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Autonomous and Mobile Prototype of Curvature Sensor with Remote Reliable Communication of Spectral Curvature

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ABSTRACT

Through the creation and construction of a curvature sensor of accelerometer type, using the spectral curvature concept or curvature energy that measures curvature in Volts/m³, an autonomous and mobile sensorship of curvature sensing with reliable data transmission/reception in real time and remote position is designed and constructed considering the spectra of curvature of the measured curvature energy during the advance of the prototype as the normed measure by $\|v_x\| \leq C^\beta$ with β , a constant rationalized parameter according with the required advance of the mobile device in the control scale of their velocity. Likewise, the sensed curvature data are digitalized through wireless interconnectivity using a HC-05 Module with a programmable device that includes logic blocks whose interconnection and functionality can be configured according to the sensor measure *in situ*. Also an application is planted to the obtaining of an energy plus due to the curvature that could be used in the displacement of a vehicle.

KEYWORDS

Sensorship, Curvature Energy, Curvature Sensing, Curvature Sensor, Curvature Spectra, Mobile Curvature Sensor, Reliable Data Transmission/Reception

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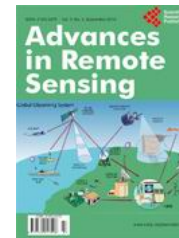
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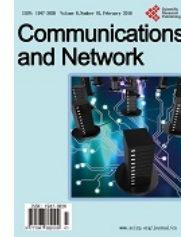
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