

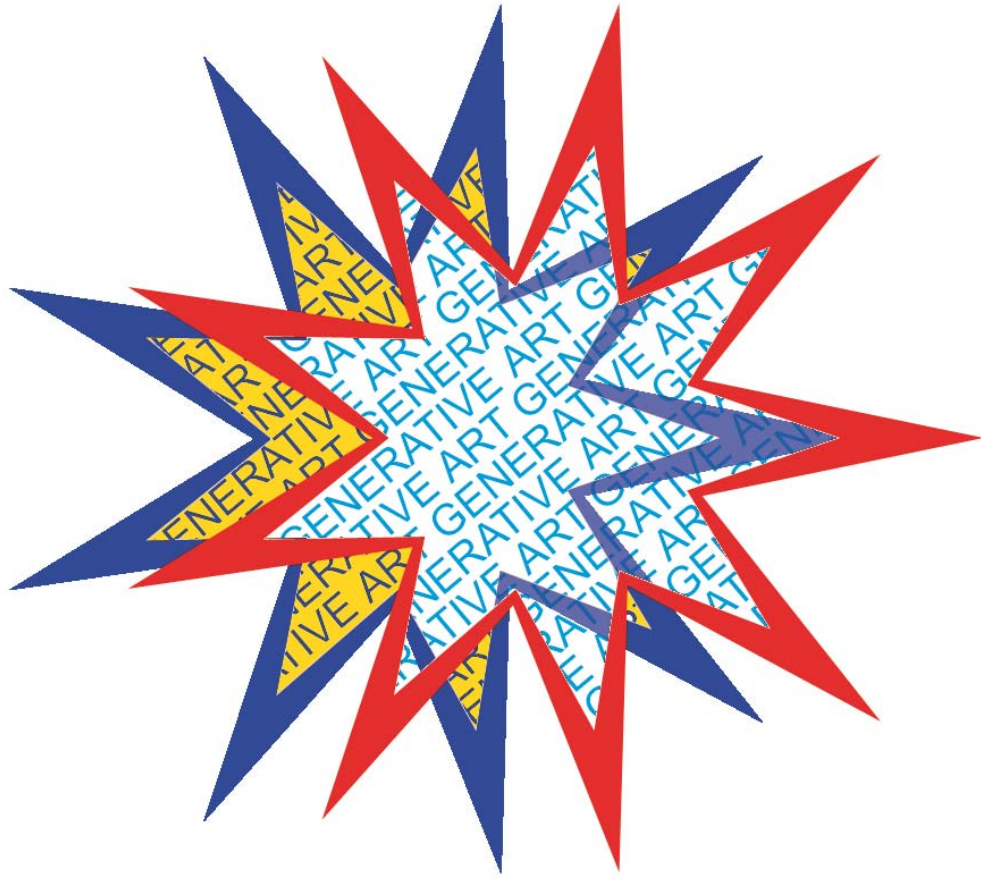


XXI GENERATIVE ART 2018

proceedings of
XXI Generative Art conference

edited by
Celestino Soddu
Enrica Colabella





GENERATIVE ART 2018

GA2018, XXI Annual International Conference

Italy, 18, 19, 20 Dec. 2018, at the Museo di Storia Naturale di Verona

Proceedings

Edited by Celestino Soddu and Enrica Colabella

Generative Design Lab, Politecnico di Milano University, Italy

Argenia Association, Roma, Italy

The book contains the abstracts of papers, installations, artworks and live performances presented at XXI Generative Art conference in Verona, Italy.

The full texts are in the attached dvd.

**In the cover a sequence of sections of generated architectures made by Celestino Soddu
Interpreting the Italian tradition**

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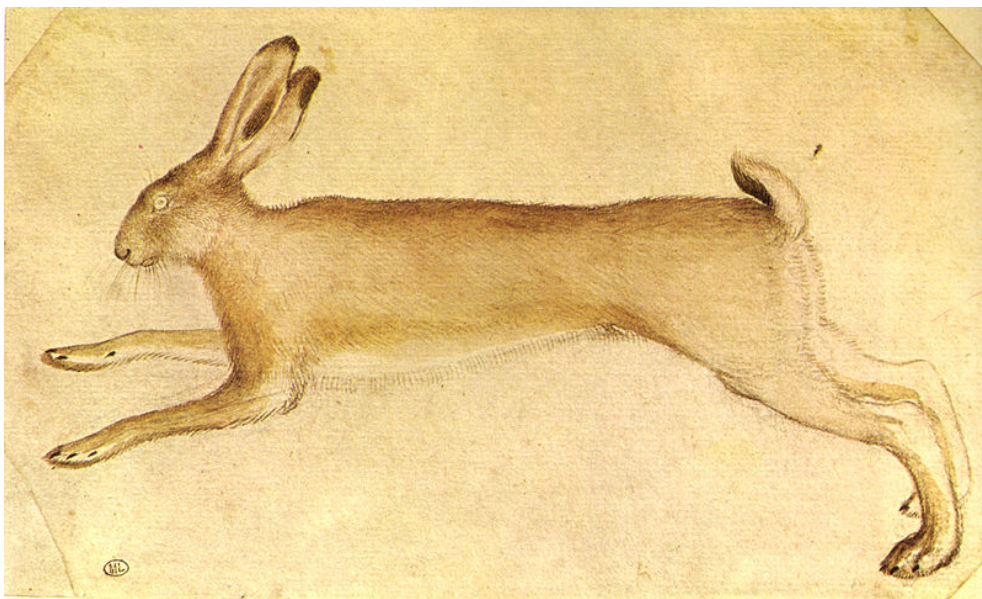
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Multiple Realities



Drawing by Piasanello, Verona, at Louvre museum

Generative Art Organicity

The similarity between Nature and Generative Art Process

Opening this XXI International Generative Art Conference we would like to thank the Museum of Natural History of Verona and in particular Director Francesca Rossi and the Library Dean Bruna Burato. They welcomed us this year in this wonderful city giving the opportunity of the experience to directly evaluate the similarity between Nature and Art.

Verona is a wonderful city full of Roman and Renaissance artworks and architecture and the unique Italian city of love.

So we can directly compare Generative Art experiences with the evolutionary history of Nature. Our hope is that this unique experience can generate, in all participants, new fields of investigation in their artworks.

A fantastic event gives us a great pleasure: Matteo Peraro e Davide Stupazzoni two workers of Melegatti company that produce the best Pandoro in Verona decided to preserve each day the lievito Madre (mother yeast) that represent the generative tradition of the product quality of their company. They worked each day for free instead of the company was closed for economic management problems. It's a great example of Italian workers for preserving tradition.

The generative formal logic of our peculiar making Art follows the steps of the Natural structure and process. Each generated event is a unique event in multiple variations strongly connected with an idea as genetic code.

The progressive moments of our creative process follow completely the construction and evolution of event species. Observing how, during time evolution, natural species changed preserving their identity and uniqueness, is an essential observation point of view for the generation of artificial species. This in imitation of the natural process of endless representation of the same natural codes.

Following this Nature similarity, we are able to consider two fundamental aspects of the generative process: the organicity and the ability to learn from experience.

Organicity is without any doubt one of the characteristics of generative artworks. From so many centuries human beings created artworks following the harmony of nature, gaining a progressive experience toward complexity.

This similarity between Nature and Art that was missed in the last century is, in our time, re-discovered for gaining a new harmonic configuration performing at the best the new digital technology.

We can identify this generative process as a new organic vision of Nature by creating non-linear systems connecting the whole and all its parts in a fragment of time. Our

main reference point is Renaissance where Piero della Francesca, Leonardo da Vinci and Michelangelo connected the complex harmony of Nature in their artworks. More, they have taught us that there is no Art without Science.

The ability to learn from life rises from our direct experience when we become able to connect our vision with reality in a unicum organicity. Even if we have not yet acquired the ability in using machine learning as happens in the most advanced AI systems, we can perform open processes in a generative way. This is totally different from the processes for gaining only contingent forms. The generative process needs an open mind able to reach the complex quality of our times where the question and result are more and more fast. So in Generative Art, Poetry, Music, Architecture, Design and Visual Painting work together in a new creative approach.

Generative Art is not only a technology. It is an approach to complexity able to use digital technologies but not to depend on them. The base of the generative approach is the vision of the future, by imagining a natural progression towards a possible where is not only the contingent result but also the progressive process. Our challenge is to set it in motion and keep it active at our best.

The GA creative process can always be reactivated also in the future, giving more and more surprising and unique results. We can remind to our creative life reviving our creative past. This process is an artificial mirror of our human creativity as artists. We can imagine that in the next century people might generate artworks following our past poetic vision.

Celestino Soddu and Enrica Colabella
Chairs of Generative Art conferences

Verona, 18 of December 2018



Drawing by Pisanello, Verona, at Louvre Museum