ERRAI

Errai, by Ewa Trębacz. | Documentation video still.

View gallery

Errai: Immersive Audiovisual Space, for horn, soprano, and audiovisual immersive media, Ewa Trębacz (2009)

Errai is an audiovisual immersive work by Ewa Trębacz, created in collaboration with Josiah Boothby (horn), Anna Niedźwiedź (soprano) and Robert Sowa (light animation). It combines live performance with a pre-recorded Ambisonic soundscape, stereoscopic video projection, and live light animation.

It was premiered on September 19, 2009 at the Extra-High Voltage Hall, Institute of Power Engineering in Warsaw Poland, within the 52nd International Contemporary Music Festival "Warsaw Autumn". Ambisonic recording from the premiere at the Warsaw Autumn Festival 2009 was realized by Joseph Anderson. In 2013 a new stereo version of this recording, realized with the use of ATK software package, was included on Ewa Trębacz's monographic CD.

Errai is based on encounters of spaces and encounters of artistic personalities, where the entire physical and perceptual space, including the audience, is considered the resonance box of a single instrument. Selected immersive technologies are combined together in an attempt to challenge our perception of the real and the imaginary.

AUDIO. The process of creating the audio layers started with a series of field recording sessions realized in full surround using Soundfield ST-250 and ST-350 Ambisonic microphones. The locations were chosen for their unique acoustic properties. The musicians, Anna Niedźwiedź and Josiah Boothby, were directed to explore the acoustic and artistic potential of these spaces by improvising short phrases and responding to each other, and the spaces around them. The live performance during the concert then creates a response, traveling through layers of memory with a reference to here and now.
VIDEO. The stereoscopic video layer, created by Ewa Trebacz, explores a full spectrum of continuous change of perceived depth over time - a phenomenon not available through a direct experience in the real world. It is being referred to as depth modulation. Layers of images evolve, creating images from true stereoscopic through a flat 2D to pseudostereoscopic images, while the dynamics of change varies between layers. At times the only perceivable movement is an expansion or contraction of a space, at other times each of the layers moves and evolves at a different pace.

LIGHTING. Light animation, designed by Polish artist Robert Sowa, was used to construct an immersive 3D space, stretching between the virtual 3D space created by the stereoscopic video and the real world. It encloses an audience creating continuity between the physical space and the virtual 3D space. At times, lighting interacts directly with the 3D projection, with spot lights pointed directly at the projection screen creating an independent layer in a 3D space. After the 3D projection is over, the viewer remains immersed. The light descends from above the projection screen through it to the bottom of the hall, finally releasing the audience from this constructed space.
SPACES COMPETE. While the sound fills the entire physical space, and even extends it, the visual layers focus the visual perception at certain moments, events, and selected parts of the time-space. Spaces overlap. Sound and imagery compete for audience attention demanding at times an extreme focus and willingness to stretch the borders of perception.
The premiere of \textit{Errai} during the 52nd International Festival of Contemporary Music WARSAW AUTUMN was supported by Mid Atlantic Arts Foundation through USArtists International in partnership with the National Endowment for the Arts, the Andrew W. Mellon Foundation and the Trust for Mutual Understanding.

With special thanks to Center for Digital Arts and Experimental Media (DXARTS) and Centrum - Fort Worden (centrum.org).

People Involved: Ewa Trebacz
Adviser: Juan Parrosh
Research Type: Creative Work, Graduate, Dissertations
Status of Research or Work: Completed/published
Related Fields: 3D Audio, 3D Video and Animation, Ambisonics, Immersive Media, Perception and Cognition, Site Specific Art, Video Art, Visual Arts

Department of Digital Arts and Experimental Media - DXARTS • University of Washington • 207 Raitt Hall, Box 353414 • Seattle, WA 98195-3414
Telephone: (206) 543-4218 • Fax (206) 616-3346 • Email: dxarts@uw.edu

Copyright © 2012-2020 University of Washington | Privacy | Terms | Site Map | Contact Us

Source URL: https://dxarts.washington.edu/research/creative-work/errai