

## News & Comments

# A Tool for Real-Time Identification of Marine Mammal Calls

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There has been a new development in artificial intelligence that can detect the noises of aquatic animals. We call it DeepSqueak.

To promote the wide adoption of rodent vocalization, the technology was initially developed to remove technological barriers. The technology can now be applied to vast datasets of marine bioacoustics.

Spectrograms are analyzed by DeepSqueak using deep neural networks to recognize and classify the salient features, which are then matched to particular sources.

Recent presentations of DeepSqueak technology at the 182nd Meeting of the Acoustical Society of America show it to be very accurate in detecting acoustic signals beneath water or in deep seas.

Based on where certain acoustic signals are heard and at what frequency, it creates what looks like heat maps of the ocean. Other animals then receive these signals.

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### **KEYWORDS**

artificial intelligence, AI, DeepSqueak, deep squeak, neural networks, acoustics, squeaky recordings, animal vocalization, understanding, ocean, sea.

