320 Research paper

Animal Sound...Talks! Real-time Sound Analysis for Health Monitoring in Livestock

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In **Significant Impact Groups:**

Precision Livestock Farming & Early detection \ Sensor technology

Species targeted: Pigs;Beef;

Age: Young;

Summary:

Precision livestock farming (PLF) is a livestock management technology. Sound-based PLF techniques have significant advantages over other technologies such as cameras. Besides the fact that microphones are contactless and relatively cheap, there is no need for a direct line of sight, while large groups of animals can be monitored with a single sensor in a room. This paper presents an example of a PLF product, the respiratory distress monitor, which automatically monitors the respiratory health status of a group of pigs. Results of five different use cases are discussed to show the effectiveness of the respiratory distress monitor as an early warning tool for respiratory problems in a pig house. It is demonstrated that the tool works for the early detection of animal responses due to technical issues (ventilation problems) and health issues in a wide range of different conditions in commercial European pig houses.

Where to find the original material:

https://limo.libis.be/primo-explore/fulldisplay?docid=LIRIAS1673361&context=L&vid=Lirias&search_scope=Lirias&tab=default_tab&lang=en_US&fromSitemap=1;

Country: BE