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Distributed virtual system for dolphins' sound acquisition and timefrequency analysis(Conference Paper)

Postolache, O., Girão, P.S., Pereira, M.D., Figueiredo, M.

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Краткое описание

Dolphins are mammals whose sound emitting and hearing capabilities are very important tools for their underwater life. At the same time, dolphins' life activities assessment uses dolphins' emitted sounds to localize them and to better understand their habits and behavior. The present work reports a distributed virtual instrument based solution for dolphin sounds acquisition, transmission and analysis (Dolphin Monitoring Network). The system hardware includes a set of field listen cells constituted by a hydrophone connected to a TCP/IP audio server. For wireless communication, a wireless bridge is connected to the audio server Ethernet port. Using tailor-made LabVIEW software, which includes several iTalk/X (ActiveX) components, the data is received by a Wi-Fi connected laptop-based monitoring base station. The recorded sounds are analyzed by a time-frequency analysis block implemented within the software associated with sound classification tasks.

Актуальность темы SciVal

Тема: Killer Whale | Dolphins | Longline Fisheries

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Ключевые слова автора

[Time-frequency distributions](#) [Underwater sounds](#) [Virtual systems](#) [Wireless network](#)

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