ULTRASONIC BEAMFORMING

Ultrasonic beamforming is a technique used to carry audible sound in highly directional sound beams. This technique has yielded the ability to dynamically steer, focus, spread and reflect sound beams using software or other hardware interfaces. Additional beam behaviors have been developed for performance and site-specific installations, such as spatial granulation and manipulating the internal topology of a sound beam. Paired with sensing systems, the sound beams can follow listeners, wander on their own, reflect off walls and bodies, scatter apart and re-form in response to environmental conditions. The technology continues to
evolve through its use in a variety of artistic contexts which utilize its inherently spatial behavior and unique perceptual qualities.

People Involved: Michael McCrea, Juan Pampin
Research Type: Technology
Status of Research or Work: Ongoing

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