

Amrita University dedicates wireless landslide

Express News Service
First Published : 19 Sep 2009 12:45:00 AM IST
KOLLAM: The landslide detection system, a revolutionary wireless sensor network developed by the Amrita University, was dedicated to the nation on Friday at a function held on the Amritapuri campus in Kollam.

The system, first of its kind in the country, was dedicated to the nation in the presence of around 25 experts from all over the country, including heads from the Defence Research and Development Organisation (DRDO).

They also witnessed the system transmitting data live from the landslide site in Munnar in Idukki district.

Amrita University Vice-Chancellor Dr Venkat Rangan delivered the welcome address. Prof Vinod Chandra Mohan, member, National Disaster Management Authority, Dr Sreehari Rao, scientist and Chief Controller R&D (ECS), DRDO, Major General R Sivakumar, Head, Natural Resources [Data Management](#) System(NRDMS) & National Spatial Data Infrastructure (NSDI) Division and Dr Maneesha V Ramesh, head, Centre for Wireless Networks & Applications, Amrita University, delivered keynote addresses.

Amrita's wireless landslide system is the culmination of years of research and development as part of WINSOC ([Wireless](#) Sensor Networks with Self- Organisation Capabilities for Critical and Emergency Applications) project.

The project has brought together nine top European universities and research organisations and two Indian partners.

Amrita University is the only Indian university partner.

The system consists of a complex network of 50 geological sensors interconnected by multiple wireless communication links including WiFi, Zigbee, and VSA T, all providing data 24 hours a day to Amrita's central data centre at Amritapuri.

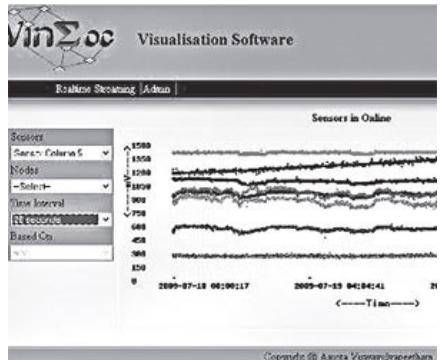
The Amrita has plans to extend this network to 150 geological sensors and 25 wireless sensor nodes within the next 3 months, as part of the research funding provided by the Government of India.

Last July, the system successfully issued a warning of a possible landslide in Munnar during the torrential rains.

The signals from the system have been made available online at [www.winsoc.org](#). This data can be used by researchers all over the world to study signal variations and patterns that can lead to landslides on a real-time basis.

The Department of Science and [Technology](#) and DRDO have shown interest in the application of this technology in the landslide/ avalanche prone areas of the Himalayan ranges.

Apart from landslides, the system can have broad applications in monitoring floods, avalanches, gas leakages, forest fires, water contamination, border [security](#), healthcare, etc., in various parts of the country.



Landslide monitoring data being received live from the [system](#) in operation

rediff.com just your stuff
Dam the Spam
Get Rediffmail Spam Protection
Click here to start

- Email Print Delicious Digg Google Facebook Yahoo Reddit

Comments

Be First and Enter Your Comments ...

Post your comments *

[Empty text box for comments]

Email * [input field]

Name * [input field]

Verification Code * 5352088

Enter numbers shown in image * [input field]

