Curriculum Vitae

Dr. Ryoji Tanabe

Personal Details

Affiliation: Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency (ISAS/JAXA)
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Research Interests

- Computational Intelligence
- Evolutionary Computation
- Single/Multi-Objective Continuous Optimization

Education

March, 2016	Ph.D. degree in Science from The University of Tokyo
March, 2013	MS degree in Engineering from Sophia University
March, 2011	BS degree in Engineering from Sophia University

Work Experience

April 2014 $\sim$ March 2016 Research Fellow of Japan Society for the Promotion of Science (DC2)

April 2016 $\sim$	Postdoctoral researcher at Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency (ISAS/JAXA)

Awards

1. Winner of the IEEE CEC2014 Competition on Real-Parameter Single Objective Optimization
2. ACM GECCO Student Travel Award, 2014.
3. IEEE CIS Outstanding Student-Paper Travel Grant Award, 2014.
4. IEEE CIS Outstanding Student-Paper Travel Grant Award, 2013.

Professional Activities/Service

- Reviewer of Journals
  - IEEE Transactions on Evolutionary Computation
  - IEEE Transactions on Cybernetics
  - IEEE Transactions on Fuzzy Systems
  - IEEE Access
  - Swarm and Evolutionary Computation
  - Memetic Computing
  - Applied Soft Computing
  - Information Processing Letters
- Conference Program Committee member
  - GECCO: 2016, 2017
  - CEC: 2014, 2016

Publication

Peer Reviewed Conference Papers

1. Ryoji Tanabe and Akira Oyama:
The Impact of Population Size, Number of Children, and Number of Reference Points on The Performance of NSGA-III,
Proc. Evolutionary Multi-Criterion Optimization (**EMO-2017**), Münster, March, 2017 (accepted)

2. Ryoji Tanabe and Alex Fukunaga:
How Far Are We From an Optimal, Adaptive DE?,
Proc. Parallel Problem Solving from Nature (**PPSN-2016**), pp. 145-155, Edinburgh, September, 2016

3. Ryoji Tanabe:
A Note on Multi-Funnel Functions for Expensive Optimization Scenario,
Proc. Genetic and Evolutionary Computation Conference (**GECCO-2015**, poster), pp. 1493-1494, Madrid, July, 2015

4. Ryoji Tanabe and Alex Fukunaga:
Tuning Differential Evolution for Cheap, Medium, and Expensive Computational Budgets,
Proc. IEEE Congress on Evolutionary Computation (**CEC-2015**), pp. 2018-2025, Sendai, May, 2015

5. Claus de Castro Aranha, Ryoji Tanabe, Romain Chassagne, Alex Fukunaga:
Optimization of Oil Reservoir Models Using Tuned Evolutionary Algorithms and Adaptive Differential Evolution,
Proc. IEEE Congress on Evolutionary Computation (**CEC-2015**), pp. 877-884, Sendai, May, 2015

6. Ryoji Tanabe and Alex Fukunaga:
Reevaluating Exponential Crossover in Differential Evolution,
Proc. Parallel Problem Solving from Nature (**PPSN-2014**), pp. 201-210, Ljubljana, September, 2014

7. Ryoji Tanabe and Alex Fukunaga:
On the Pathological Behavior of Adaptive Differential Evolution on Hybrid Objective Functions,
Proc. ACM Genetic and Evolutionary Computation Conference (**GECCO-2014**), pp. 1335-1342, Vancouver, July, 2014

8. Ryoji Tanabe and Alex Fukunaga:
Improving the Search Performance of SHADE Using Linear Population Size Reduction,
Proc. IEEE Congress on Evolutionary Computation (**CEC-2014**), pp. 1658-1665, Beijing, July, 2014

9. Ryoji Tanabe and Alex Fukunaga:
Evaluation of a Randomized Parameter Setting Strategy for Island-Model Evolutionary Algorithms,
Proc. IEEE Congress on Evolutionary Computation (**CEC-2013**), pp. 1263-1270, Cancun, June, 2013

10. Ryoji Tanabe and Alex Fukunaga:
Success-History Based Parameter Adaptation for Differential Evolution,
Proc. IEEE Congress on Evolutionary Computation (**CEC-2013**), pp. 71-78, Cancun, June, 2013

11. Ryoji Tanabe and Alex Fukunaga:
Evaluating the performance of SHADE on CEC 2013 benchmark problems,
Proc. IEEE Congress on Evolutionary Computation (**CEC-2013**), pp. 1952-1959, Cancun, June, 2013.