

## Candidate for Executive Committee

Juergen Branke  
University of Warwick, Coventry, United Kingdom

### **BIOGRAPHY**

#### Academic Background:

Habilitation, University of Karlsruhe, Germany, 2006, Nature-inspired Design and Optimization of Complex Systems.

#### Professional Experience:

Associate Professor, University of Warwick, Coventry, UK, 2009 – Present;  
Assistant Professor (akad. Rat), University of Karlsruhe, Karlsruhe, Germany, 2001 – 2008;  
Scientist, Icosystem Inc., Paris, France, 2001 – 2001.

#### Professional Interest:

Nature-inspired optimization; Optimization in the presence of uncertainty; Multiobjective optimization; Simulation-based optimization; Operations management.

#### ACM Activities:

GECCO GA track co-chair, 2007;  
GECCO reviewer, 1999 – Present.

#### Membership and Offices in Related Organizations:

Member, IEEE Computer Society, 1999 – Present;  
Council of authors, International Society of Genetic and Evolutionary Computation, 2000 – 2004.

#### Awards Received:

Carl-Adam-Petri Research Award, University of Karlsruhe, 2005; Best paper award for GECCO GA track, 2003.

### **STATEMENT**

Genetic and evolutionary computation has been very successful in recent years, and is now a widely used technique in an amazing variety of applications. The number of publications in the field is exploding. While this is exciting, as the field is maturing, there is also a need to develop new qualities.

As member of the SIGEVO executive board, I would work towards the following goals:

- More analysis: Many papers simply propose yet another variant of the basic algorithm.
- While diversity and new ideas are very important, the focus should shift to proper analysis, either theoretically or via statistically sound experiments. SIGEVO should foster such studies, e.g., by defining and propagating appropriate techniques and benchmarks.
- More collaboration with other fields: Although we are solving similar problems as, e.g., the operations research and artificial intelligence communities, the exchange of ideas with these communities could be increased, e.g., by encouraging special sessions of GEC at typical conferences of other communities. (A good example where this succeeded is the collaboration between EMO and "classical" multiobjective optimization).
- Closer (and more visible) collaboration with industry: For the widespread recognition of GEC, we should particularly welcome the publication of successful industrial applications.