

## Intelligent Indian Optical Receiver for Emergency Communication



### Overview

The IIT Indore team, led by Dr. Swaminathan R, is developing intelligent receivers that can accurately decode data even in noisy and interference-laden environments, thereby enhancing 6G performance and military communications security. These receivers can automatically detect and decode essential communication methods, such as modulation, channel coding, and. Indian Institute of Technology (IIT) Indore is making strides in advancing communication systems, with an innovative project under the supervision of professor Dr Swaminathan R from the Electrical Engineering Department of the institute, according to a release.

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As India advances toward 6G technology, IIT Indore is developing intelligent receivers to significantly enhance military communication capabilities, an official reported.



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IIT Indore is pioneering the development of intelligent receivers that automatically detect and decode communication methods, significantly enhancing military communication security and 6G ...



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The team is developing intelligent receivers that can automatically detect and decode key communication methods, such as modulation, channel coding, and interleaving, which help transmit ...



Unlike traditional multiple receiver systems, IIT Indore's solution strives for a singular, adaptable receiver. Deep learning algorithms are pivotal in this innovation, allowing receivers to ...



This technology is vital for future 6G networks and military communications. It enables receivers to decode signals in difficult environments, like when military transmissions are intercepted.



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