Ultrasonic smartphone communication

When sharing links or chatting on smartphones, the communication partner normally has to be known. Sometimes it would be useful to be able to share a link with everyone in the room or maybe you want to chat with people on the same train. In these situations it would be useful to have an easy way to communicate between nearby smartphones.

Current smartphones are able to produce and record audio in the near ultrasonic range. Therefore, it should be possible to use these signals to communicate between devices. Compared to other technologies available on smartphones, this connection would not need any pairing of the phones.

The goal of this project is to implement an app that is able to communicate over ultrasound.

We have some ideas on how to approach this task, but we would love to hear your take on this as well! If this sounds interesting to you, do not hesitate to contact us so we can have a chat.

Requirements: Programming experience is an advantage. There will be weekly meetings with your supervisors to discuss progress and open questions.

Interested? Please contact us for more details!

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