

# **Wolfgang Banzhaf**

**Entomologist and Osteopathic Medical Specialist at Michigan State University**

East Lansing, MI, US

Expert in genetic programming and evolutionary computation

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## **Description**

Wolfgang Banzhaf is the John R. Koza Chair for Genetic Programming in the Department of Computer Science and Engineering at Michigan State University. Previously, he was a university research professor in the Department of Computer Science Memorial University of Newfoundland. He served as head of department there from 2003 to 2009 and from 2012 to 2016.

Prof. Banzhaf received a "Diplom in Physik" degree in Physics (equivalent to a M.Sc.) from the Ludwig-Maximilians-University in Munich. He received his Dr.rer.nat (PhD) from the Department of Physics of the Technische Hochschule Karlsruhe, now Karlsruhe Institute of Technology (KIT). Prof. Banzhaf was postdoctoral research associate at the 1. Institute of Theoretical Physics of the University of Stuttgart, Visiting and Senior Researcher at the Central Research Lab, now the Advanced Technology R&D Center of Mitsubishi Electric Corporation in Japan and at Mitsubishi Electric Research Labs (MERL) in Cambridge, MA, USA. From 1993 to 2003 he was Associate Professor for Applied Computer Science in the Department of Computer Science of the Technical University of Dortmund.

Prof. Banzhaf's research interests are in the field of bio-inspired computing, notably evolutionary computation and complex adaptive systems. Studies of self-organization and the field of Artificial Life are also of very much interest to him. Recently he has become more involved with network research as it applies to natural and man-made systems.

Prof. Banzhaf is a Senior Fellow of the former International Society for Genetic and Evolutionary Computation (ISGEC) and has received the EvoStar Award for Outstanding Achievements in Evolutionary Computation in Europe. In 2010 he has been appointed University Research Professor at Memorial University for sustained contributions to research, the highest honour Memorial University bestows on an academic.

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## **Industry Expertise**

Education/Learning, Computer Software, Research, Biotechnology

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## **Topics**

Computer Science, Evolutionary Computation, Machine Learning, Algorithms, Theoretical Physics, Artificial Life

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## **Affiliations**

Executive Board of the International Society for Artificial Life (ISAL)

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## **Education**

**The Technische Hochschule Karlsruhe (now Karlsruhe Institute of Technology [KIT])**  
Dr.rer.nat (Ph.D.) Physics

**Ludwig-Maximilians-University**  
M.S. Physics

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## **Accomplishments**

**Outstanding Achievements in Evolutionary Computation in Europe**  
From EvoStar Awards

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