

Multivalued fixed point theorems in Banach spaces

Paola Rubbioni

Department of Mathematics and Informatics, Perugia University, Italy
rubbioni@dmi.unipg.it

Aim of this talk is to present some new fixed point theorems for multimaps in Banach spaces, which in turn are multivalued versions of the Mönch, Daher, Darbo and Sadovskii theorems.

The assumptions of our main results are formulated in terms of weak topology and an axiomatic definition of measure of weak noncompactness.

This is a joint work with Tiziana Cardinali.

References

- [1] *T. Cardinali, P. Rubbioni*: Countably condensing multimaps and fixed points. *Electron. J. Qual. Theory Differ. Equ.* *83* (2012), 1–9.
- [2] *T. Cardinali, P. Rubbioni*: Multivalued fixed point theorems in terms of weak topology and measure of weak noncompactness. *J. Math. Anal. Appl.* (2013), <http://dx.doi.org/10.1016/j.jmaa.2013.03.045>.