

# Towards Parallel Detection of Moving Flock Patterns in Large Spatiotemporal Datasets

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# Agenda

## 1 Background

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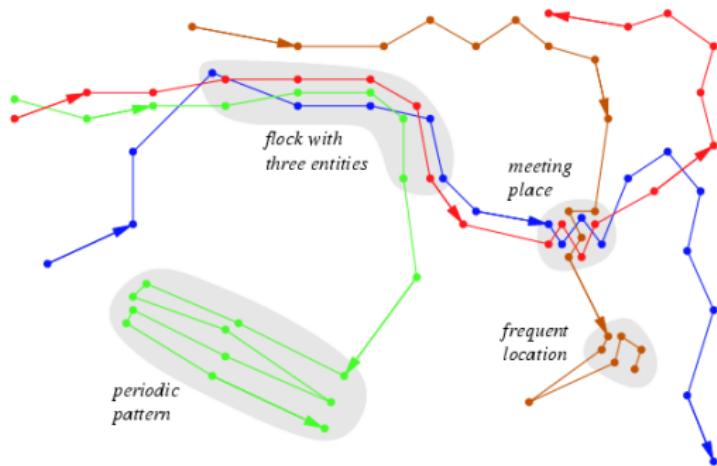
# Trajectory Datasets

- They know where you are...
  - Smart phones, GPS, RFID, WiFi...



# Movement patterns

- A new set of rich and interesting movement patterns...



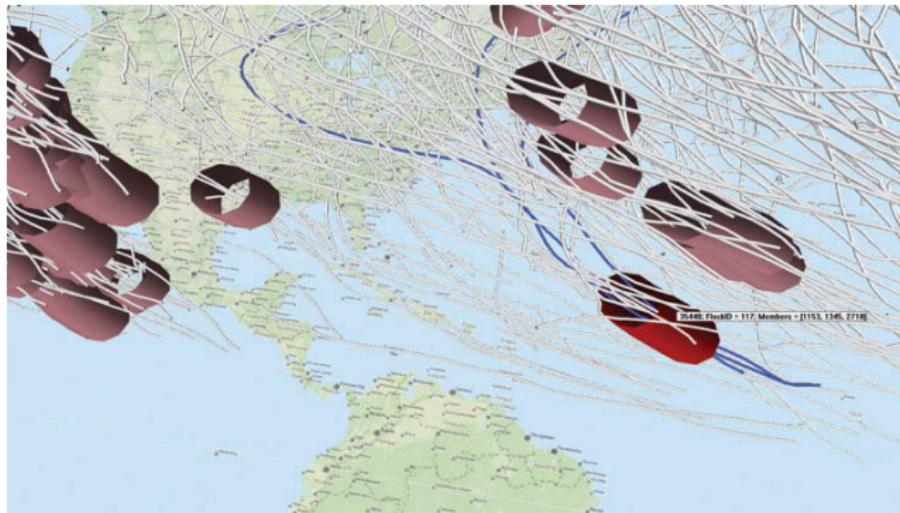
# Applications

- Integrated transportation systems...



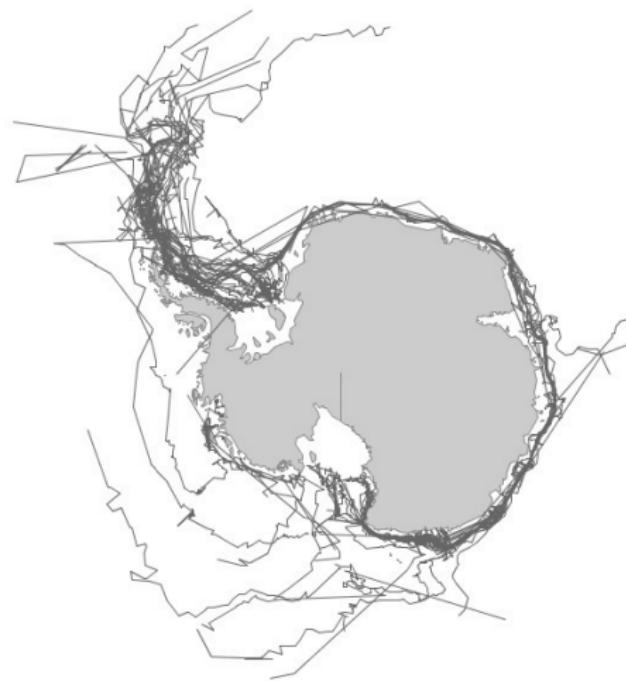
# Applications

- Tropical cyclones path similarity...



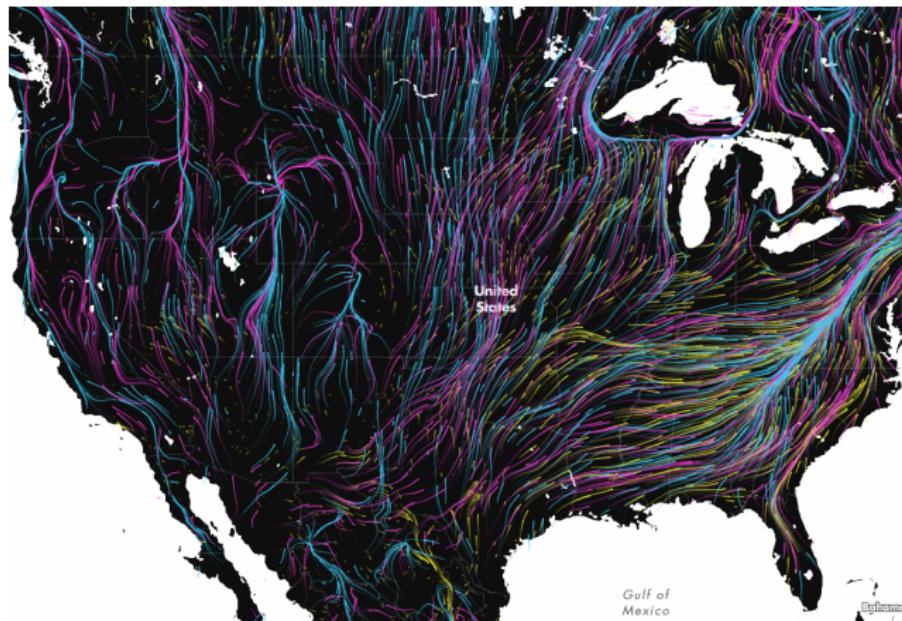
# Applications

- Iceberg movement...



# Applications

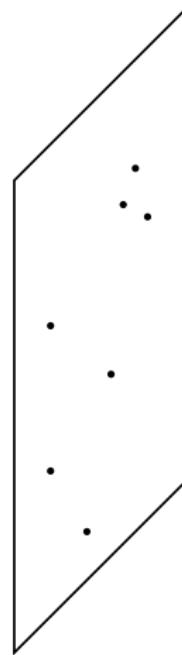
- Ecology...



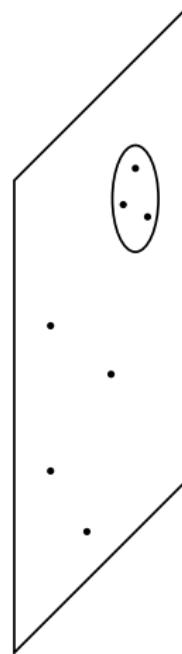
# Applications

- Ecology...

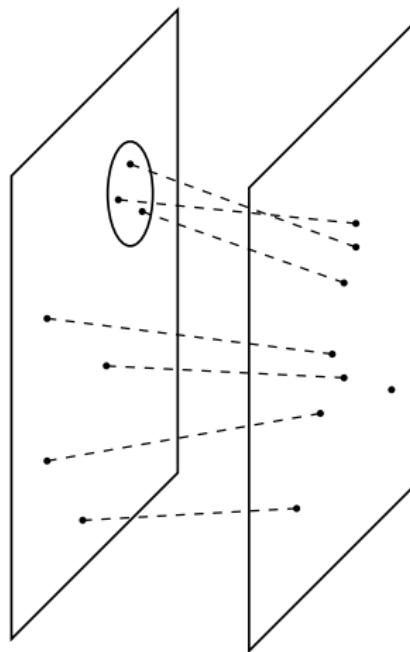
# Flock example



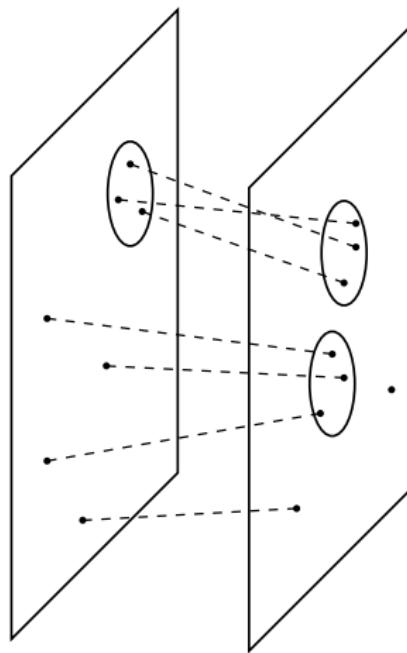
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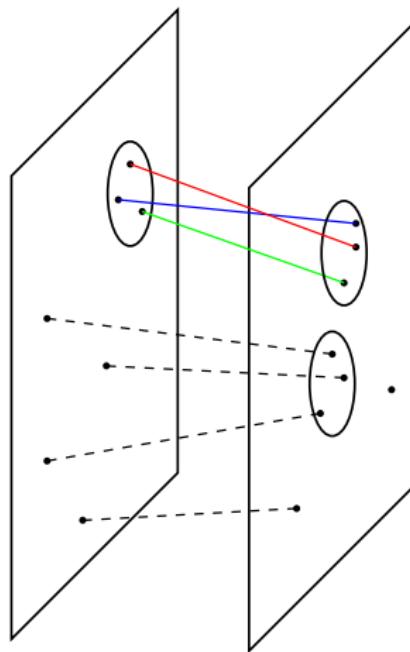
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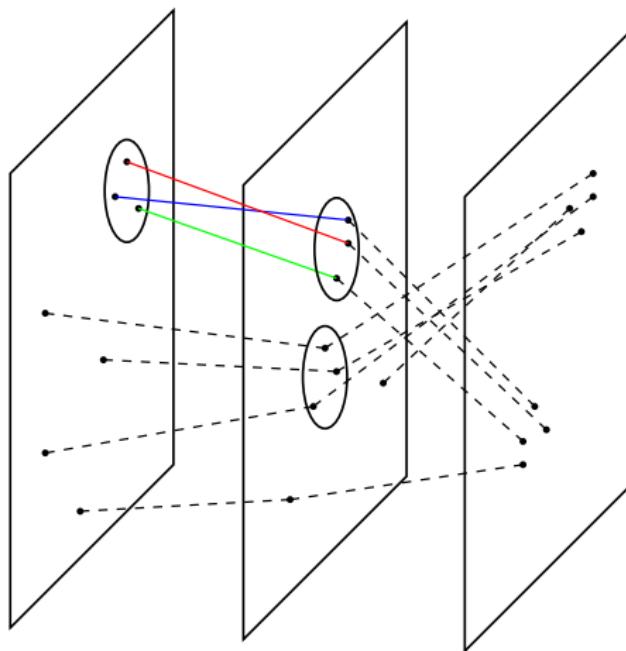
# Flock example



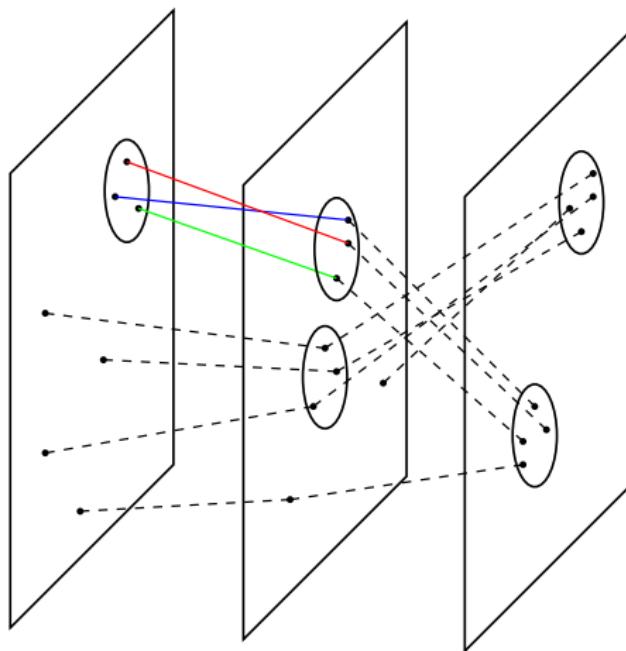
# Flock example



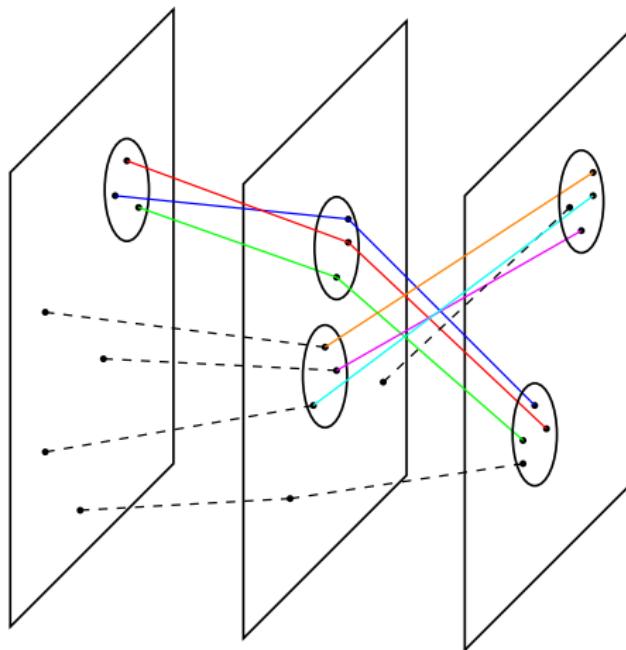
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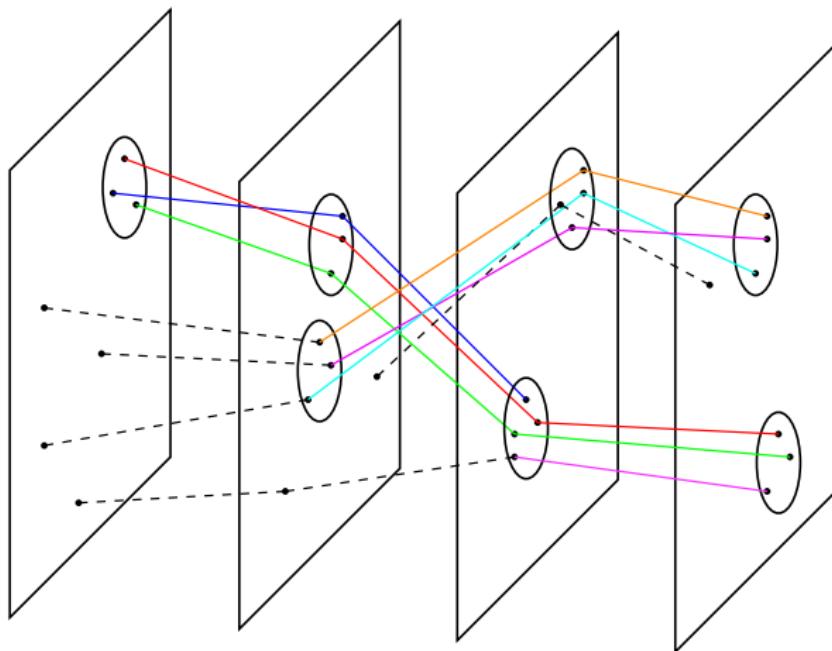
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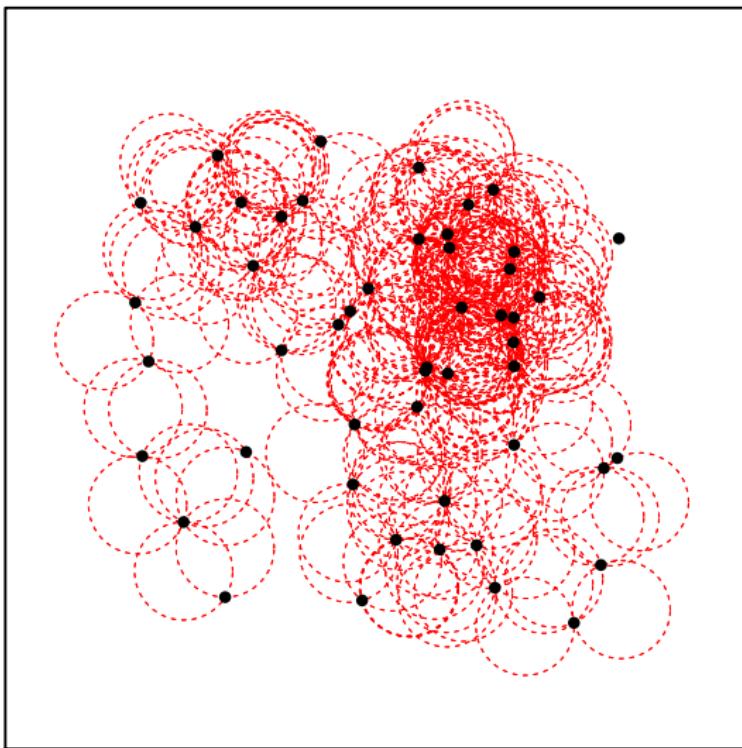
# Flock example



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# Finding maximal disks...



# Thank you!!!

Do you have any question?