



International Master's Program in Telecommunication Engineering

**Course Name: Adaptive Filter Theory 調適性濾波器理論**

**Course Objects:**

This course provides the students a broad and solid perspective on the theory and applications of the state of the art adaptive signal processing techniques.

**Course Syllabus:**

This course is a graduate-level course. The main topics cover

1. Random processes and models
2. Linear optimal filtering
3. Steepest descent
4. Least-mean-square algorithm
5. Least square
6. Recursive least-squares algorithm
7. Kalman filter