

# **Pessimistic or “opportunistic” about MobiOpp research?**

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**ACM MobiOpp 2010 Panel**

The pessimist's view

What defines you?

Your are “out of touch”  
and so disconnected!

It's an interesting space but has  
no application and commercial  
future!

If you can't run streaming video  
over the network then why the  
hell use it!

You're just a paper machine!

You're only working on this  
because NSF/EU have a call  
for proposals!

The opportunist's view

Your are “out of touch”  
and so disconnected!

Yes, that is right.

It's an interesting space but has  
no application and commercial  
future!

They said that about the  
Internet too bud.

If you can't run streaming video  
over it then why the hell use it!

You can.

But the frame rate is slow.

Think of a video frame as  
an atomic unit and it works!

You're just a paper machine!

They said that about MANET too!

You're only working on this  
because NSF/EU have a call  
for proposals!

NO, that is NOT true.

I lied. You're right.

As people we are “opportunistic”

Everything is opportunistic.

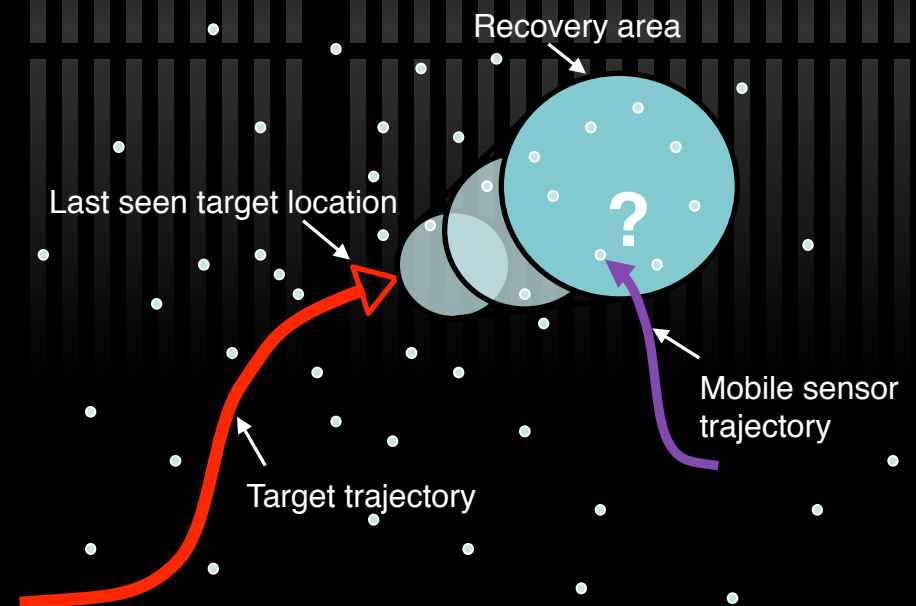
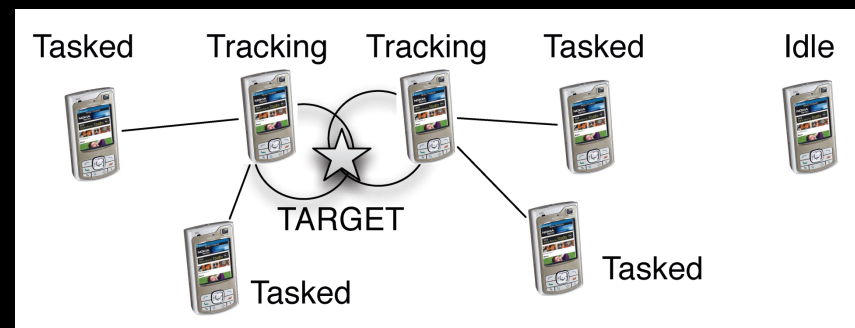
# Opportunistic sensing



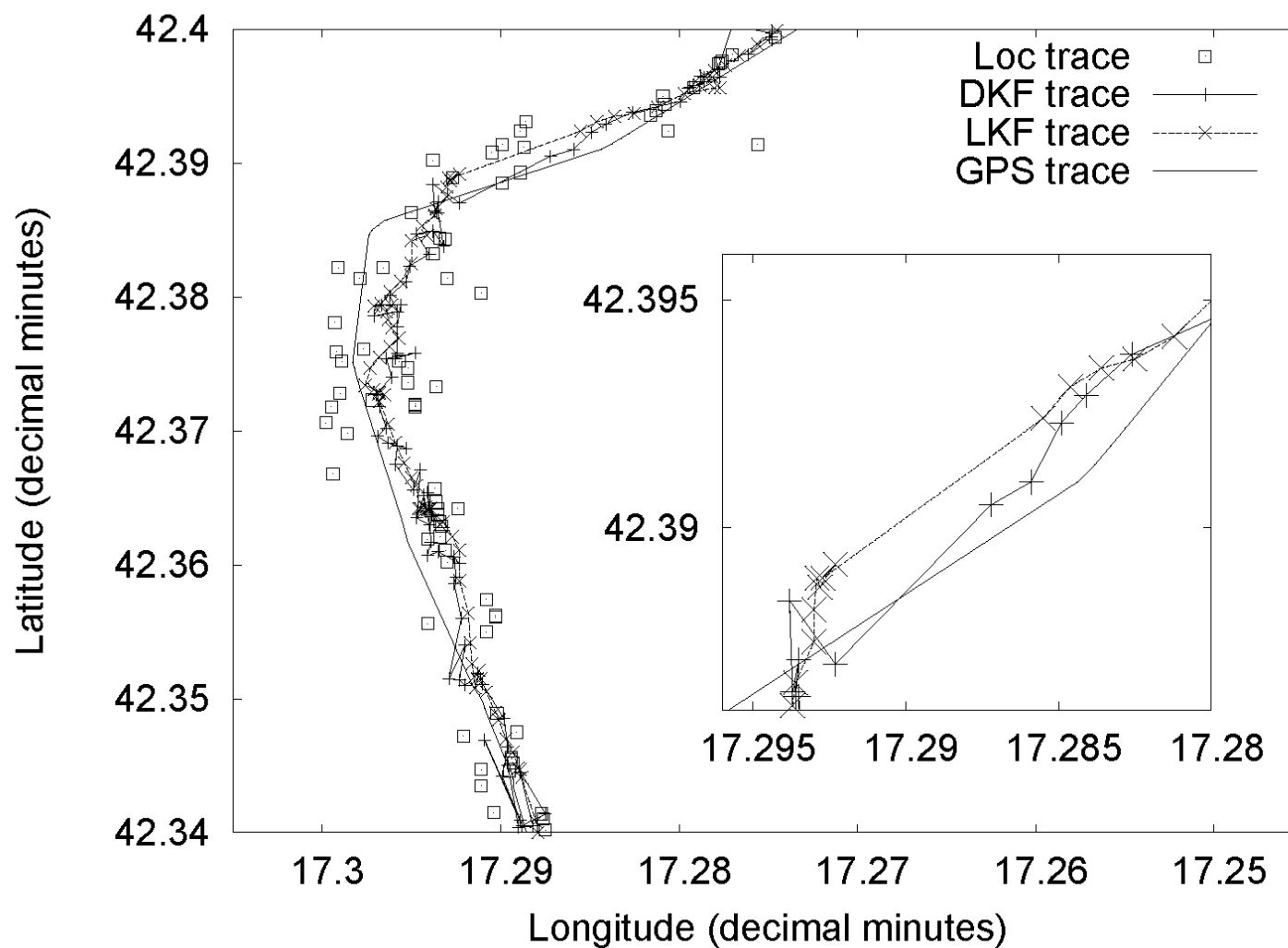
# MetroTrack

## Tasking and Recovery

- Information-driven Tasking
  - Nodes that have sensed the event forwards the task their one-hop neighbors (local decision without a leader)
- Prediction-based Recovery
  - Distributed Kalman Filter predicts the lost target's location and decide the recovery region (location + error margin)
  - Geographic forwarding (geocast) without a leader



# Target location trace





Thanks