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**A natural Galois connection between generalized norms and metrics.** (English) Zbl 06869859  
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Summary: Having in mind a well-known connection between norms and metrics on vector spaces, for an additively written group  $X$ , we establish a natural Galois connection between functions of  $X$  to  $\mathbb{R}$  and  $X^2$  to  $\mathbb{R}$ .

**MSC:**

[06A15](#) Galois correspondences, closure operators (in relation to ordered sets)  
[20A99](#) Foundations  
[54E25](#) Semimetric spaces

Cited in 4 Documents

**Keywords:**

groups; preseminorms; invariant semimetrics; Galois connections

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