

Call for Participation

Date: Jul 3, 2014

Time: 14:00

Place: Auditório Teixeira

Estabelecimento de Chaves e Comunicação Segura para a Internet das Coisas

Davi Resner

Evaluation Committee

Prof. Dr. Antônio Augusto Fröhlich (UFSC)

Prof. Dr. Jean Martina (UFSC)

Bsc. Peterson Clayton de Oliveira (UFSC)

Msc. Rodrigo Vieira Steiner

Abstract

This work describes a protocol that provides a practical solution for the problem of cryptographic key establishment and secure communication in the context of Wireless Sensor Networks, in which computational efficiency is a fundamental requirement. Such protocol was implemented in the EPOS operating system and takes the form of a network layer that provides the principles of data integrity, authenticity and confidentiality. Tests were run on the EPOSMotell platform and the analysis of the results shows that the implementation is adequate to be used in the scenario of embedded systems with low processing power.

UFSC / CTC / LISHA
PO Box 476
88040-900 Florianópolis - SC - BRAZIL

Phone: +55 48 3721-9516
E-mail: lisha@lisha.ufsc.br
Web: <http://www.lisha.ufsc.br>