Charlott Lorentzen, BTH

• PhD studies on
  – Network performance and network security

• Licentiate topic
  – User perception and performance of authentication procedures

• Currently working on
  – Trying to find a topic for the remainder of my PhD
  – Next paper? Memory effect in user experiments
Papers included in Lic. thesis

1) A criteria-based evaluation framework for authentication schemes in IMS.
   C. Eliasson, M. Fiedler and I. Jørstad.
   In Proceedings of the 4th International Conference on Availability, Reliability and Security
   Fukuoka, Japan, March 2009.

   In Proceedings of Australasian Telecommunication Networks and Applications Conference
   Auckland, New Zealand, November 2010.

3) Decisive Factors for Quality of Experience of OpenID Authentication Using EAP-SIM.
   In Proceedings of the European Teletraffic Seminar
   Poznan, Poland, February 2011.
Future work

• Improvement of our authentication solution
  – Reducing no. of messages by 50 % for tunnel setup would give an impact factor of $e^{-0.8d/s}$ instead of $e^{-1.6d/s}$.

• Extended tests of possible memory effect
  – Which might be visible in our user tests
  – Same performance gets different user ratings, depending on decrease or increase of performance

• Evaluate user perception of small authentication times

• User tests with varying authentication schemes
  – Visible for one user group and invisible for another
Thank you for your attention!