

New existence results and applications for
vector-valued functions with essential vectorial
semicontinuity and adjustability convexity

Wei-Shih Du

Department of Mathematics,
National Kaohsiung Normal University,
Kaohsiung 824004, Taiwan
E-mail: wsdu@mail.nknu.edu.tw

Abstract

In this talk, we will establish new existence theorems for root-finding problem, eigenvector problem, fixed point problem and minimization problem by using essential vectorial lower semicontinuous and adjustability convex vector-valued functions in the weakly compact setting.