Course Logistics
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Prerequisites

- basic of deep learning
  - know basic neural architectures
  - training by backpropagation
- be familiar with machine translation
  - what data we use and do we get them
  - MT evaluation
  - what are the main problems of MT and why they are difficult

Enrolling **NPFL087 Statistical Machine Translation** is recommended.
Goals of the Course

1. make you able to read the newest MT papers

2. give you some intuition on how to models behave
Syllabus

- introductory notes on deep learning
- recurrent networks (equations and intuition behind them)
- sequence-to-sequence learning with attention mechanism
- tricks to improve model performance
- dealing with limited vocabulary (character-based methods, sub-word units)
- optimization techniques (reinforcement learning, minimum risk training)
- multilingual translation and multi-task learning
Formal Requirements

To pass the course, you need to:

► read the papers assigned for the seminar and submit an answer to a question for each paper before the seminar (via a Google Form),
► present a paper to the fellow students.
► if there is too many students, you can write / correct a Wikipedia article on MT / Neural MT in your language

The seminar is an optional course, awarded by 3 credits.
The course materials & current reading question will be available on course webpage:

ufal.cz/courses/npfl116/summer2017

If you have questions, drop us a line:
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