

## STRESZCZENIE PRACY W JĘZYKU ANGIELSKIM

Flor | AVI is an art action and a multimedia instrument that enables an insight into dynamics of nature and uses natural processes to generate audiovisual structures. Changes in electrical resistance in plant organisms are translated to sound and image using audio generators and a video synthesizer. The use of the dynamics of natural processes makes it possible to obtain new audiovisual structures through a constant inflow of unpredictable material. The work is a point of fusion of improvisation, interaction, performance, composition and contemplation of reality, obtained through the acceptance of a natural process as a generative medium.

Scope and methodology of research in areas of sound and image are discussed. Techniques of transposing measurements of electrical resistance of plants to sound and image are described. Exploration of sound medium and the use of analog and digital audio synthesis techniques (analogue modular synthesis, digital granular synthesis, software synthesizers and samplers) is presented. Methods of generating visual forms from plant life processes (synthesis using the Pure Data/GEM programming environment and the use of a hardware video synthesizer) are presented along with image synthesis algorithms used. Formal choices regarding the visual layer in relation to dynamics of plant signals are discussed. Correlations between sound and visual layer of work are described. Conclusions are presented in the broader context of author's oeuvre.

Flor | AVI aims to integrate sound and image, making it possible to observe correlations in sound and visual layers, which reflect natural processes. It aims at audiovisual synergy, with the least possible interference in the dynamics of signals coming from plants. It is a laboratory that allows observation of the emergence and disintegration of forms whose source comes directly from nature and in which incorporating of the world into the body of work happens, instead of its imitation.