



UNIVERSITÀ DEGLI STUDI
DELL'INSUBRIA

DIPARTIMENTO DI ECONOMIA

Prof. Nicolae Popovici

(Department of Mathematics - Faculty of Mathematics and Computer Science - Babeş-Bolyai University – Cluj-Napoca, Romania)

Seminario:

“A general local-global extremality principle in vector optimization”

Abstract: It is known that any local minimal point of a semistrictly quasiconvex real-valued function is a global minimal point; also, any local maximal point of an explicitly quasiconvex real-valued function is a global minimal point, provided that it belongs to the intrinsic core of the function's domain. Jointly with Ovidiu Bagdasar (University of Derby, UK) we have shown that these local min - global min and local max - global min type properties can be extended and unified by a general local-global extremality principle for generalized convex vector-valued functions with respect to two proper subsets of the outcome space.

Mercoledì 13 Febbraio 2019 - ore 15:00

Presso la Sala Consiglio del Dipartimento di Economia

Via Monte Generoso 71, Varese



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Seminario:

“New algorithms for solving discrete vector optimization problems”

Abstract: We present some new Graef-Younes type algorithms for solving discrete vector optimization problems, jointly developed with Christian Guenther (Martin-Luther University of Halle-Wittenberg, Germany). In order to determine all minimal elements of a finite set with respect to an ordering cone, the original approach proposed by Jahn in 2006 (known as the Jahn-Graef-Younes method) consists of a forward iteration (Graef-Younes method), followed by a backward iteration. Our methods involve additional sorting procedures based on scalar cone-monotone functions.

Giovedì 14 Febbraio 2019 - ore 15:00

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Seminario:

“A new algorithm for solving planar multiobjective location problems involving the Manhattan norm”

Abstract: We study unconstrained planar multiobjective location problems, where distances between points are defined by means of the Manhattan norm. By eliminating the nonessential objectives we develop an effective algorithm for generating the whole set of efficient solutions as the union of a special family of rectangles and line segments. This talk is based on a joint paper with Shabagh Alzorba, Christian Guenther and Christiane Tammer (Martin-Luther University of Halle-Wittenberg, Germany).

Venerdì 15 Febbraio 2019 - ore 11:00

Presso la Sala Consiglio del Dipartimento di Economia

Via Monte Generoso 71, Varese