



## **NETWORK MANAGEMENT ALGORITHMS FOR WIRELESS FIELD BUS CONTROL OF VERTICAL TRANSPORTATION SYSTEMS**

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**ABSTRACT**—In this paper the problem of creating a wireless infrastructure to control a vertical transportation system is addressed. The work assumes the use of the standard IEEE 802.15.4 as wireless control field bus. Throughout the paper different network topologies are analyzed together with the network management algorithms. As a result of this analysis the tree topology is selected and experimentally verified as the most suitable for the vertical transportation system.