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Poster : **Galatema : A Framework for Generative Cinema**

Abstract:
Galatema is a new generative project about making some pieces of generative cinema. All films begin with a story or a script. So, Galatema propose a framework to generate 2D or 3D films, from a story and a study with a mind map software for the basic architecture of the film.

Then, the Galatema software propose to build the architecture directly as a nodal representation for the entire production, mixing nodes for characters, props, lights, actions, etc.

Some generative methods (using Genetic Algorithm, Content Based Image Retrieval, Machine Learning, Principal Component Analysis,etc.) are used to make the film.

The artist can produce different kinds of film, controlling the generative methods involved to make the shots. So with this framework, we can make some nearly classic reels (animatics) or some new experimental cinema.
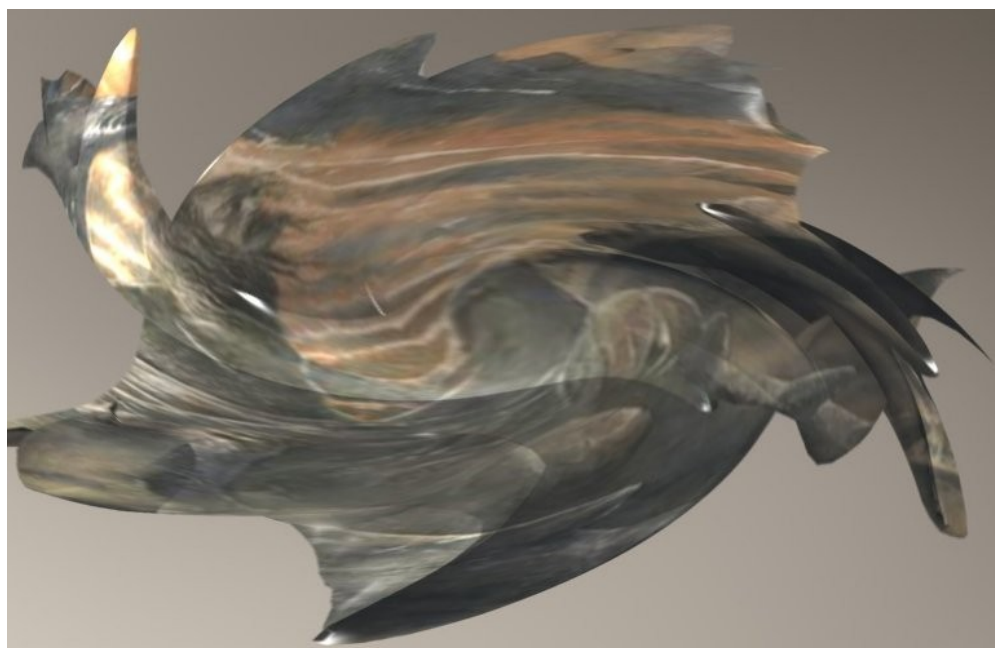
Topic: Art

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References:
[1] Lioret Alain,
"*Emergence de Nouvelles Esthétiques du Mouvement*",
L'Harmattan, Paris, 2004

Image of Eriol I made with Galatema.

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Keywords:
Genetic Algorithm, Machine Learning, PCA, Cinema, Mind Map, Content Based Image Retrieval