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Entourages, covers and localic groups. (English) Zbl 1277.06005
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The paper discusses two approaches to uniformities on locales: via entourages and via covers. It is proved that the two resulting categories are concretely isomorphic. Then entourage and cover uniformities, induced by the group structure, on localic groups are examined in detail. Using the equivalence of these uniformities it is proved that a homomorphism of localic groups is uniform.

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MSC:

06D22 Frames, locales
18B30 Categories of topological spaces and continuous mappings
18D35 Structured objects in a category
22A05 Structure of general topological groups
54E15 Uniform structures and generalizations

Cited in 2 Documents

Keywords:

frame coproduct; localic product; cover; entourage uniformity; cover uniformity; localic group; uniformities on locales

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