



Prof. Dr. Rudolf M. Fuchslin

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## Position

- Professor of Applied Complex Systems Science at Zurich University of Applied Sciences
- Head of Group for Applied Complex Systems Science (ACSS) at the Institute for Applied Mathematics and Physics (IAMP), School of Engineering (SoE), Zurich University of Applied Sciences (ZHAW), Winterthur, Switzerland.
- Co – director of European Centre for Living Technology, Venice, Italy.
- President of the foundation board of the Naturama foundation (Aarau, Switzerland).

## Research Interests

- Modeling of complex systems
- Mathematical engineering
- Evolutionary methods
- Biomimetic systems
- Modeling of socio – technical systems
- Applied statistical physics
- Robotics
- Applied Morphological Computing (prosthetics, living technology, systems medicine)
- Application of quantum technologies to engineering
- Topics at the interface between physics, biology, sociology and computer science

## Short Bio

Ruedi Fuchslin studied theoretical physics at ETH in Zürich, where he graduated with a thesis on incompressible quantum systems at the chair of Prof. Jürg Fröhlich. He then went to the University of Zurich, where he wrote his PhD thesis in the newly established group for computer assisted physics of Prof. Peter Fritz Meier in the field of superconductivity. During this time, he had the opportunity to act together with Meier as a consultant for the Institute for Forensic Medicine. This experience fostered his interest in biological and medical problems. He got a position as post doc in Prof. John McCaskill's group for Biomolecular Information Processing where he investigated molecular ecologies, evolutionary processes, dynamical processes in cells and general questions at the interface between theoretical biology and engineering. In 2007, he got the opportunity to spend half a year at the ECLT, where he studied the scaling

behavior of dissipative particle dynamics. He then returned to the University of Zurich, where he got a position in Prof. Rolf Pfeifer's Artificial Intelligence Lab. Presently, he holds a position as professor of applied complex systems science and is heading the group for Applied Complex System Science at the Institute for Applied Mathematics and Physics at the School of Engineering at the Zurich University of Applied Sciences. In addition, he is co – director of the European Centre for Living Technology in Venice, Italy and president of the Naturama foundation. Besides research, he has interested in questions relating to the interplay between natural sciences and the humanities.