

*Department of Mathematics,  
University of California San Diego*

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## Math 278C - Optimization Seminar

**Dr. Xindong Tang**

UCSD

### **A Gauss-Seidel typed Approach for solving polynomial GNEP by SOS Relaxation**

**Abstract:**

Consider a kind of generalized Nash equilibrium problems (GNEPs) whose objective functions are polynomials, and the constraints can be represented by polynomial equalities and inequalities. Gauss-Seidel typed Approach is one kind of natural easy implemented method to solve GNEP. We study some properties for this approach, and give out a computable criterion for Generalized Potential game (GPGs), the condition under which the convergence of this approach could be guaranteed.

Host: Jiawang Nie

**Wednesday, April 17, 2019**

**3:00 PM**

**AP&M B412**

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