Advanced Noncooperative Game Theory (Second Quarter 2019)

Instructor : Ryo Kawasaki (Department of Industrial Engineering and Economics) Office : W9 building, Room 529, email: kawasaki.r.aa@m.titech.ac.jp

Time of class : Mondays and Thursdays 15:05-16:35

Room: W9-508 (W9 Building, 5th Floor)

Textbook: None. Handouts for each class are available on the OCW-i page for this course.

Office hours : TBA

TA: TBA

Tentative schedule (as of April 1) :

June 13: Strategic form games and the mixed extension

June 17: Dominated strategies and iterated removal of dominated strategies

June 20: Nash equilibrium (1)

June 24: Nash equilibrium (2)

June 27: Potential games and supermodular games (1)

July 1: TBA

July 4: TBA

July 8: Potential games and supermodular games (2)

July 11: Potential games and supermodular games (3)

July 15: Extensive form games and subgame-perfect equilibrium (1)

July 18: Extensive form games and subgame-perfect equilibrium (2)

July 22: Finitely and infinitely repeated games

July 25: Perfect Bayesian equilibrium and sequential equilibrium

July 29: Games of incomplete information (1)

August 1: Games of incomplete information (2)

August 5 or 8: Final exam (date yet to be finalized)

(Schedule and topics may be subject to change)

Weight distribution: Homework (30%), Final exam (70%)

<u>Note</u>: All handouts, homework assignments, and exams will be written in English.