FACULTAD DE CIENCIAS
FÍSICAS Y MATEMÁTICAS
UNIVERSIDAD DE CHILE

CMM
Center for
Mathematical
Modeling

cmm.uchile.cl

Beauchef 851, edificio norte, Piso 7
Santiago, Chile
CP 837 0456

Tel. +56-2 2978 4870

**Optimization and Equilibrium Seminar**

**Speaker:** Professor Nicolas Hadjisavvas, University of the Aegean, Greece.

**Title**: Continuity and maximal quasimonotonicity of normal cone operators.

**Abstract:** In this talk we present some properties of the adjusted normal cone operator of quasiconvex functions. In particular, we introduce a new notion of maximal quasimotonicity for set-valued maps, different from similar ones that appeared recently in the literature, and we show that this operator is maximal quasimonotone in this sense. Among other results, we prove the $s\times w^{\ast}$ cone upper semicontinuity of the normal cone operator in the domain of $f$, in case the set of global minima is empty, or a singleton, or has non empty interior (joint work with M. Bianchi and R. Pini).

**Venue**: Online via Google Meet: https://meet.google.com/cmx-ivvw-saq

**A brief biography of the speaker**: Nicolas Hadjisavvas is Professor Emeritus, University of the Aegean, Greece. Among other responsabilities He is currently Associate editor of JOTA, JOGO, Optimization, and Optimization Letters; author of 66 papers from which he received 1392 citations according to WoS (without self-citations). In addition, He edited 4 books in Springer, and 5 special journal issues, besides He served as chair of the Working Group on Generalized Convexity (2003-2006, 2015-2018). He has been keynote or invited speaker in many Conferences or Summer Schools.

**Coordinators**: Fabián Flores-Bazán (CMM, Universidad de Concepción) and Abderrahim Hantoute (Alicante)

**Major information on the this and previous seminars may be found at:**

https://eventos.cmm.uchile.cl/optimseminar/seminars

**Date: December 1st, 2021 at 10:00 am (Chilean-time)**

CONICYT
Ministerio de Educación
Gobierno de Chile

cnrs