

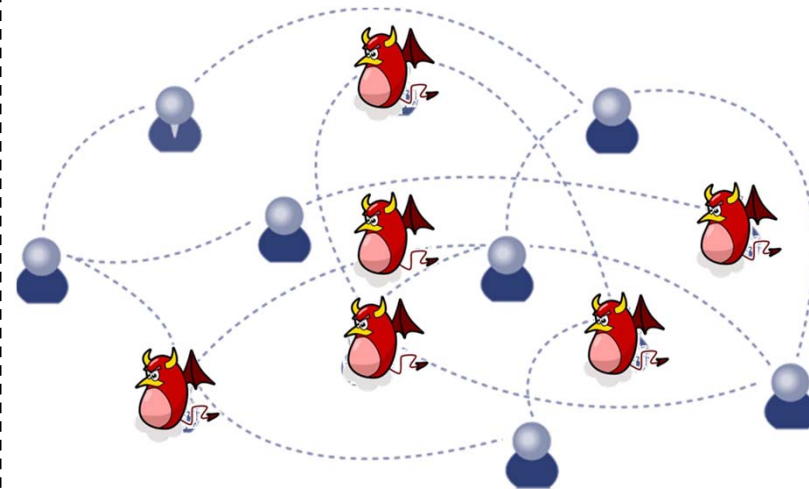
# Challenges in streaming temporal and spatial network data

First SysSec workshop, BiC session:  
Building a long-term INCO strategy in  
Trustworthy ICT

# Topic 3: Challenges

- Fast **streaming** of **huge** temporal and spatial network data.
- **Mapping** the operational (application) information architecture to **statistical** data stream **patterns**.
  - Identifying **strange** behavior.
    - Ex: interaction networks (power law distribution, clustering, ..)

## Antisocial Behavior in Social Networks



Adversaries' streams exhibit fundamentally different statistical properties compared with normal streams.

## Computer Science and Engineering Department

*Distributed and Parallel Computing and Systems + Computer Security groups*

- <http://www.cse.chalmers.se/research/group/dcs/>
- <http://www.chalmers.se/cse/EN/research/research-groups/computer-security>
- Networking – general, sensor, application-level (peer-to-peer overlays): clustering/matching, coordination, ...
- Parallel computing systems: parallel processing, efficient synchronization, shared data structures, run-time system services, ...

