Title: Circle-preserving transformations in Finsler spaces

Author(s): Behroz Bidabad and Zhongmin Shen

Here, by extending the definition of circle to Finsler geometry, we show that, every circle-preserving local diffeomorphism is conformal. This result implies that in Finsler geometry, the definition of concircular change of metrics, a priori, does not require the conformal assumption.

Address:
Behroz Bidabad
Department of Mathematics
and Computer Sciences
Amirkabir University of Technology
(Tehran Polytechnic)
424 Hafez Ave. 15914 Tehran
Iran

Address:
Zhongmin Shen
Department of Mathematical Sciences
Indiana University
Purdue University Indianapolis (IUPUI)
Indianapolis, IN 46202
USA