



ITES2007 Sixth Italian-Spanish conference
on General Topology and applications
Bressanone, 26-29 June 2007

Some Generalizations of Duality Theorems of De Vries and Fedorchuk

Georgi Dimov

*Dept. of Math. and Informatics, Sofia University
5 J. Bourchier Blvd., 1164 Sofia, Bulgaria
gdimov@fmi.uni-sofia.bg*

Five Stone-type duality theorems which generalize in different ways the well known Duality Theorems of V. V. Fedorchuk and H. de Vries are proved. They all concern the categories whose objects are all locally compact Hausdorff spaces and their morphisms are, respectively, all perfect maps, all open maps, all open perfect maps, all quasi-open perfect maps, all continuous skeletal maps.

Some equivalence theorems for these categories are obtained as well. Several applications are established.