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Coimbatore univ develops wireless tech to detect landslides

11 Jun 2009, 0322 hrs IST, TNN

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| COIMBATORE: Students of Amrita Vishwa Vidyapeetham University here have developed a wireless network system for landslide detection, in collaboration with European commission and Indian Space Research Organisation (ISRO). | | | | | | Hoist trice insulted f 2 arreste SC issue |
| | | 1 | "Landslides mountainou during mons in advance | Anna Sal poster-fre | | |
| | | | Amrita unive communica students in has become | ersity. An exp tion, Rangan | | Videos |
| | | : | The technological breakthrough system was developed as part of the research project WINSOC' (wireless | | | |
| | | | sensor network with self-organisation capabilities for critical and emergency | | | - |
| applications). Wireless panels with sensor nodes to read different parameters of the soil, like moisture, vibration and movement will be embedded 15 metres beneath the earth at different points, says Maneesha Ramesh, a faculty member, who was part of the project. | | | | | | |
| These sensors will be attached to a wireless transmission device, which will convert analog value into digital value and send the inputs to the base stations, which will be | | | | | | |
| connected to | connected to Amrita mutt's Kollam campus. "Experts will be monitoring the inputs the base stations in real time and any unusual behaviour or extreme value will trig | | | | | |
| | alarm," says Dr Rangan. The fully tested model has become operational in Munnar. | | | | | My Times, Do you the |

The system can be deployed in any part of the country prone to landslides and snow avalanches. Besides, the application could be put to industrial use for study of gas leakages or in conservation of forests by early identification of forest fires during summer.

As part of this project, representatives from various European partners like University of Rome, Selex Communications, Intracom Telecom, Czech Centre for Science and Technology have arrived at the Amrita University to learn about the first-ever wireless sensor network system for landslide detection.

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