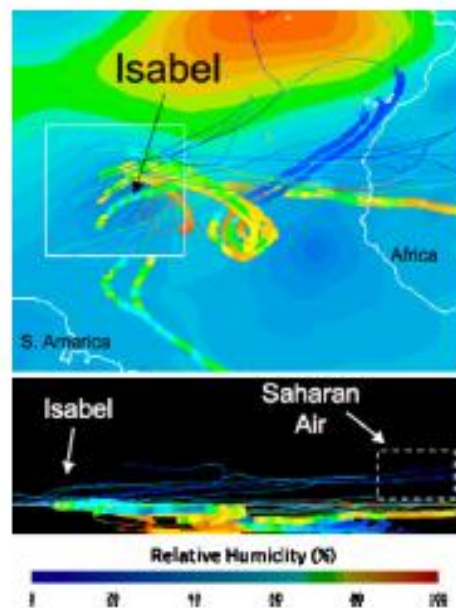What does it mean to say that two motions are perceptually-similar?

- Plethora of Application Domains:
  - Similarity of Motions in Different Contexts – what should we use as a "measure"(?)

Similar Sinuosity…

- # Plethora of Application Domains
  - ◦ Smart Phones tracking (twist of privacy)

  - ◦ Similarity of Meteorological Phenomena
    - • Humidity tracking