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Two generative tendencies in the Polish 20th century avant-garde

paper



Topic: Art

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Abstract:

Art historians while analysing the development of the avant-garde in Poland in the second half of the twentieth century, mostly refer to formal currents, rooted in the ideas characteristic for the historical avant-garde of the 20s and 30s. They concentrate on the work of such artist like Tadeusz Kantor or Henryk Stażewski. However in the late 60s and in the 70s completely new tendency appeared, the progressive activities based on such media as photography, film, video. We may say thus avant-garde artists in Poland were developing two different approaches. We can notice the same situation while observing the beginnings of generative art in Poland. In my paper I want to analyse this issue, taking as examples works of two artist: Ryszard Winiarski and Wojciech Bruszewski., to show two different way of making generative art. This analyse will let me also to reflect on some theoretical issues connected to the topic.

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Keywords: Generative art, avant-garde, Polish art, interactive art, installation, Ryszard Winiarski, Wojciech Bruszewski



Topic: Molecular Art

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Abstract:

Motivated by the early efforts of the mathematical genius of Felix Klein of the Erlangen Program fame, who made interesting efforts to provide some mathematical description of those geometrical shapes which people find beautiful, the study of molecular shapes involves both geometrical and topological approaches [1-4]. The perception of molecular beauty, intricate shapes, as well as an intriguing combination of functionality and shape changes, provide impressions which are leading to the initial scientific associations as the seeds for both novel scientific methods and to a new appreciation of the artistic richness of the microscopic world of molecules. The two images of the electron density cloud of the alanylalanine dipeptide molecule, shown below, exhibit many of the richness, beauty, and grace of molecular shapes. The mathematical tools of topology used for their characterisation provide the intellectual beauty of logical harmony of human thought processes with the natural world.



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Keywords:

Molecular shape, topology, molecular beauty, shape analysis, shape groups, similarity measures, complementarity measures