

Year: 2007

Vol.: 71

Fasc.: 3-4

Title: A classification of some Finsler connections and their applications

Author(s): Behroz Bidabad and Akbar Tayebi

Some general Finsler connections are defined. Emphasis is being made on the Cartan tensor and its derivatives. Vanishing of the hv-curvature tensors of these connections characterizes Landsbergian, Berwaldian as well as Riemannian structures. This viewpoint makes it possible to give a smart representation of connection theory in Finsler geometry and yields a classification of Finsler connections. Some practical applications of these connections are also considered.

Address:

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

Address:

Akbar Tayebi
Department of Mathematics and Computer Sciences
Amirkabir University of Technology (Tehran Polytechnic)
424 Hafez Ave. 15914 Tehran
Iran
E-mail: akbar_tayebi@aut.ac.ir