VARIOUS NOTIONS OF AMENABILITY
FOR NOT NECESSARILY LOCALLY COMPACT
GROUPOIDS

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Abstract. We start with a groupoid $G$ endowed with a family $W$ of subsets mimicking the properties of a neighborhood basis of the unit space (of a topological groupoid with paracompact unit space). Using the family $W$ we endow each $G$-space with a uniform structure. The uniformities of the $G$-spaces allow us to define various notions of amenability for the $G$-equivariant maps. As in [1], the amenability of the groupoid $G$ is defined as the amenability of its range map. If the groupoid $G$ is a group, all notions of amenability that we introduce coincide with the classical notion of amenability for topological (not necessarily locally-compact) groups.

Full text

References


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