THE SHANNON EFFECT

A multi-dimensional performance of the Human Digital Orchestra™ celebrating the life of Claude Shannon

NOKIA Bell Labs
The Shannon Effect is the first experimental performance piece in the new Nokia Bell Labs series dedicated to the fusion of art and technology. This performance represents the re-start of the Experiments in Art and Technology™ series Nokia Bell Labs pioneered almost 50 years ago. The performance will feature the Human Digital Orchestra, which is comprised of multimedia elements (music, video, spoken word) that are orchestrated and conducted by the movement of artists and the audience itself through the digital ether. In effect, the invisible network that increasingly connects and controls our existence with be made visible.
THE SHANNON EFFECT

A MULTI-DIMENSIONAL PERFORMANCE

In collaboration with Stevens Institute of Technology, this performance will express the life and genius of Claude Shannon.

“The Shannon Effect” will intertwine highly experiential audience interaction with Nokia Bell Labs’ “Human Digital Orchestra”, mapping diverse Internet of Things input and output modalities in a spectacular “hyper-spectral synesthesia”.

NOKIA Bell Labs
MAKE VISIBLE WHAT IS INVISIBLE

Hyper-spectral Synesthesia

Public Space
- Device
- Location
- Camera
- Position & Gestures

Abstraction Layer Processing
- Analysis
- Filtering
- Selection
- Control
- Command

The Sound and Voice of the Network
- Music
- Voice Synthesis
- Visualization

HUMAN DIGITAL ORCHESTRA™

Human Orchestrator

NOKIA Bell Labs
Performers and their wearable sensors together comprise the inputs to the Human Digital Orchestra system.

Performers’ motions and locations are analyzed to control and determine the artistic audio and visual experience.

The audience is then transformed into the “Conductor” of the Human Digital Orchestra.

The Bell Labs application processes the audience digital sensory data and sends the essential synthesis to the Human Digital Orchestra Server.

Audience motions and locations are now analyzed to control and determine the artistic audio and visual experience.
Come and join us for this unique performance as we restart the Experiment in Art and Technology (E.A.T.) tradition that we started almost 50 years ago.