

عنوان مقاله:

Universal extensions of specialization semilattices

محل انتشار:

مجله نظریه رسته ها و ساختارهای کلی جبری با کاربردها, دوره 17, شماره 1 (سال: 1401)

تعداد صفحات اصل مقاله: 16

نویسنده:

Paolo Lipparini - *Dipartimento di Matematica, Viale della Ricerca Scientifica Non Chiusa, Università di Roma "Tor Vergata", I-00133 Rome, Italy*

خلاصه مقاله:

A specialization semilattice is a join semilattice together with a coarser preorder \sqsubseteq satisfying an appropriate compatibility condition. If X is a topological space, then $(P(X), \cup, \sqsubseteq)$ is a specialization semilattice, where $x \sqsubseteq y$ if $x \subseteq \text{Kl}_y$, for $x, y \subseteq X$, and Kl is closure. Specialization semilattices and posets appear as auxiliary structures in many disparate scientific fields, even unrelated to topology. In a former work we showed that every specialization semilattice can be embedded into the specialization semilattice associated to a topological space as above. Here we describe the universal embedding of a specialization semilattice into an additive closure semilattice.

کلمات کلیدی:

Specialization semilattice, closure semilattice, closure space, universal extension

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1503825>

