Picado, Jorge; **Pultr, Aleš**

More on subfitness and fitness. (English) Zbl 06447447

Appl. Categ. Struct. 23, No. 3, 323-335 (2015).

Fitness and subfitness are useful separation properties in point-free topology introduced by *J. R. Isbell* [Math. Scand. 31, 5–32 (1972; Zbl 0246.54028)]. The authors further study these concepts, supplementing *H. Simmons* [Appl. Categ. Struct. 14, No. 1, 1–34 (2006; Zbl 1102.06008)]. They also introduce another related property, that of prefitness. Subfitness and prefitness are independent of each other, and in conjunction they are strictly weaker than fitness. Some interesting facts about these three separation properties are presented, also in relation with other separation properties in point-free topology.

Reviewer: Guram Bezhanishvili (Las Cruces)

MSC:

06D22 Frames, locales
54B05 Subspaces (general topology)
54D10 Lower separation axioms (T_0–T_3, etc.)
54E15 Uniform structures and generalizations
54E17 Nearness spaces

Cited in **1** Review

Keywords:

frame; locale; sublocale lattice; fit frame; subfit frame; prefit frame; Hausdorff property; nearness; quasi-nearness

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