

# Term Project Presentation schedule

**Monday, April 30, 2018 (in class)**

## **Learning**

1. Liyuan Zhang, "Personalized Recommendation System based on Support Vector Machines."
2. Dehua Bi, "Algorithms for regularized logistic regression."
3. Boran Hao, "Learning with regularization."
4. Clara Lin, "Distilling neural nets."
5. Yuning Xie, "SVM Case Study."

## **Optimization**

1. Yuping Wang, "Overview of the Scenario-based optimization approach."
2. Rui Liu, "Subgradients and Subgradient Methods."
3. Qianqian Ma, "A survey on primal-dual subgradient methods for convex problems."
4. Kasra Ghasemi, "A formulation for joint clustering and regression."
5. Zhiwei Tang, "A study on the applications of stochastic gradient descent in neural network training."
6. Xin Lu, "Submodular function minimization and duality."
7. Haoyu Li, "Particle Swarm Optimization."
8. Hatice Kubra Cilingir, "Optimization Algorithms for Saddle Point Problems."

**Wednesday, May 2, 2018 (in class)**

## **Power systems**

1. Majid Heidarifar, "Convex Representations of the Optimal Power Flow Problem for Distribution Networks."
2. Waleed Aslam, "Distributed Optimization Decomposition for Joint Economic Dispatch and Frequency Regulation."
3. Peter Klock, "The Optimal Power Flow Problem: How Different Relaxations Change Its Scope and Complexity."
4. Thanasis Tsiligkaridis, "Demand Response Market Design Using Supply Function Bidding and Prediction-Based Pricing."

### **Transportation systems**

1. Salomon Wollenstein, “Price of Anarchy in Transportation Networks. A data-driven approach.”
2. Xin Li, “Vehicle routing and traffic prediction.”

### **Imaging/Signal Processing**

1. Sandamali Devadithya, “Application of the Split-Bregman Optimization Method in Computational Imaging.”
2. Jun Yun, “Fast recognition using gradient descent search in an image pyramid.”
3. Walid Tahir, “High throughput intensity diffraction tomography using ADMM.”
4. Charlie Saunders, “Optimal Dynamic Range Compression in Audio.”

### **Other applications**

1. Cristian Morales, “Optimization Theory for Workforce Planning in the Military IT field.”
2. Jessica Covington, “Distributed Subgradient Methods for Multi-Agent Optimization.”
3. Jiameng Fan, “Learning robot objectives from Physical Correction.”