
EURO-COST

- SOURCE: (1) University of Banja Luka, Faculty of Electrical Engineering,
 Bosnia and Herzegovina
- (2) DEI, Dipartimento di Ingegneria, dell'Energia Elettrica e dell'Informazione,
 University of Bologna, Italy

Experimental Characterization of Joint Scheduling and Routing Algorithm over 6TiSCH

Gordana Gardašević¹, Dragan Vasiljević¹, Chiara Buratti², Roberto Verdone²

Recently, the 6TiSCH (IPv6 over the TSCH mode of IEEE 802.15.4e) WG was chartered in order to accelerate the adoption of IPv6 in industrial environments. The newly released Time-Slotted Channel Hopping (TSCH) mode was introduced as an amendment to the Medium Access Control (MAC) portion of the IEEE802.15.4 standard. TSCH is the emerging standard for industrial automation and process control for Low-power and Lossy Networks (LLNs). This paper presents the preliminary results obtained from the IRACON STSM activity. The main goal of this joint activity is to integrate the research performed at University of Banja Luka, related to the implementation of IoT networks based on the newly proposed "IPv6 over TSCH - 6TiSCH" standard, and the research performed at the University of Bologna dealing with the definition of novel joint scheduling and routing algorithms for centralised IoT networks.

Contact:

Gordana Gardašević
University of Banja Luka
Faculty of Electrical Engineering
Patre 5
78000 Banja Luka
BOSNIA AND HERZEGOVINA
Phone: + 387 51 221 877
Fax: + 387 51 211 408
Email: gordana.gardasevic@etfbl.net