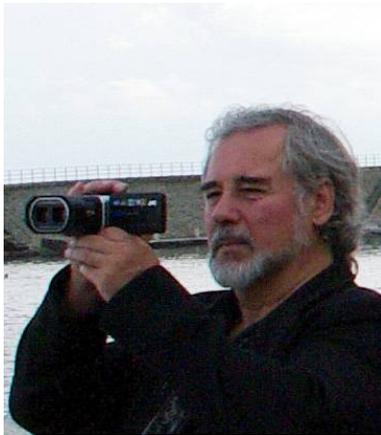


Patrick SAINT-JEAN (France)



- > Associate Professor on Digital Design of ENSC, Doctor of Biology (BME), Engineer of Computer-Electronic-Automatic, artist and writer, pioneer in the computer sciences, computer arts.
- > General Secretary of ARS MATHÉMATICA (arsmathematica.org).
- > Personal website : <http://patricksaint-jean.fr>
- > Professional website : <http://www.ens-cachan.fr/version-anglaise/>

Biography

Matters and Materials for Invention, Patrick Saint-Jean knows that younger in the end of 60's when he install his small laboratory of plastic-matters and synthetic rubber in the bathroom of its parents home. But he experiments others matters and materials than in chemical with painting, music (acoustic sounds and noises), architecture, biology (Robotics of Laboratory for the Cell-culture 1982, electronic and automatic (CEA,CNES), computer sciences, computer art (Holographic Art at Unesco, 1984, RobotPaint and RobotSculpt) and computer graphics. And for him Words and Concepts, as all matters and materials, are concrete-abstract-virtual, and matter-energy-information, done for experimenting and practicing and for defining his own philosophy-technosophy-virtuosophy, where 3D Printer is a way of the Digital Sculpture. After a mixed "arts and sciences" formation, he became Engineer of Superior School of Computer-Electronic-Automatic (ESIEA, Paris, 1975) and Doctor of Biology of the University Paris XIII (1989).

Beginning earlier with painting, and music at Conservatoire of Gobelins in Paris, he studied Formalized Music of Iannis Xenakis (1964-67), and designs a music computer instrument for him (UPIC, CNET,1974-78), after analog instruments and industrial design that he deposes Patents in France and USA (Electro-magnetic organ, Mechanical variable speed transmission for digital calculation, Industrial microwave paper device) and designs early (1993) new generation of amphitheaters with new digital technologies for immersion and interaction and for the Design of multimedia concept (PolyAgogic CyberSpace), with AI-engine base on his own mathematical model (Trans-combination and Pretopological Quantum Relational Texturologies), after developing this model in 70's for digital image analysis, in 80's for general organization and image 3D-synthesis and digital sculpture, and in 90's for Knowledge Shows integrating all new digital and web technologies with 3D-computer-vision.

From 1974, during 25 years, Patrick Saint-Jean was teacher of Computer-music, Visual-Art, Electronic-art, Computer-art, Digital-art, for Plastician Arts (Visual Arts), Applied Arts, Communication Arts and Aesthetics, at the University of Panthéon-Sorbonne in UFR Plastic-Arts and Sciences of the Art. He was also President of Paris ACM SIGGRAPH Professionnal and Student Chapter during 10 years as a militant of the Computer Sciences, Computers Arts, Computer Graphics, and is now General Secretary of the intentional association Ars Mathématique.

From 1990, Patrick Saint-Jean is a teacher-researcher, plastician artist Designer, Lecturer and Associate Professor at the Ecole Normale Supérieure (Cachan, Val de Marne, France) on Digital Design.

Lecture title and abstract :

Materials for the invention: a way to concretize the complex thought and give a new 3D visualization of the abstract and virtual significance of our Being and our World of Beings.

During his experience, Patrick Saint-Jean invents and designs new mathematic spaces connected to the classical one, but more expressive for human world, human sciences and complex thinking ; and his aesthetician reflexion finds ideas of its concepts into the authors of our century, like Dubuffet but also Deleuze, De Certeau (Walking in the city, The foreigner or union in the difference), Edouard Glissant (Philosophy of the relation), and Edgard Morin, thinker of the complexity which it notes in the "Esprit of the time" and defines its method of knowledge to translate the complexity of reality and to recognize the existence of the beings and to approach the mystery of the things through the Unity-Diversity meaning, who will make it try a reform of the thought whose work of Patrick Saint-Jean modestly takes part with his mathematical spaces in social sciences and the arts. He exposes and speaks about its different steps of its art of digital sculpture and complex thinking (from class and order to successive proximities and resualism with cybericity), who are matter and materials of his Inventions through his numerical sculptures and 3D Printings, exploring artificial intelligence of heads-printer and Micro-Robotics to define new structures.