

Record 1 of 1**Title:** General Slot Stealing TDMA Scheme to Improve the Low Channel Utilization Factor**Author(s):** Stangaciu, V (Stangaciu, Valentin); Micea, MV (Micea, Mihai V.); Cretu, VI (Cretu, Vladimir I.); Groza, V (Groza, Voicu)**Book Group Author(s):** IEEE**Source:** 2015 IEEE 9th International Symposium on Intelligent Signal Processing (WISP) **Book Series:** International Symposium on Intelligent Signal Processing-WISP **Pages:** 1-4 **Published:** 2015**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**Usage Count (Last 180 days):** 0**Usage Count (Since 2013):** 0**Cited Reference Count:** 15

Abstract: Time division multiple access (TDMA) schemes are intensively being the main solution to provide predictability and timeliness in data communication systems requiring real-time operation. In this paper we investigate the problem of low efficiency and channel utilization, common to the TDMA algorithms. As a solution, we propose a general slot stealing version of TDMA, able to significantly increase the channel utilization factor, while preserving the required level of predictability, both in wired and in wireless real-time networks.

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