Answer to the Reviews of paper: sensors-412105
Rate–Distortion Performance and Incremental Transmission Scheme of Compressive Sensed Measurements in Wireless Sensor Networks
Answer to Reviewer #1

Comment 1: The novelty or scientific contribution of this paper is unclear. CS has been widely used in WSN? Therefore, the difference between your work and others should be clarified in the introduction.

Answer/Action: We included text in the Introduction in order to clarify the contributions of this paper. Please, see the fifth paragraph of Section 1 in the new manuscript. Moreover, Section 2 presents several energy conservation schemes applied to WSN, including CS-based methods. We situate our work within the field in Section 2 and discuss the objectives and contributions of the paper in Subsection 2.1.


Answer/Action: We included the aforementioned references in the paragraphs 6 and 7 of the Section 2 (new manuscript).

Comment 3: The experiment part. The proposed method should be compared with two other similar works in the experiments to fully testify its advantages.

Answer/Action: We compare the CS scheme against reference [46] showing the advantages of the CS with respect of the NMSE and energy consumption, and included new results (see Figure 5, lines 7–12 of the second paragraph of Subsection 4.3 and paragraphs 4 and 5 of Subsection 4.3 of the new manuscript). Moreover, we included new results in Subsection 5.3.2 with respect to energy consumption. We included a new experiment showing the advantages of the proposed successive approximation scheme for energy conservation of sensor nodes. Please, see Table 4 and third paragraph of the Subsection 5.3.2 (new manuscript).