

CONJUGATE CONNECTIONS AND STATISTICAL STRUCTURES ON ALMOST NORDEN MANIFOLDS

Marta Teofilova

Abstract. *Relations between conjugate connections with respect to the pair of Norden metrics and to the almost complex structure on almost Norden manifolds are studied. Conjugate connections of the Levi-Civita connections induced by the Norden metrics are obtained. Statistical structures on almost Norden manifolds are considered.*

Key words: Norden metric, complex structure, conjugate connection, dual connection, complex conjugate connection, statistical manifold.

Mathematics Subject Classification: 53C15, 53C50, 32Q60

Marta Teofilova^{1,*}

¹ Paisii Hilendarski University of Plovdiv,
Faculty of Mathematics and Informatics,
236 Bulgaria Blvd., 4003 Plovdiv, Bulgaria

* Corresponding author: marta@uni-plovdiv.bg

