Title: Norm-multiplicative mappings between spaces of vector-valued continuous functions

Author(s): Maliheh Hosseini and Juan J. Font

We extend the concept of norm-multiplicativity of a (not necessarily linear) mapping defined between spaces of scalar-valued continuous functions to the vector-valued setting, and prove that in this context norm-multiplicative surjective maps are composition in norm. We also provide several examples to emphasize the differences between isometries and norm-multiplicative maps.

Address:
Maliheh Hosseini
Faculty of Mathematics
K. N. Toosi University of Technology
Tehran, 16315-1618
Iran

Address:
Juan J. Font
Departamento de Matemáticas
Universitat Jaume I
Campus Riu Sec
12071, Castellón
Spain