

MT. FUJI IN MATHEMATICAL FUNCTIONS

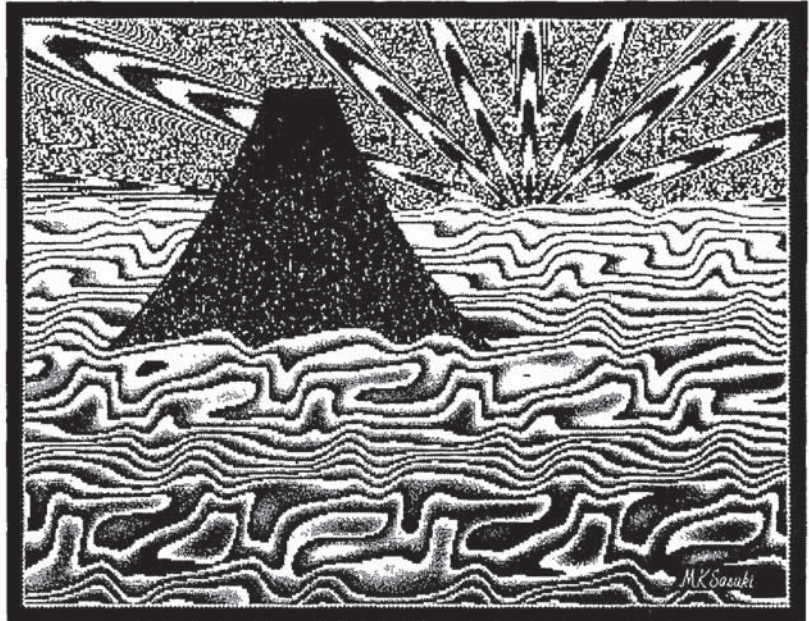
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The picture generated by mathematical functions are usually too much regulated and it gives us a cold impression. However, skillful usage of mathematical functions allows us to generate various patterns which give us warm and dynamic feeling. In order to generate pictures which appeal to our feeling, a series of ART systems (self-developed computer art systems) have been developed and improved. ART is an abbreviation for Artistic and Realistic Technician. The latest version of ART system is ART-4.

In ART-4 system, the pattern, texture and color are controlled by mathematical functions. The outlines of several natural objects are input into computer as hand-drawn figures.

Figures 1 and 2 show pictures generated by ART-4 system. In these pictures, only the outline of Mt. Fuji is a hand-drawn figure, while sunlight, cloud and fire are expressed by combining simple functions. With these pictures, we may say that dynamic and wonderful pictures can be generated by mathematical functions without inserting special algorithms. More interesting and various pictures can be drawn by devising the mathematical functions variously.

Mt. Fuji in Mathematical Functions



Mt. Fuji in cloud sea #2



Mt. Fuji in fire #2