**MISTREAM: LIVE CROWD STREAMING**

**SOFTWARE**

Software enabling the creation of a cellular wide-area network through Wi-Fi Direct. Facilitates robust, high-quality, multi-user live crowd-streaming.

**TECHNOLOGY TYPE**

Cellular Communication Networks

**STAGE OF DEVELOPMENT**

- Prototype developed and tested.
- Designing user-friendly system and application.

**IP PROTECTION**

U.S. Utility Patent Pending

Method and System for Data Streaming

*US20170289215A1*

**DATE UPDATED:** 4/10/2019

**TECHNOLOGY SUMMARY**

Live-streaming is growing in popularity with the rise of applications like Facebook Live, YouTube, Meerkat and Periscope. Yet, live-streaming has limitations: video streaming often requires large amounts of bandwidth, resulting in lower quality video/audio and loss of signal.

*mIStream* splits streaming cellular data to numerous forwarder cells which then transmit the data via multiple cellular paths. A gatherer then combines the multiple streams of data to seamlessly recompile the original stream. This creates a more robust signal network, allowing high-quality, higher-bandwidth streaming despite individual cellular data limitations and fluctuations. Having forwarder nodes on multiple cellular networks reduces dead zones and improves the overall throughput.

**FEATURES AND BENEFITS**

- Provides a more stable video conversation experience as the number of diverse cellular providers in the network increases.
- Minimizes fluctuations in streaming quality.
- Total aggregate throughput increases as more cellular connections are used.

**RECENT PUBLICATIONS**


**INVENTOR PROFILE**

**Sneha K. Kasera**, Ph.D., Professor – School of Computing

**Philip Brandon Lundrigan**, Graduate Research Assistant – School of Computing

**DATE UPDATED:** 4/10/2019