

# Class for Graduate Students 2020

## “Design of Structures and Theory of Generalized Inverse”

(The class will be held in English)

by Prof. Ken'ichi Kawaguchi

Term I, II : 7<sup>th</sup> April (Tue.)–

Time : 13:00 – 16:40

Place : Will be Held with Zoom System.

Please get the URL from UTAS.

### Schedule:

April 7 <sup>th</sup> (Tue)	Arches and the Thrust line theory
14 <sup>th</sup> (Tue)	Large roof structures in earthquake and Snow, Collapse of ceilings
21 <sup>st</sup> (Tue)	Terror attack to World Trade Center in 2001.9.11., Olympic and FIFA World Cup stadiums
28 <sup>th</sup> (Tue)	Tensegrity: Tensegrity Workshop
May 12 <sup>th</sup> (Tue)	Generalized Inverse I: Fundamental of linear algebra, Indeterminacy and Inconsistency, Pseudo- inverse, Minimum-norm and Least squares.
19 <sup>th</sup> (Tue)	Generalized Inverse II: Rank factorization and G-inverse
26 <sup>th</sup> (Tue)	Generalized Inverse III Numerical computation of G-inverse and G-inverse applied to structural analysis