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UIDAI - IIT Bombay join hands to develop touchless biometric capture system

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Ministry of Electronics & IT



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Unique Identification Authority of India (UIDAI) has joined hands with Indian Institute of Technology, Bombay (IIT-Bombay) to develop a robust touchless biometric capture system for easier usage by people anytime, anywhere.

As part of the memorandum of understanding, UIDAI and IIT Bombay will carry out joint research to build a mobile capture

system for fingerprints along with liveness model integrated with the capture system.

The touchless biometric capture system, once developed and operational, will allow fingerprint authentication from home alike face authentication. The new system is expected to capture multiple fingerprints at one go and aid authentication success rate further. The new system once in place will be an addition to the existing facilities available in the Aadhaar ecosystem.

Such a system will use an intelligent combination of signal/image processing and machine learning/deep learning with a common mobile phone available to most citizens with a good user experience. This will be a step forward in making Universal authenticator a reality.

The collaboration between UIDAI and IIT Bombay through its National Centre of Excellence in Technology for Internal Security (NCETIS) will lead to joint engagement in research and development (R&D) for development of a system for UIDAI. The NCETIS is a joint initiative by IIT Bombay and the Ministry of Electronics and Information Technology (MeitY), under its flagship Digital India Programme. The NCETIS is aimed at developing indigenous technology solutions for Internal Security forces in broad areas of Electronic System Design and Manufacturing.

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