Assignment #4

Lever oppgave på nytt

Leveres innen 31. mars innen 23.59 **Poeng** 0 **Må leveres** en filopplasting

In this assignment you should define new operators!

- Use the framework of simulated annealing that you used in assignment#3
- Define and use your own operators instead of the previous three operators that you used in assignment #3
- You should define at least 3 operators
- You need to show creativeness in designing the new operators
- Problem dependent operators (that use the information that are given as input) are highly recommended!
- You should explain (in short) to support your operators. Explain also if they help in intensification or diversification. Put the explanation after the tables and best solutions
- You should fill in the below table for each instance. The rows for Random Search, Local Search, Simulated Annealing (old) should be filled exactly from assignment#3.
- Report the best solutions you get from the simulated annealing with the new operators. In the report put 5 tables first and then 5 best solutions from new Simulated Annealing and then the explanation of the operators.
- Like assignment #3, run 10 times for each of the 5 instances. (Note: report the time in seconds)
- The quality and robustness of the operators are more important than their running time but do not let that the sum of the average running times exceeds 600 seconds
- Submit a PDF file. Name of the file should be JUST your FULL NAME
- Submit through assignment submission at mitt.uib (NOT BY EMAIL)
- Please read all the points carefully and follow the mentioned format.
- I will be available via Skype and Email if there is anything you want to discuss

Instance name (e.g. Call_7_Vehicle_3)				
	Average objective	Best objective	Improvement (%)	Average Running time (seconds)
Random Search				
Local Search				
Simulated Annealing (old)				
Simulated Annealing (with new operators)				