**2017 HKBU Workshop on Optimization**

**Venue: Room 504, Academic & Administration Building, Baptist University Road Campus, HKBU**

**Time: 9:30-17:40, May 30, 2017**

**Schedule:**

**9:30-10:10** Jong-Shi Pang, University of Southern California, USA

Title:  Structural properties of affine sparsity constraints

**10:10-10:50** Li-Zhi Liao, Hong Kong Baptist University, Hong Kong

Title: Interior point continuous trajectories for optimization: motivations, convergence and computation

**10:50-11:10** Break

**11:10-11:50** Radu Ioan Bot, University of Vienna, Austria

Title: The proximal-gradient algorithm for fractional programming: convergence analysis and rates

**11:50-12:30** Jane Y. Ye, University of Victoria, Canada

Title: On solving non-Lipschitz nonconvex programs: necessary optimality conditions, exact penalization and an augmented Lagrangian method

**12:30-14:00** Lunch

**14:00-14:40** Marc Teboulle, Tel Aviv University, Israel

Title: A dual method for minimizing a nonsmooth objective over one smooth inequality constraint

**14:40-15:20** Jin Zhang, Hong Kong Baptist University, Hong Kong

Title: Weaker error bound conditions for the linear convergence rate of the alternating direction method of multipliers

**15:20-15:40** Break

**15:40-16:20** Xianfu Wang, University of British Columbia Okanagan, Canada

Title: Optimal rates of linear convergence of relaxed alternating projections and generalized Douglas-Rachford methods for two subspaces

**16:20-17:00** Shoham Sabach, Technion, Israel

Title: First order methods for solving convex bi-level optimization problems

**17:00-17:40** Henry Wolkowicz, University of Waterloo, Canada

Title: Applications of facial reduction (FR) to semidefinite programing (SDP) relaxations of hard numerical problems