
MIT Monitoring Device Reduces COVID-19 Transmissions



MIT's Computer Science and Artificial Intelligence Laboratory ([CSAIL](#)) has developed a device that can monitor a COVID-19 patient's breathing and movement patterns through wireless signals.

Called 'Emerald', the device is being used in a variety of hospital and assisted living facilities that include a COVID-19 patient.

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Similar to a Wi-Fi box, Emerald analyses wireless signals using AI to follow people's vital signs, sleep and movement. Carers and medics can track signals remotely, cutting out the need to conduct observations and other tasks in person, reducing the possibility of two-way virus transmission.

The signals emit roughly 1000 times less radiation than a standard mobile phone.

The device could also be deployed around the clock to detect other respiratory problems.

Developed by MIT professor Dina Katabi and her research group at CSAIL. Commenting on the [threat of COVID-19 to vulnerable communities](#), she said that the disease is particularly challenging for facilities with vulnerable populations who already have other health conditions.

Katabi added that Emerald could assist in triaging patients less severely affected by COVID-19 through home monitoring and rapid response in the event of deterioration.

Source: [CSAIL MIT](#)

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