

Prototype development for sensor fusion in Wireless Sensor Networks

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Abstract

Wildlife mortality due to vehicle collisions represents an important issue widely investigated in the literature. A Wireless Sensor Network (WSN) infrastructure can be used in order to develop a monitoring system able to warn drivers of the presence of animals approaching the road. Each WSN node should be equipped with different sensors, like an ultrasonic sensor, a radar sensor and an infrared sensor. The key point is that these technologies are complementary to each other, since if properly used, they can offer useful and different information regarding the target present in their field of view. In addition, the well-known WSN features (e.g. scalability, configurability) allow deploying the monitoring system in a great variety of scenarios.

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