TDDE48: Mobile Networks

Linkoping University, Sweden, Fall 2024

Niklas Carlsson
https://www.ida.liu.se/~nikca89/

People involved in course

- Examiner and lecturer
  - Niklas Carlsson, Senior Associate Professor

- Course secretary
  - Annelie Almquist

- Director of studies
  - Patrick Lambrix, Professor + Division Head

Research group overview

Group leader: Niklas Carlsson (Senior Associate Professor)

Interest/aims: Provide system insights and solutions that help deliver tomorrow's services both effectively and securely

Methodologies: E.g., measurement, mathematical modeling, optimization, system design, real-world experiments, data analytics, statistical methods

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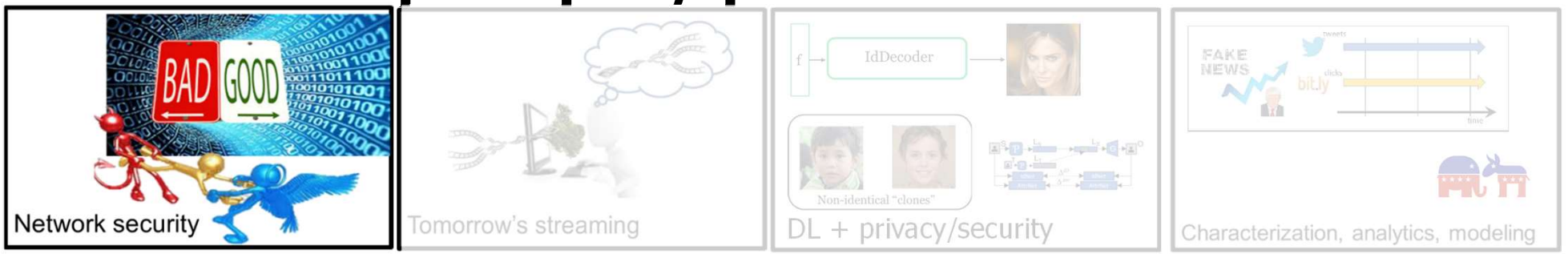

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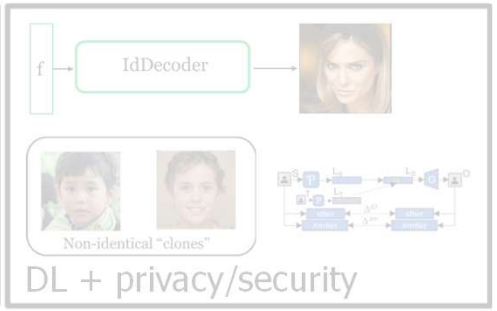

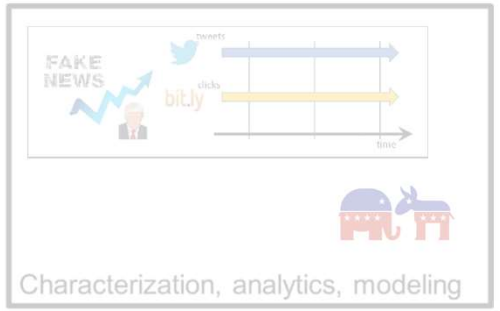

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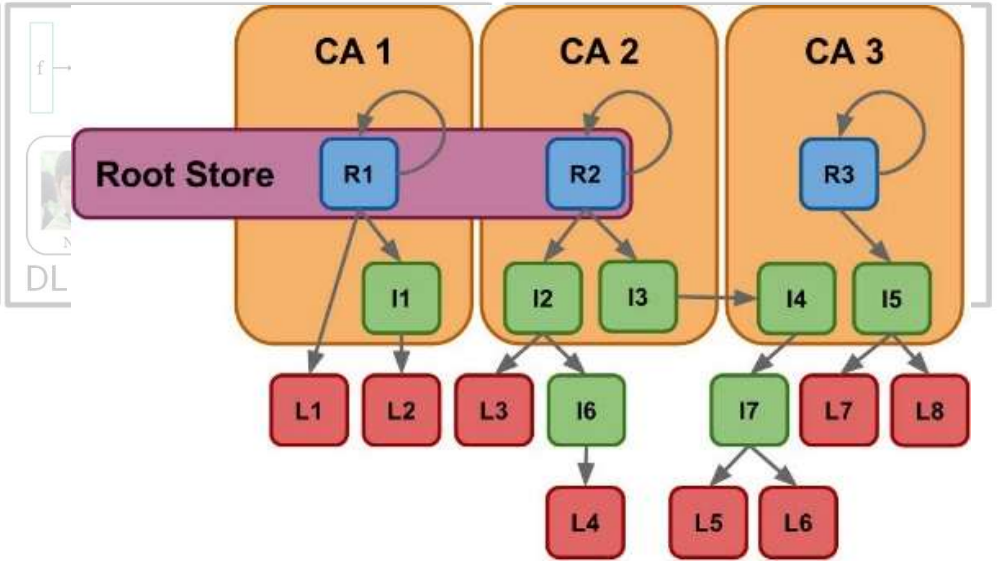

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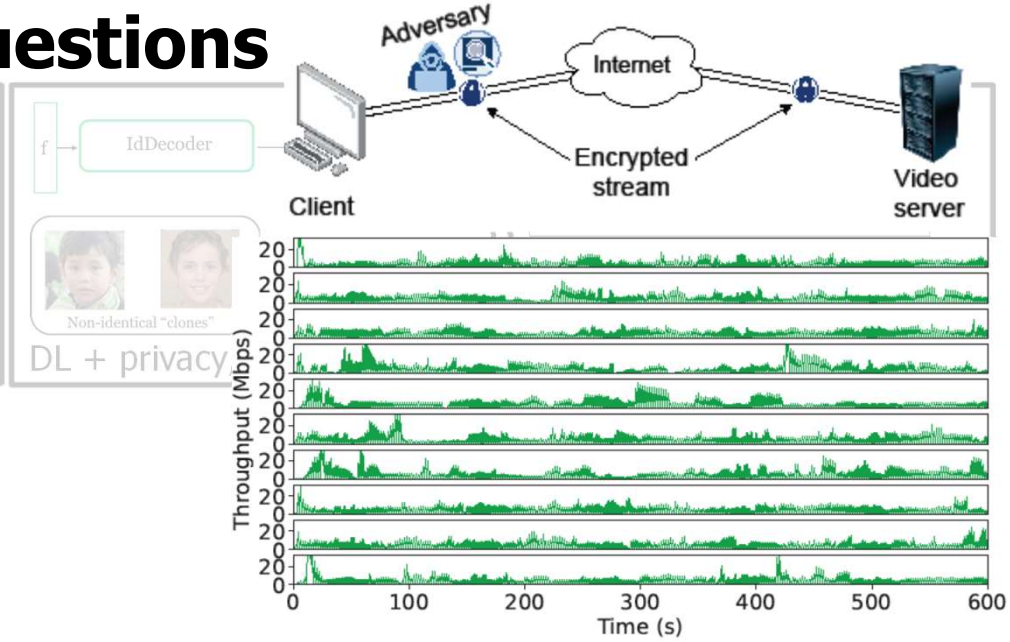

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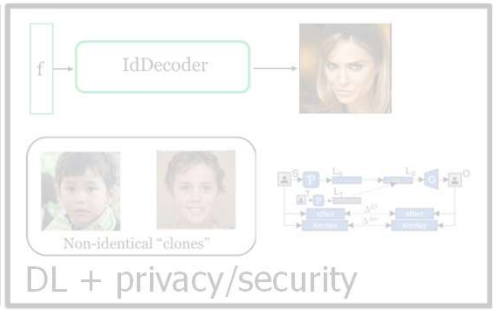

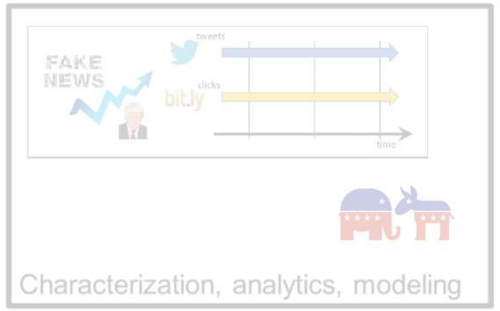

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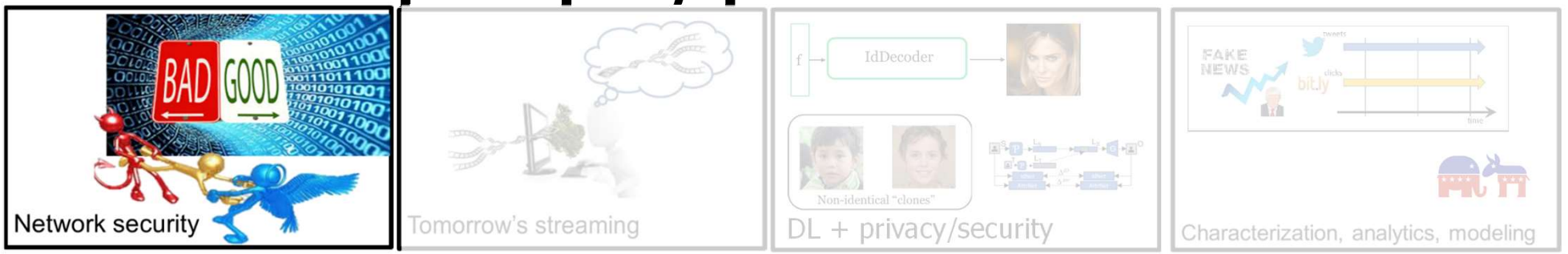

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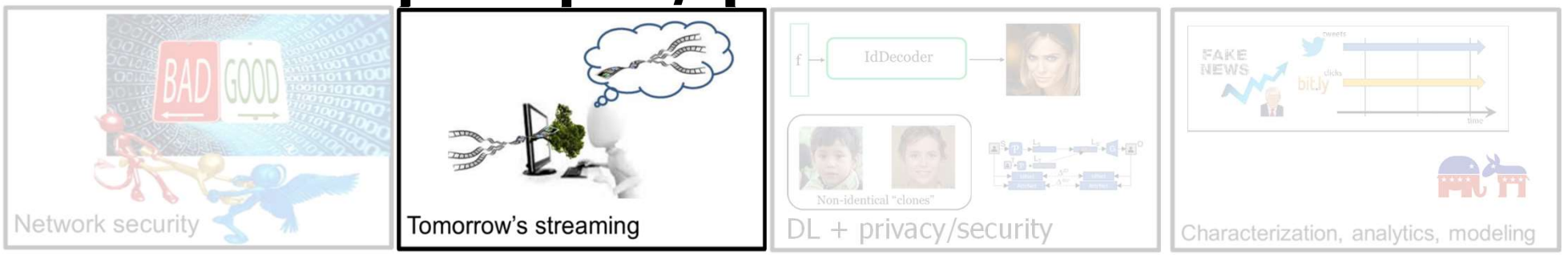

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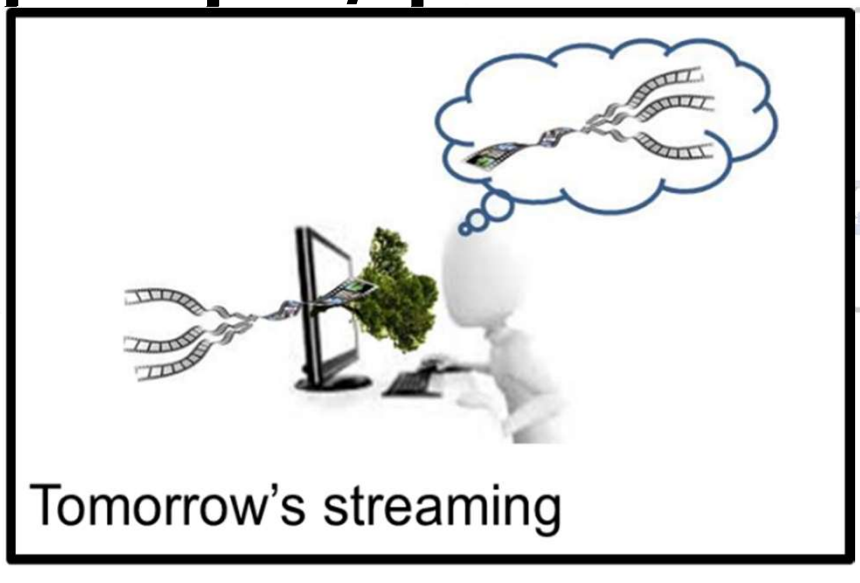

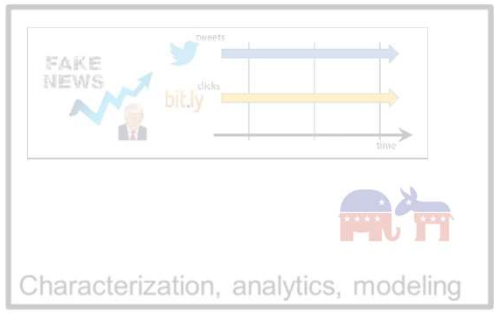

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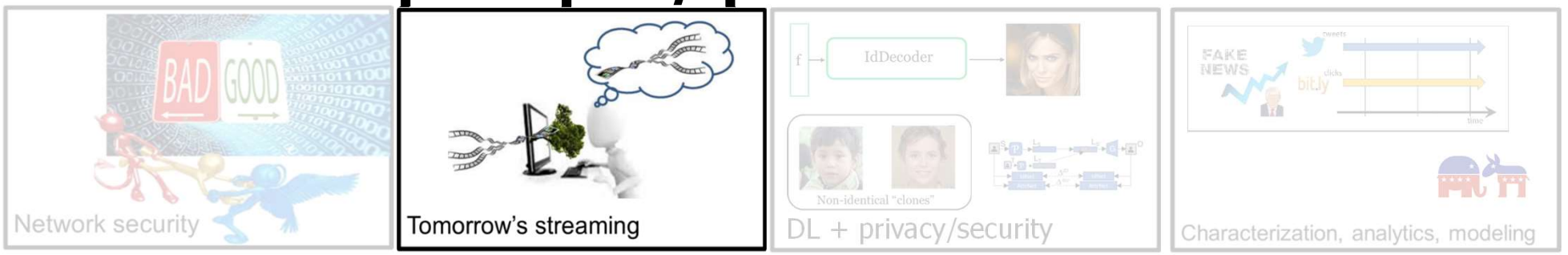

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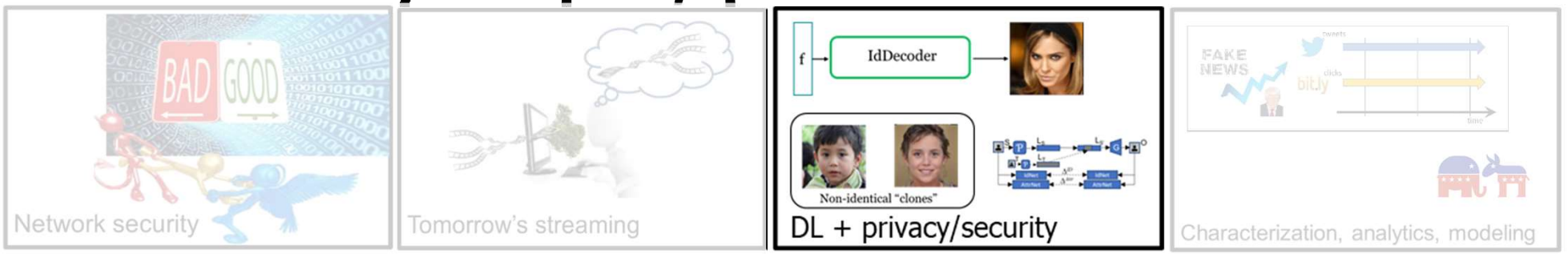

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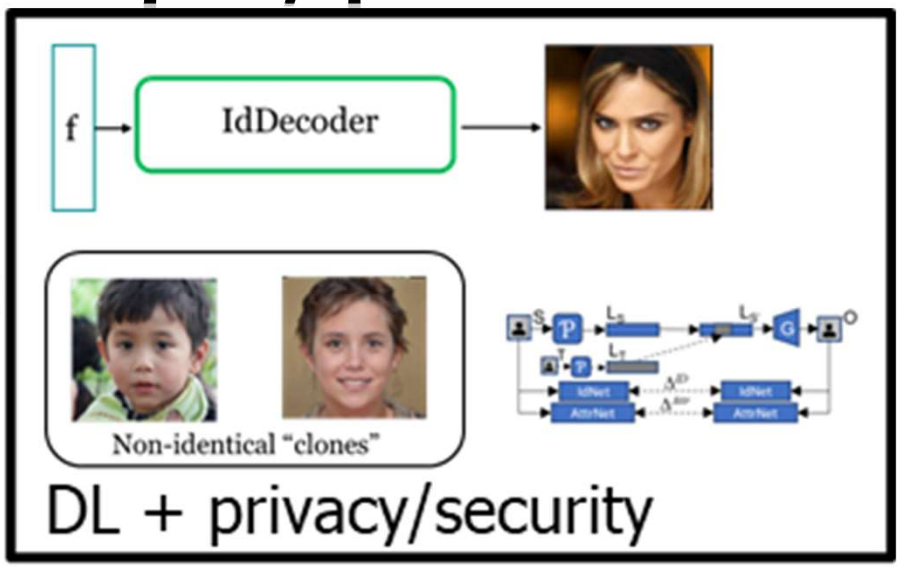

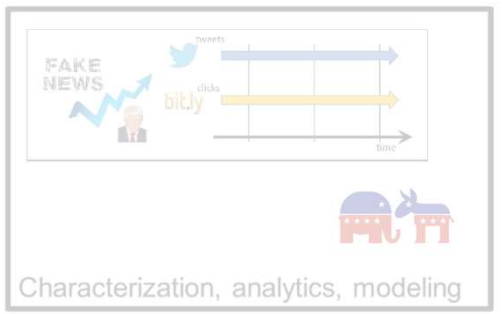

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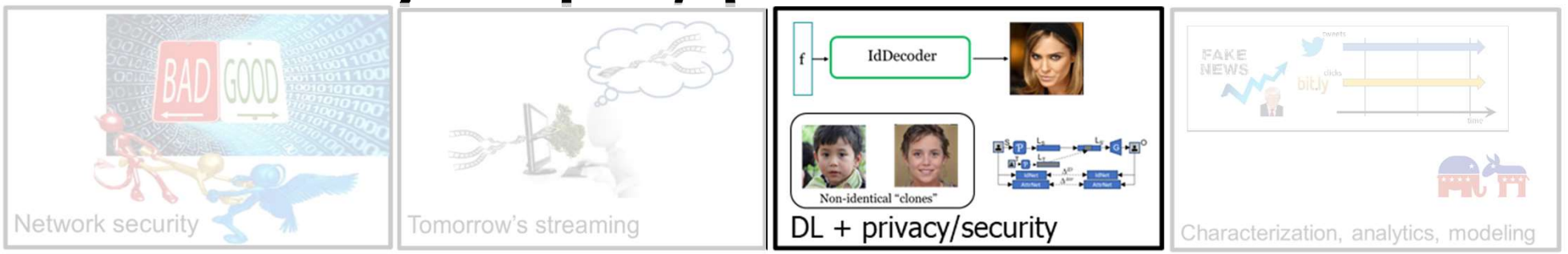

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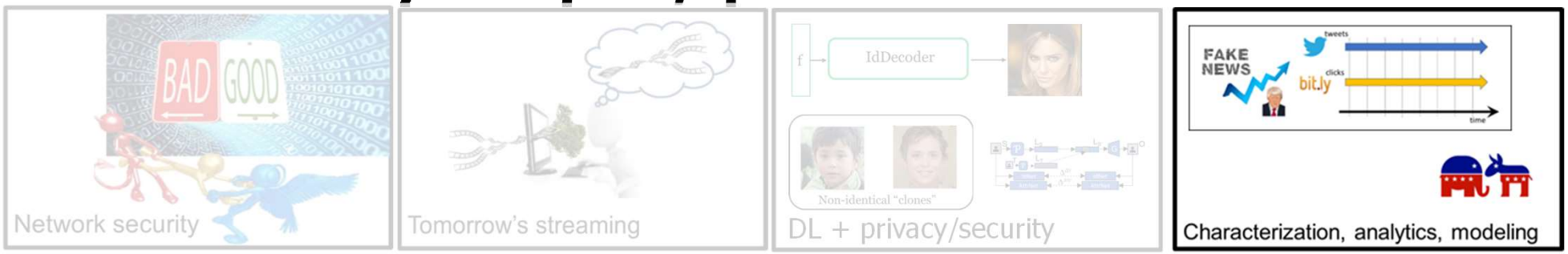

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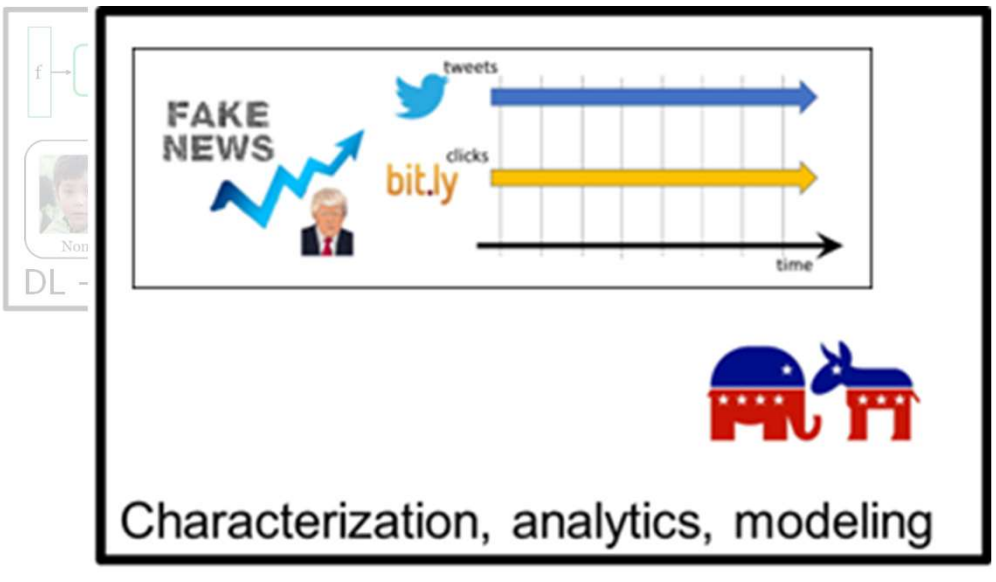

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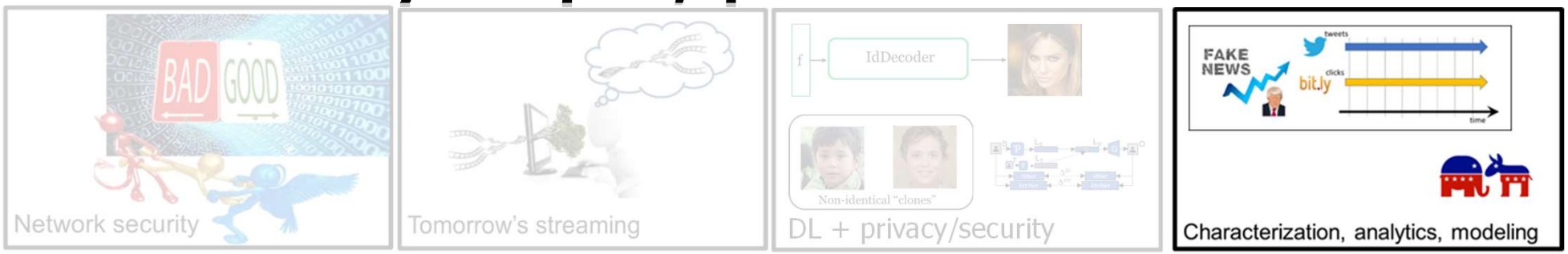

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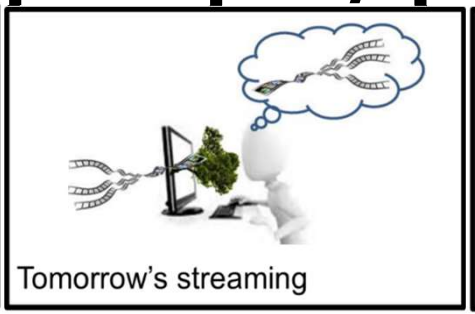
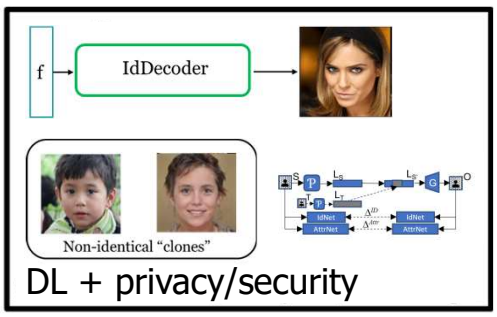
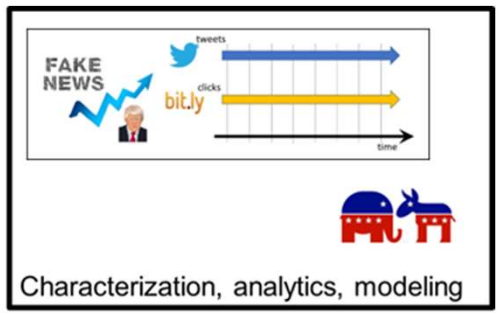
Network security



Tomorrow's streaming



DL + privacy/security



Characterization, analytics, modeling

My expectations

- Attend lectures, identify information sources, and read …
  - Lots of content; e.g., textbooks, research articles
  - Not time to cover everything during lectures

- Work hard
  - Attend and pay attention during lectures
  - Read after class
  - Make sure you understand all the material

- Please follow deadlines and office hours

What to expect; what is covered?

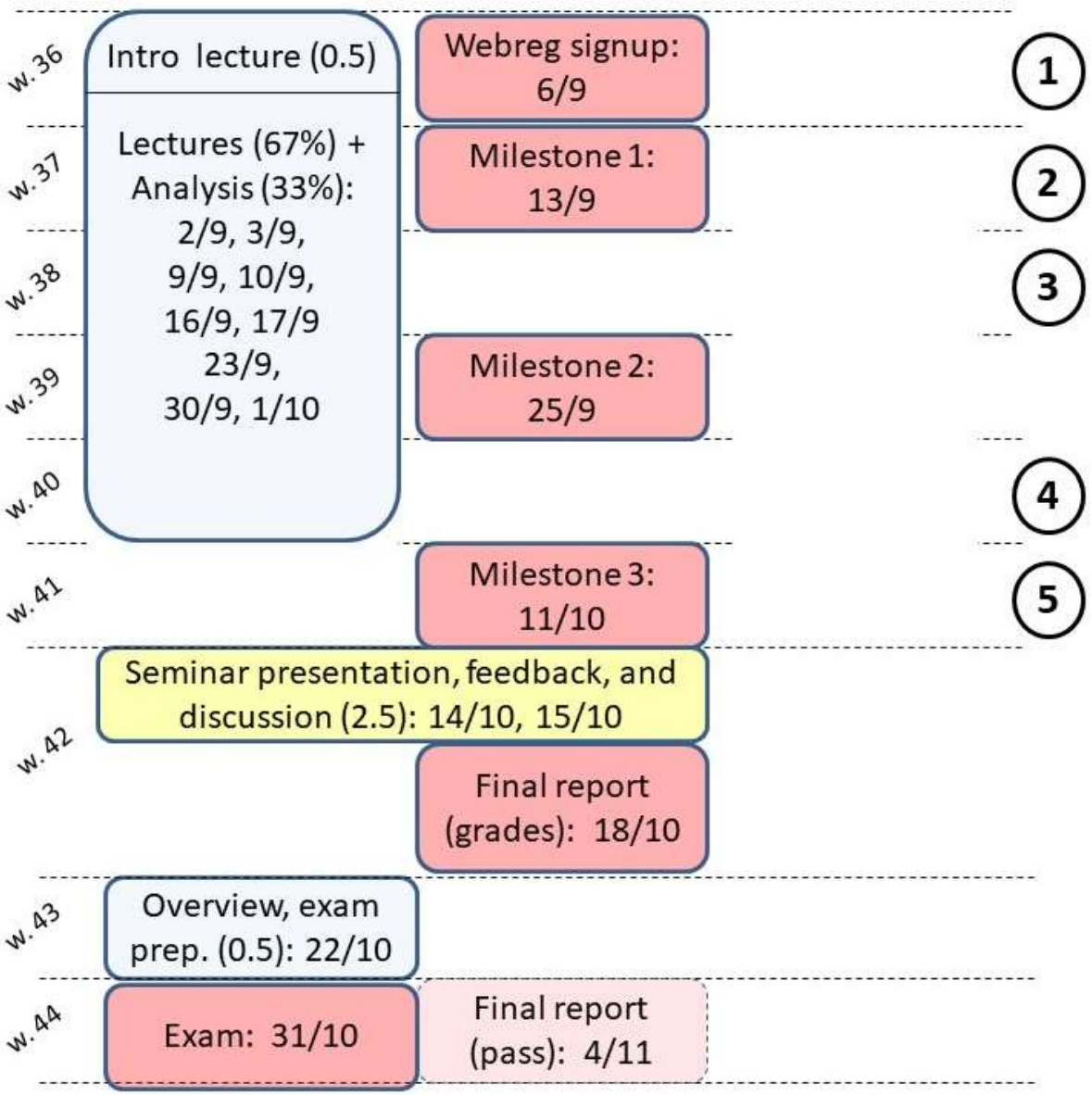
- Design principles for mobile systems
  - Conceptual view

- Design, resource, and performance tradeoffs in mobile systems
  - General working knowledge of protocols/applications
  - Detailed knowledge of selected protocols/applications

- Glimpse into the future
  - Emerging trends and technologies

Course Overview

- Nine lectures: Mix of theory and analysis of systems
  - A written exam
- Project: Three milestones, a written report, and a seminar presentation
- Scenarios used in PBL groups, projects, and some analysis lectures
- See website for more information ...



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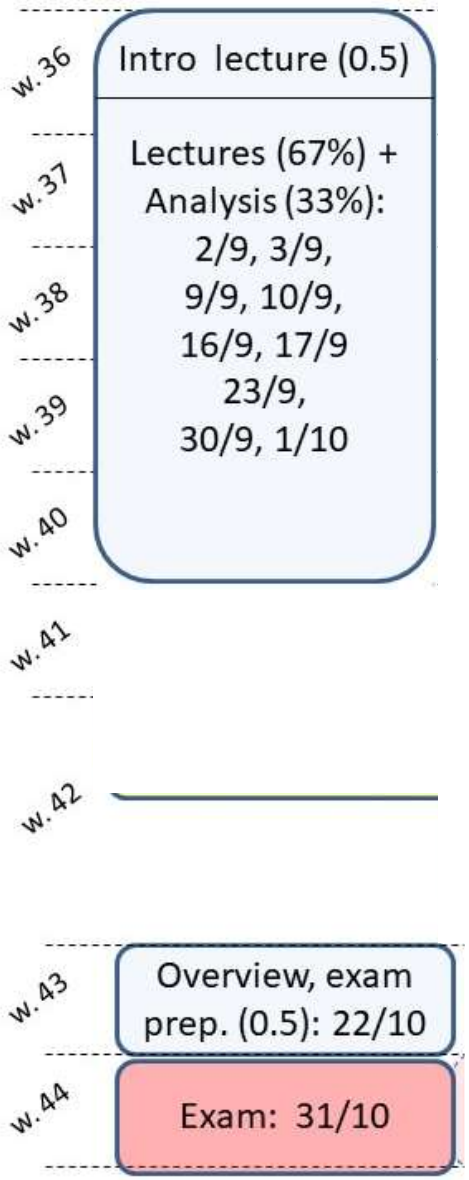

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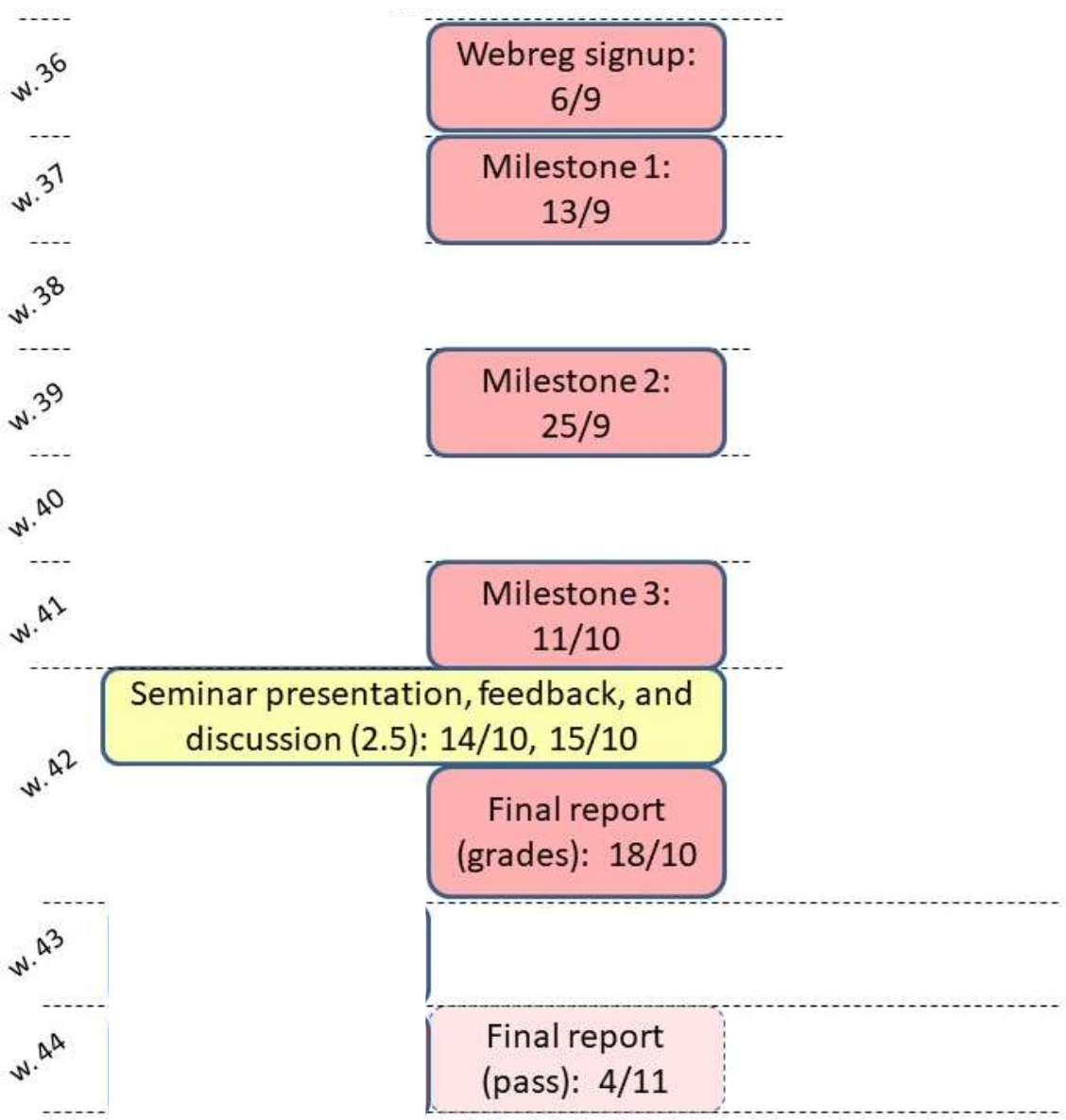

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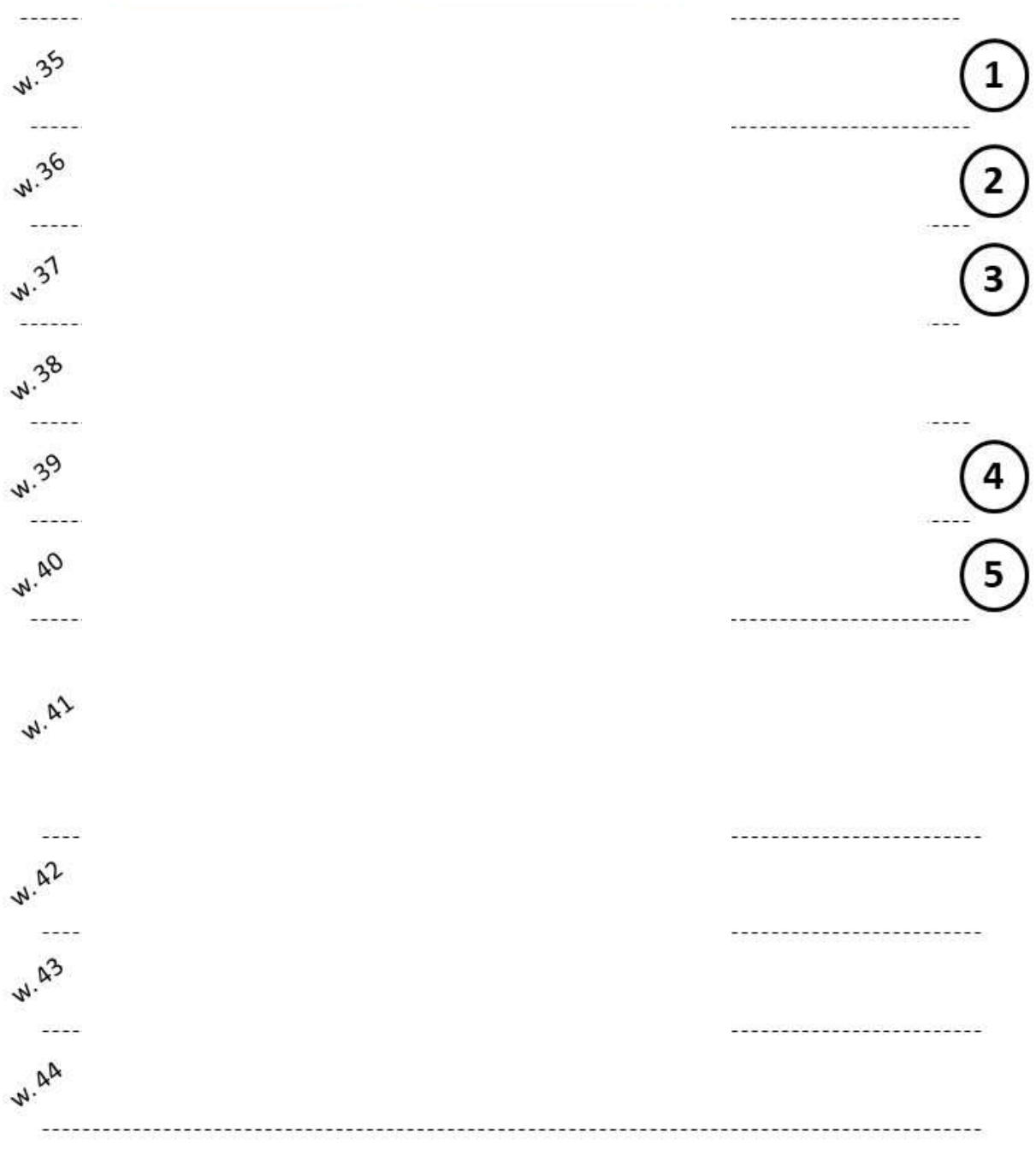

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