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General slot stealing TDMA scheme to improve the low channel utilization factor

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Abstract

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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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