

## عنوان مقاله:

Automatic Continuity of Surjective Almost Derivations on Frechet Q-Algebras

## محل انتشار:

دو فصلنامه آنالیز ریاضی و بهینه سازی محدب, دوره 3, شماره 1 (سال: 1401)

تعداد صفحات اصل مقاله: 6

## نویسندگان:

C. GANESA MOORTHY - *Alagappa University*

GURUSAMY SIVA - *Alagappa University*

## خلاصه مقاله:

In ۱۹۷۱ R. L. Carpenter proved that every derivation  $T$  on a semisimple commutative Frechet algebra  $A$  with identity is continuous. By relaxing the commutativity assumption on  $A$  and adding the surjectivity assumption on  $T$ , we derive a corresponding continuity result, for a new concept of almost derivations on Frechet algebras in this article. Also, it is further proved that every surjective almost derivation  $T$  on non commutative semisimple Frechet Q-algebras  $A$  with an additional condition on  $A$ , is continuous. Moreover, an example is provided to illustrate our main result.

## کلمات کلیدی:

Almost derivation, Automatic continuity, Frechet Q-algebras

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1492350>

