

Record 1 of 1**Title:** Application layer protocol for IoT using Wireless Sensor Networks communication protocols**Author(s):** Stangaciu, V (Stangaciu, Valentin); Stanciu, M (Stanciu, Madalina); Lupu, L (Lupu, Loredana); Micea, MV (Micea, Mihai V.); Cretu, V (Cretu,**Book Group Author(s):** IEEE**Source:** 2017 9TH INTERNATIONAL CONGRESS ON ULTRA MODERN TELECOMMUNICATIONS AND CONTROL SYSTEMS AND WORKSHOPS (ICUMT) B International Conference on Ultra Modern Telecommunications and Control Systems & Workshops **Pages:** 425-430 **Published:** 2017**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 References:** Atzori L, 2010, COMPUT NETW, V54, P2787, DOI 10.1016/j.comnet.2010.05.010

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Cited Reference Count: 20**Abstract:** This paper aims at providing a communication architecture in order to enable the integration of traditional Wireless Sensor Networks into Internet of Things paradigm. We focus especially on a communication protocol for providing connectivity between the smart objects and a central node. From the implementation and testing of the proposed IoT protocol, we measured the smallest memory footprint, which demonstrates that such a protocol may be easily integrated into smart objects represented by small embedded systems low on hardware resources**Accession Number:** WOS:000427948400070**Language:** English**Document Type:** Proceedings Paper**Conference Title:** 9th International Congress on Ultra Modern Telecommunications and Control Systems (ICUMT)**Conference Date:** NOV 06-08, 2017**Conference Location:** Munich, GERMANY**Conference Sponsors:** IEEE, IEEE Reg 8**Author Keywords:** Internet of things; wireless sensor networks; real-time applications; real-time systems; communication protocol**KeyWords Plus:** INTERNET; THINGS; CHALLENGES**Addresses:** [Stangaciu, Valentin; Stanciu, Madalina; Lupu, Loredana; Micea, Mihai V.; Cretu, Vladimir] Politehn Univ Timisoara, Dept Comp & Inform Timisoara, Romania.**Reprint Address:** Stangaciu, V (reprint author), Politehn Univ Timisoara, Dept Comp & Informat Technol, Timisoara, Romania.**E-mail Addresses:** valentin.stangaciu@cs.upt.ro; madalinastanciu12@gmail.com; loredanalupu349@yahoo.ro; mihai.micea@cs.upt.ro; vladimir.cretu@cs.upt.ro**Publisher:** IEEE**Publisher Address:** 345 E 47TH ST, NEW YORK, NY 10017 USA**Web of Science Categories:** Automation & Control Systems; Engineering, Electrical & Electronic; Telecommunications**Research Areas:** Automation & Control Systems; Engineering; Telecommunications**IDS Number:** BJ8BT**ISSN:** 2157-0221**ISBN:** 978-1-5386-3435-6

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