ARTICLE STRUCTURE

Title of the "paper" (max 100 char - spaces included) (example: LAURA — LocAlization and Ubiquitous monitoRing of pAtients for health care support - or – Problem investigation of min-max method for RSSI based indoor localization - or - IoT based Smart Agriculture)

Authors (es: F. Salice, A. Masciadri)

Abstract (min 800 - max 1200 chars - spaces included - Example: This works illustrates the LAURA system, which performs localization, tracking and monitoring of patients hosted at nursing institutes by exploiting a wireless sensor network based on the IEEE 801.15.4 (Zigbee) standard. We focus on the indoor personal localization module, which leverages a method based on received signal strength measurements, together with a particle filter to perform tracking of moving patients. We discuss the implementation and dimensioning of the localization and tracking system using commercial hardware, and we test the LAURA system in real environment, both with static and moving patients, achieving an average localization error lower than 2 m in 80% of the cases. The data sets containing the real measurements of received signal strengths collected during the experiments are made publicly available to enable reproducible research.)

I. INTRODUCTION (min 3000 - max 5000 chars - Spaces included)

II. RELATED WORKS (min 3000 - max 6000 chars - Spaces included)

III. PROPOSED SOLUTION (6000 chars - Spaces included - + a picture: For this session, a possibile organization is as follows: Specification (requirements functional - what the system does - and non functional requirements - cost, performance, reliability, etc.) , General Architecture (description, picture, modularity and modules -es: tags, transmission modules, servers, app; organization and roles of the modules, etc... - , etc - subsection is the sensors selection) , System Characteristics (relevant details of the systems. Examples are: calibration, initialization, algorithm principles and its meta-description, etc. , strategies for power/energy reduction, ...)

III-a Systems Specification

III -b General Architecture

III-c Relevant Characteristics of the System (example III-c-1. Automatic Calibration & Initialization III-c-2. Meta Algorithm)

III-? (use this if you need other space or sections) - Specify the title

IV. EXPERIMENTAL RESULTS (For this session, a possible organization is as follows: description of the prototype (platform, sensors and features, photography of the prototype, etc.), experiments and discussion (description of the experiments, data obtained, confusion matrix - precision, accuracy, etc. - tables, graphics, etc.) and)

IV-a Prototype

IV-b Experiments (organization and meaning of the experiments)

IV-? (use this if you need other space or sections) - Specify the title

V. CONCLUSION

VI. REFERENCES