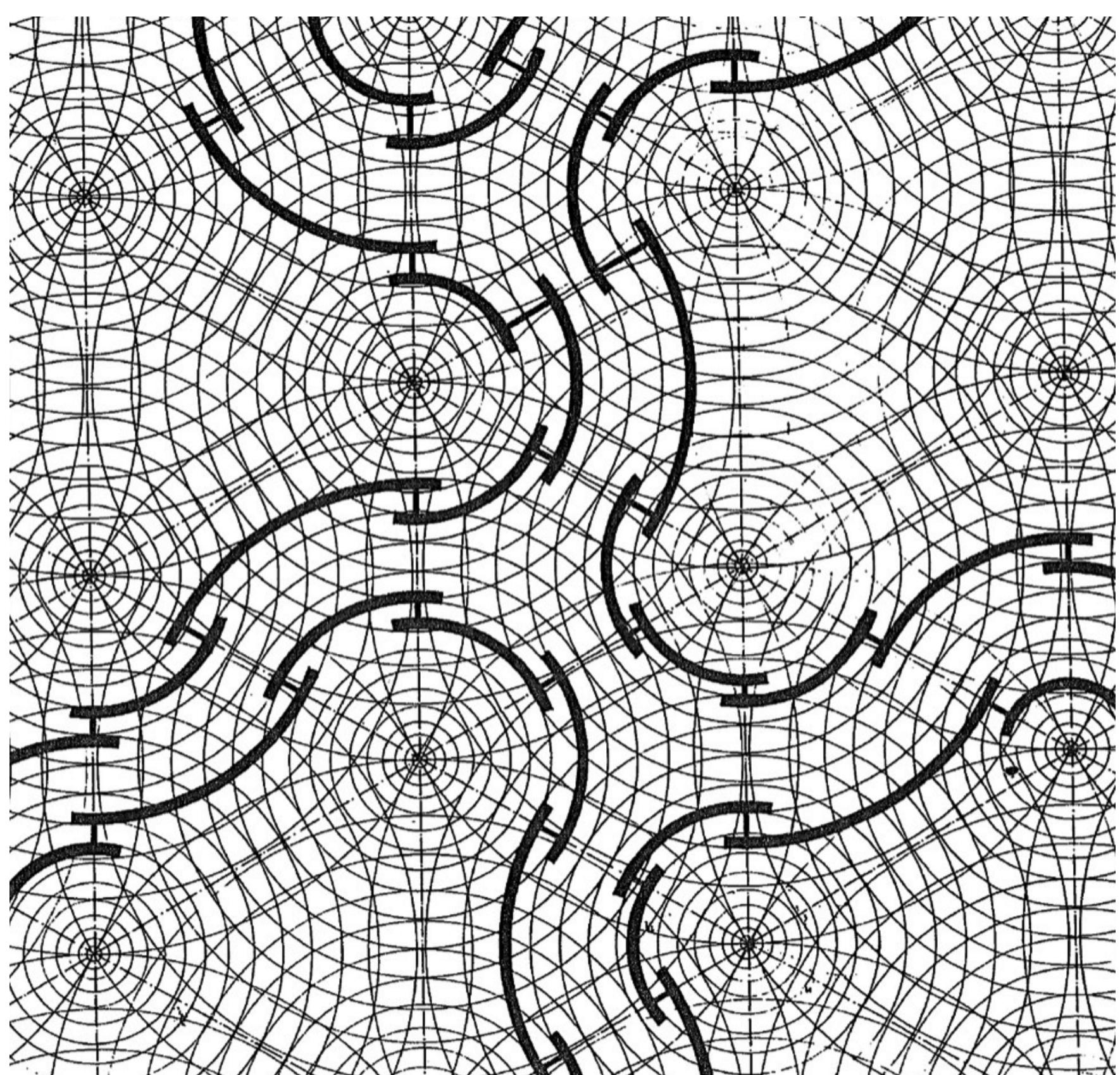


PART 1 *Dr. Sergei Gepshtain*

SPECIES OF SPACE

Experience of space in science and design



Architects spend their time creating walls, facades, floors and roofs – containers of space.

But are they missing a key ingredient?

Dr. Sergei Gepshtain, who directs research of Adaptive Sensory Technologies at the Salk Institute in San Diego, and research of Spatial Perception and Concrete Experience at the University of Southern California in Los Angeles, investigates the notion of a new architectural object.

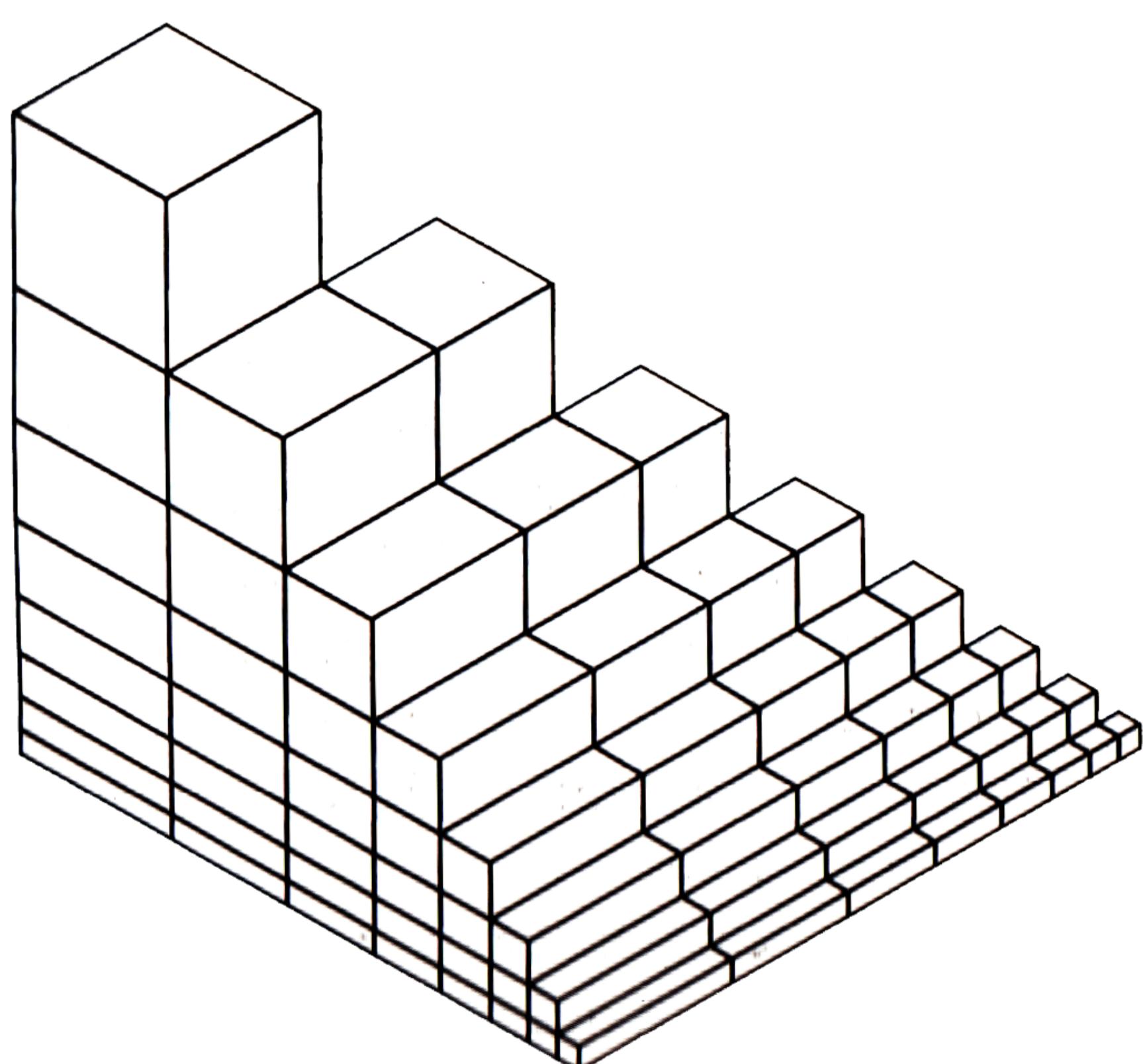
He shows how the space of experience is articulated by boundaries that arise from the human body. Although intangible and fluid, these boundaries are nevertheless real and systematic, which is why they readily yield to the methods of science.

Dr. Gepshtain is a scientist working in the areas of perceptual psychology and systems neuroscience. His research interests include perception of **depth and movement, perceptual organization and Gestalt, multisensory integration, planning of multistep actions, and dynamics of cortical neural networks**. He is a member of the Center for Neurobiology of Vision at the Salk Institute for Biological Studies (San Diego) and Adjunct Professor at the School of Cinematic Art at the University of Southern California (Los Angeles). At the latter, he recently founded the Center for Spatial Perception and Concrete Experience: a platform for investigating spatial experience as a natural narrative process.

PART 2 *Dr. Sergei Gepshtain & Dr. Tiziana Proietti*

ARCHITECTURAL PROPORTION FROM AN EMPIRICAL STANDPOINT

An interdisciplinary program of research



How does architectural proportion affect our experience of the built environment? After centuries of pondering the role of proportion in architecture, this question has remained unanswered. Drs. Tiziana Proietti and Sergei Gepshtain attack this controversy from a modern standpoint that incorporates the scientific method. They have developed an interdisciplinary program of research in which they **study the perception of proportion using methods of sensory psychophysics and systems neuroscience**. They argue that, as a starting point, it is important to understand under which conditions proportions are perceptible by the flesh-and-blood person who moves freely through space and observes it under various distances and angles.

The Sense|Base laboratory, directed by Dr. Tiziana Proietti, is housed at C. Gibbs College of Architecture of the University of Oklahoma. It is an interdisciplinary laboratory that bridges architecture and neuroscience with an emphasis on the perception of architectural proportion.

Supported by the Bruce Goff Chair of Creative Architecture. For more information or to request accommodations, please contact Tiziana Proietti: tiziana.proietti@ou.edu

