Seminar schedule

Monday, 21 October 2019 – Lecture Hall Karlsruhe

- 09:00	Breakfast
09:00 - 09:15	Welcome and seminar opening
09:15 - 10:00	Participant introduction I
10:00 - 10:30	Coffee break
10:30 - 11:00	Carsten Witt on What's Hot in EA Theory I
11:00 - 11:20	Benjamin Doerr on Genetic Drift in EDAs
11:20 - 12:00	Participant introduction II
12:15 - 13:30	Lunch
13:30 - 14:30	Time for individual discussions
14:30 - 15:00	Luc Pronzato on Dynamical Search
15:00 - 15:20	Participant introduction III
15:20 - 15:30	Short announcement re. group work
15:30 - 16:00	Cake
16:00 - 16:15	Organization of group work
16:15 - 17:15	Breakout sessions
	Teaching
	Measuring performance in an invariant way for comparison
17:15 - 17:45	Participant introduction IV
17:45 - 18:00	Debrief from the breakout sessions
18:00 - 19:00	Dinner
19:30 -	Opening of the art exhibit "Lost Places" by the German artist Win-
	fried Groke (in the new building, next to the reception, more informa-
	tion)
19:30 –	Individual discussions (and sleep ;-))

Seminar schedule

Tuesday, 22 October 2019 – Lecture Hall Karlsruhe

00.00	D. If
- 09:00	Breakfast Laborator Description (1)
09:00 - 09:20	Johannes Lengler on Dynamic linear functions
09:20 - 09:40	Vida Vukašinović on Analysis of artificial genetic representations
	with neutrality
09:40 - 10:00	Olivier Teytaud on Single-iteration evolutionary computation, also
	known as fully parallel derivative-free optimization
10:00 - 10:30	Coffee break
10:30 - 11:00	Pietro Oliveto on What's hot in EA theory II
11:00 - 11:30	Vivek Borkar on Overview of stochastic approximation and related
	schemes
11:30 - 12:00	Youhei Akimoto on Expected runtime bounds for $(1+1)$ -ES
12:15 - 13:30	Lunch
13:30 - 14:00	Time for individual discussions
14:00 - 14:30	Organization of group work
14:30 - 15:30	Breakout sessions
	Neutral representations
	IGO/Stochastic optimization
	Multi-objective optimization
	Dynamic linear functions
15:30 - 16:00	Cake
16:00 - 16:10	Flash talk: Günter Rudolph on Runtime in integer space under
	multiple objectives
16:10 - 17:30	Breakout sessions
	Drift analysis
	Benchmarking and competitions
17:30 - 18:00	Debrief and announcements
18:00 - 19:00	Dinner
19:00 -	Individual discussions (and sleep ;-))

Seminar schedule

Wednesday, 23 October 2019 – Lecture Hall Karlsruhe

- 09:00	Breakfast
09:00 - 09:20	Patrick Spettel on Analysis of evolution strategies applied to a more
	general conically constrained problem
09:20 - 09:40	Anne Auger on A unified invariance formalism for discrete and con-
	$tinuous\ optimization$
09:40 - 10:00	Niko Hansen on A (general) definition of invariance
10:00 - 10:30	Coffee break
10:30 - 10:50	Anatoly Zhigljavsky on Stochastic global optimization (SGO)
10:50 - 11:10	Martin Krejca on The UMDA on LeadingOnes revisited
11:10 - 11:30	Dirk Sudholt on Runtime analysis of diversity mechanisms – recent
	results
11:30 - 12:00	Organization of group work
12:15 - 13:30	Lunch
13:30 - 15:30	Hike
15:30 - 16:00	Cake
16:00 - 18:00	Breakout session
	Algorithm configuration and selection
18:00 - 19:00	Dinner
19:00 -	Individual discussions (and sleep ;-))

Seminar schedule

Thursday, 24 October 2019 – Lecture Hall Karlsruhe

00.00	
- 09:00	Breakfast
09:00 - 09:20	Francisco Chicano on Dynastic potential crossover
09:20 - 09:40	Denis Antipov on Precise analysis for plateaus
09:40 - 10:00	Hans-Georg Beyer on Evolution strategies are NOT gradient fol-
	lowers
10:00 - 10:10	Group picture (please make sure to be around!)
10:10 - 10:40	Coffee break
10:40 - 11:00	Maxim Buzdalov on Variations on the theme of the $(1 + (\lambda, \lambda))$ GA
11:00 - 11:20	Per Kristian Lehre on Runtime analysis of self-adaptive EAs
11:20 - 11:40	Anton Eremeev on On potential for transfer of results from theory
	of evolutionary algorithms to biology
11:40 - 12:00	Jon Rowe on Open questions relating to noisy OneMax
12:15 - 13:30	Lunch
13:30 - 14:30	Time for individual discussions
	In parallel: Discussion on benchmarking
14:30 - 15:30	Breakout sessions
	Permutation-based problems (Christine), room S104
	The purpose of theory research (Timo), room S106
	Benchmarking survey (Thomas Bartz-Beielstein), coffee room
	Invariance (Niko, Anne), initial meeting in plenary room
15:30 - 16:00	Cake
16:00 - 17:30	Breakout sessions
	Mixed-integer optimization (Thomas Bäck), coffee room
	Open problems (Benjamin and Frank), plenary room
	One-shot optimization (Olivier), room S003, close to the coffee room
17:30 - 18:00	Debrief from breakout sessions
18:00 - 19:00	Dinner
19:00 - 19:30	Jon Rowe on Work at the Alan Turing Institute on "The Data Sci-
	ence Revolution in Scientific Research"
19:30 - 20:30	Individual discussions
20:30 -	Wine & cheese party

Seminar schedule

Friday, 25 October 2019 – Lecture Hall Karlsruhe

- 09:00	Breakfast
09:20 - 09:40	Manuel López-Ibáñez on Automated algorithm configuration and
	selection for theoreticians
09:40 - 10:00	Andrew Sutton on On the linkage equilibria of weakly-selective
	steady- $state GAs$
10:00 - 10:10	Dirk Thierens on Optimal mixing evolutionary algorithms
10:10 - 10:30	Coffee break
10:30 - 10:40	Arina Buzdalova on Challenges of mutation rate control in $(1 + \lambda)$
	EA
10:40 - 11:00	Niko Hansen on Gradient descent and evolution strategies are almost
	the same
11:00 - 11:20	Alexandre Chotard on Adaptation of a sampling distribution for
	$Metropolis ext{-}Hastings$
11:20 - 12:00	Closing session, feedback, and goodbye
12:15 - 13:30	Lunch
13:30 -	Individual departures (please sign up for shuttles to the train station
	with the staff at the reception)