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Abstract: Sensors are the most important part of the robotics and the embedded system. We use the sensors to minimize the logic circuits and make the system more efficient. Beside advantages; recent advances, and cost reductions has stimulated interest in fiber optical sensing. Researchers has combined the product outgrowths of fiber optic telecommunications with optoelectronic devices to emerge fiber optic sensors. researches have been conducted in past decades using fiber optic sensors with different techniques. Intensity, phase, and wavelength based fiber optic sensors are the most widely used sensor types. In this paper, an overview of sensors and their applications are presented.

Keywords: sensors types , Fiber optics, optical fiber sensing, fiber Bragg gratings (FBGs), interferometry, micro bending, smart structures , IR sensors, temperature sensors, Touch sensors, Proximity sensors, UV sensors and advanced sensor technology.

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Authors: Ravi Lodhi, Shiv Kumar, Babita Pathik

Paper Title: An Attack Proof Trust Model for Secure Path Selection with Data Transmission in MANET: A Survey

Abstract: A Mobile Ad-hoc Network (MANET) is a network of mobile nodes which also act as routers and are connected by wireless links. These routers are free to move and organize themselves at random; thus, the network's wireless topology may change rapidly and unpredictably. The dynamic nature of MANET makes network open to attacks and unreliability. MANETs are vulnerable to various security attacks. Hence, finding a secure and trustworthy end-to-end path in MANETs is a legitimate challenge. Dynamic source routing set of rules is a functional protocol in wireless mobile ad-hoc network (MANET). Data Safekeeping and detection of malicious node in MANET is an imperative job in any network. To achieve reliability and availability, routing protocols should be powerful against malicious attacks. This paper provides survey to the attacks while data transmission and finding secure route in MANET.

Keywords: MANET, secure routing, malicious attack, Ad hoc Network, Wireless Routing Protocol, trust value.

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The aim of the current study is to develop a methodology able to identify, classify and monitor the reintroduction risk points of foot-and-mouth disease (FMD) in order to support an epidemiology monitoring system. The study was conducted in Maranhão State. The methodology was developed in six stages, namely: i) identifying the reintroduction risk points of foot-and-mouth disease; (ii) assessing the risk per identified point; iii) analyzing the spatial distribution of risk points; iv) identifying livestock properties under the highest epidemiological risk in comparison to the identified risk points; and vi) systematizing the model used to monitor risk points and livestock properties under the highest epidemiological risk. It was possible identifying and mapping possible points of introduction and/or dissemination of vesicular diseases in 2013 (917 points), 2014 (943 points) and 2015 (886 points). Three hundred and twenty-seven (36.91%) out of the 886 points referred to the rural areas.
identified in 2015 were classified as of low risk: 55.87% (n = 495), as of medium risk; and 7.22% (n = 64), as of high risk. The identified points were monitored on a monthly basis, as indicated for the herein assessed risk level, and it totaled 5,021; 5,382 and 5,441 inspections, respectively. Livestock properties under the highest epidemiological risk were also identified, and it totaled 2,894 properties in 2013; 3,057, in 2014; and 3,159, in 2015. These properties were inspected every six months, and it totaled 2,240; 2,294 and 2,353 inspections, respectively. It was concluded that the methodology enables epidemiologically monitoring the introduction risk points of Foot-and-Mouth Disease through risk analysis and geoprocessing in association with classic methods.

Keywords: Epidemiology, Foot-and-mouth disease, Risk analysis, Geoprocessing.

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