

## عنوان مقاله:

On generalized symmetric Finsler spaces with some special  $(\alpha, \beta)$ -metrics

## محل انتشار:

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## خلاصه مقاله:

In this paper, we study generalized symmetric Finsler spaces with Matsumoto metric, infinite series metric and exponential metric. The definition of generalized symmetric Finsler spaces is a natural generalization of the definition of Riemannian generalized symmetric spaces. We prove that generalized symmetric  $(\alpha, \beta)$ -spaces with Matsumoto metric, infinite series metric and exponential metric are Riemannian. We also prove that if  $(M, F)$  be a generalized symmetric Matsumoto space with  $F$  defined by the Riemannian metric  $\tilde{a}$  and the vector field  $X$ , Then the regular  $s$ -structure  $\{s_x\}$  of  $(M, F)$  is also a regular  $s$ -structure of the Riemannian manifold  $(M, \tilde{a})$  and if  $(M, \tilde{a})$  be a generalized symmetric Riemannian space and Also suppose that  $F$  is a Matsumoto metric introduced by  $\tilde{a}$  and a vector field  $X$ , Then the regular  $s$ -structure  $\{s_x\}$  of  $(M, \tilde{a})$  is also a regular  $s$ -structure of  $(M, F)$  if and only if  $X$  is  $s_x$ -invariant for all  $x$  in  $M$ .

## کلمات کلیدی:

$(\alpha, \beta)$ -metric, Matsumoto metric, infinite series metric, exponential metric

## لینک ثابت مقاله در پایگاه سیویلیکا:

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