

Cusat to Develop Automated Sound Classifier

Kochi: The Cochin University of Science and Technology is all set to develop a unique automated sound classifier to identify and differentiate sounds beneath and around the coastal waters. The ₹43.55 lakh project titled, 'HMM Based Target Classifier,' with improved success rates, has been sanctioned by the Naval Research

Board, Government of India.

"Through this project we are intending to develop a Classifier, which would enable to differentiate specifically each and every sound in the Indian Ocean, whether it be a small ship or a submarine."

Presently, the country, which has only a SONAR classifier system to identify

these ocean sounds, maximum exploits the human senses to identify the sound of any movement in the ocean. Every ship, boat or submarine, in spite of having a unique combination of engines, propellers, etc., has a separate noise. But, the SONAR classifier does not enable to classify minute distinctive sounds. "Sometimes

the sound of a ship approaching is hindered by the other sounds in the ocean," Assistant Investigator of the project and Cusat professor Supriya M H said.

Though similar researches have taken place in the past on developing such classifiers, it has not been successful as many of the techniques have proved to be complex.