

**Tallafha, Abdalla; Al-Bsoul, Adnan; Fora, Ali****Closurely ordered countable sets and applications.** (English) Zbl 1098.54018

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Summary: We order a countable set by means of closure. As an application of this technique we obtain some characterizations of  $T_0$  and  $T_1$ -spaces. Also, we give another proof of the result of *B. Fitzpatrick jun., J. M. S. White* and *H. Zhou* in [Topology Appl. 44, 143–147 (1992; [Zbl 0767.54013](#))] which states that every CDH space is  $T_1$ , throughout closurely ordered countable sets. Moreover, the technique used in the proof is programmable and expected to have applications in computer sciences.

**MSC:**

- [54D10](#) Lower separation axioms ( $T_0$ – $T_3$ , etc.)
- [54D99](#) Fairly general properties of topological spaces
- [54F65](#) Topological characterizations of particular spaces
- [54G20](#) Counterexamples in general topology

Cited in 1 Document

**Keywords:**

lower separation axioms; CDH space; COP; COCS

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