Members of a session discuss the papers (grades will be given for participation). After the discussion, meeting one gets one of the papers from your session.

**Session: Optimal Transport (OT)**

* Recently increased interest in optimal transport problems
* **Wasserstein distances** (hot topic):
  + Applications in ML and AI
  + Now fast (approximative) algorithms
* Three papers: a fast approximation and apply OT to **graph similarity measurement**(**A** *Wasserstein Weisfeiler-Lehman Graph Kernels*;   
  **B** *GOT: An Optimal Transport Framework for Graph Comparison*;  
  **C** *A Graph Theoretic Additive Approximation of Optimal Transport*)

Reading:

1. First pass: Overview of **what happens**
2. Second pass: **Understand** the material. Document your **observations**:
   * Main results, claims, notions, ideas, …
   * Topic structure? Is there a better way?
   * Motivations of definitions? What methods or ideas are used in proofs?
   * Where are difficulties to understand the material? Write down questions!
3. **Prepare a well-structured presentation** (recall the presentation training!):
   * Restructure and compress the material
   * Highlight interesting points, surprising results, and parts you don’t understand  
     (Ask questions; proactively seek feedback from your supervisor in advance)

A – Wasserstein Weisfeiler-Lehman Graph Kernels