## Parallel Computations for Various Scalarization Schemes in Multicriteria Optimization Problems

Victor Gergel and Evgeny Kozinov

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on the paper. In the experimental results, they fail the optimization problems by the number of	on the paper. In the experimental results, they fail	the optimization problems by the number of
to show this. executed iterations but not by the processor time.		
For 100 multi-criteria problem, how are the In Section 5 the sentence is added "The values of		

coefficients alpha selected?	the coefficient α are uniformly distributed
coefficients aipha selected.	within the interval [0,1]."
In the experimental section hasides the speedum	See the sentence added for the first remark
In the experimental section, besides the speedup results, a bit more detail is needed, such as	See the sentence added for the first remark
quantifying the parameters.	
	IEW 3
The results are encouraging, but it would be useful	The title of Table 3 are replaced by "Overall
to discuss them more thoroughly. Especially	reduction of executed iterations provided by using
speedups of 100 times on 16 cores sound strange	the developed approach for solving a MCO
and need wider explanation. Surely, part of this	problem".
speedup is due to the enhancement of the algorithm	Also the last paragraph has been replaced by "
instead of the parallelization and then it would be	The efficiency of the developed approach becomes
better to use the fastest sequential version in the	more evident when the obtained reduction of
computation of the speedup.	executed optimization iterations is shown in
computation of the speedap.	comparison with the initial sequential algorithm,
	which does not use the search information (Table
	3). As follows from the results of performed
	experiments, the overall reduction when using 16
	computation cores always exceeded 100."
Some kind of comparison with other non-convex	As a matter of fact, non-convex optimization is not
multi-objective optimization algorithms would be	equivalent with Lipschezian global optimization.
useful, e.g. presented in [4]. Or at least a discussion	The following sentences are added in Section 5 "In
about them showing that such algorithms exist.	[9], the proposed approach using the min-max
	scalarization scheme was compared with the well-
	known multicriteria optimization methods:
	• The Monte-Carlo (MC) method, where the trial
	points are selected within the search domain D
	randomly and uniformly,
	The genetic algorithm SEMO from the PISA
	library,
	• The non-uniform coverage (NUC) method,
	• The bi-objective Lipschitz optimization (BLO)
	method.
	In this paper, the efficiency of the proposed
	approach is compared with other scalarization
	schemes: the method of successive concessions and
	the reference point method."