

ON D-COMPACT TOPOLOGICAL SPACES

Abstract: In this paper D-sets will be used for the first time to define a new type of covering properties of topological spaces called D-compact spaces. This is done by defining a special type of covers called a D-cover. The main purpose of this paper is to introduce the notions of D-compact spaces. We study their properties and their relations with other topological spaces. Several examples are discussed and many well known theorems are generalized concerning D-compact spaces.

Keywords: Topological Space, D-set, D-cover, compact Space, D-compact Space, D-lindelof Space, D-countably compact Space, locally indiscrete space, D-continuous function, D-irresolute function.

ALI ATOOM, HAMZA QOQAZEH, YOUSEF AL-QUDAH, ALI JARADAT, NABEELA ABU ALKISHIK (2021). ON D-COMPACT TOPOLOGICAL SPACES, Journal of Mathematical and Computational Science, (2021).
