

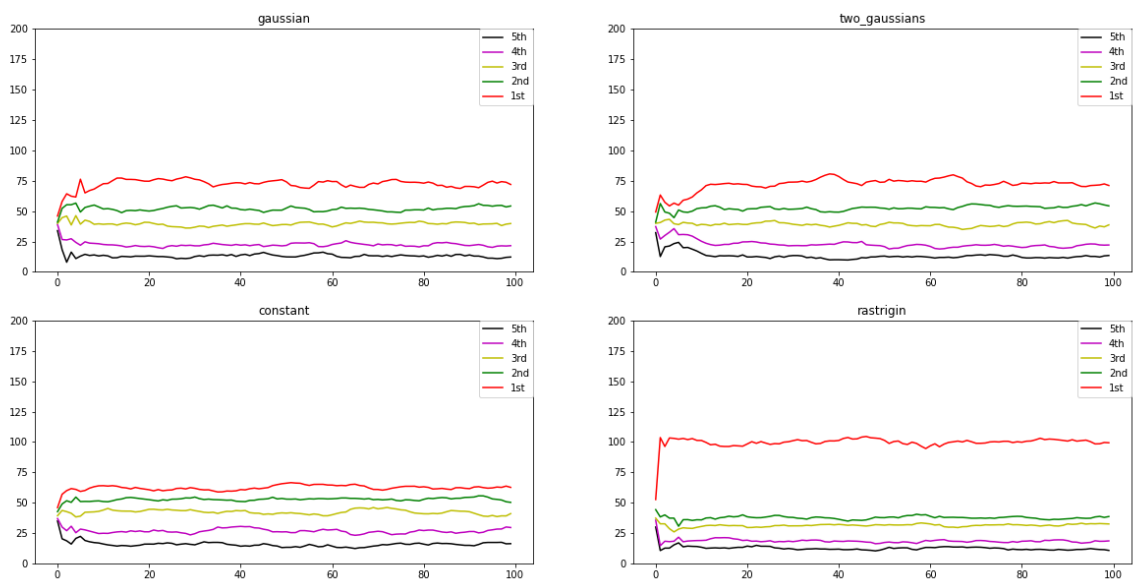
Analiza skupień w populacjach generowanych klasycznym algorytmem ewolucyjnym - wyniki dla pięciu klastrów

Piotr Bródka, Jacek Myna

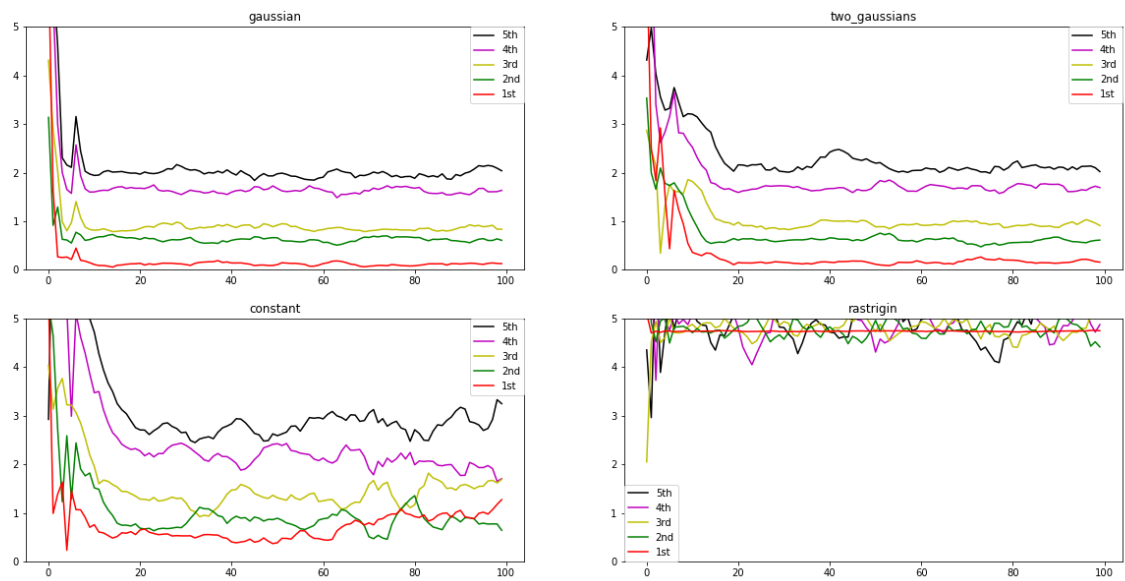
June 17, 2020

1 Porównanie wykresów dynamiki dla wszystkich funkcji dla 1d

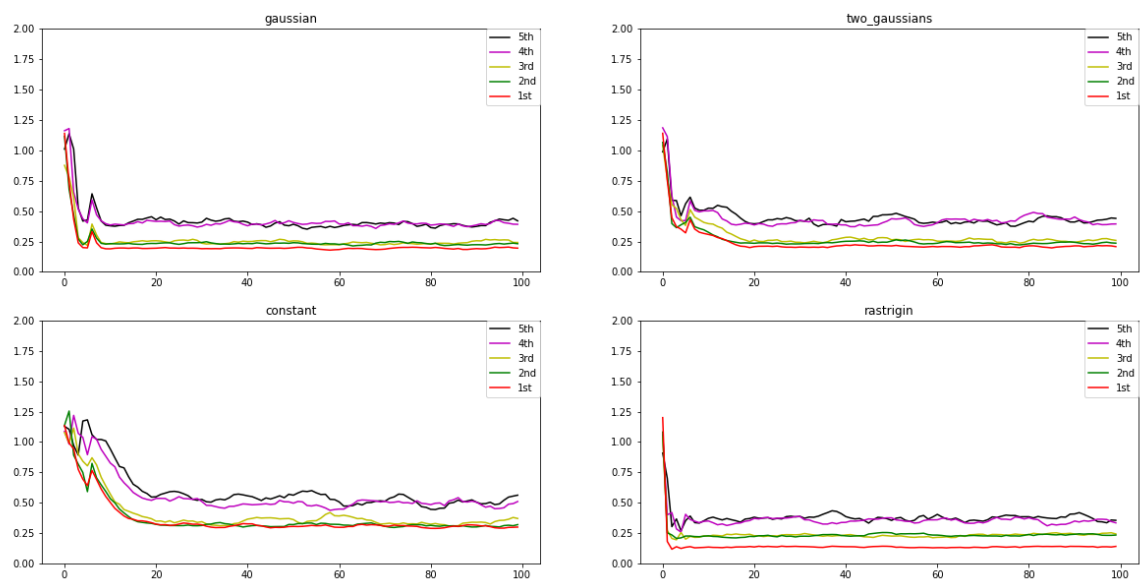
Liczność klastrów:



Odległość klastrów od minimów funkcji:

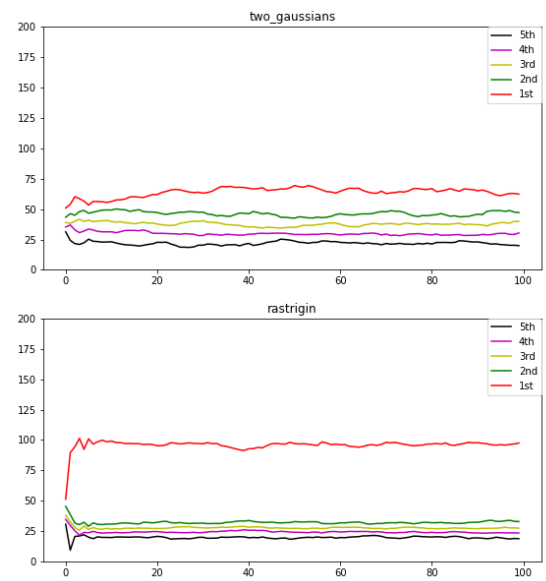
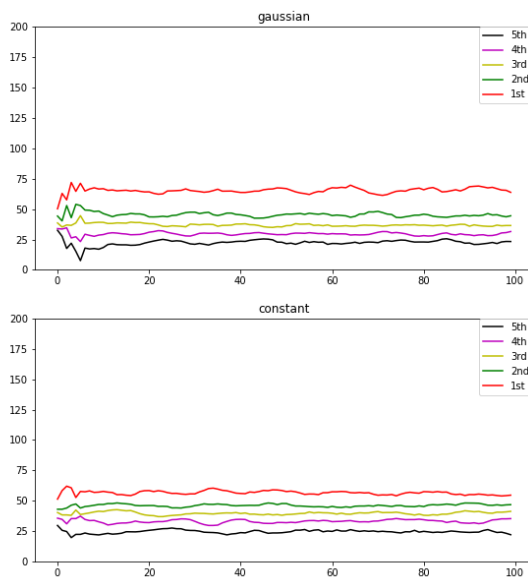


Odchylenie standardowe w klastrach:

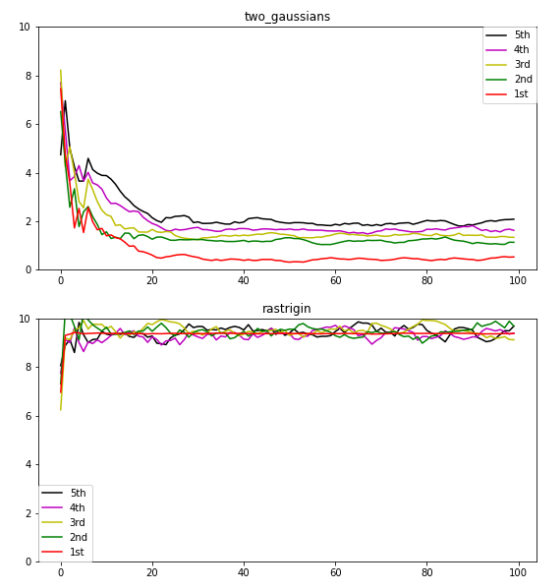
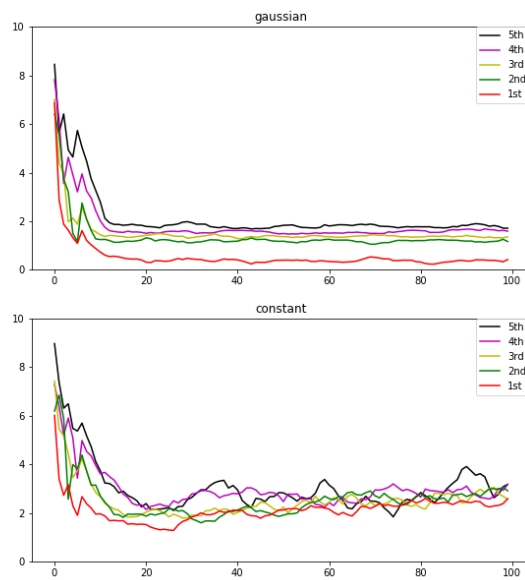


2 Porównanie wykresów dynamiki dla wszystkich funkcji dla 2d

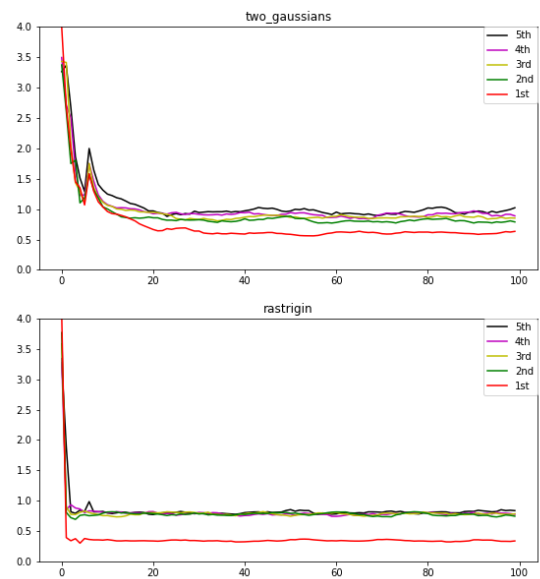
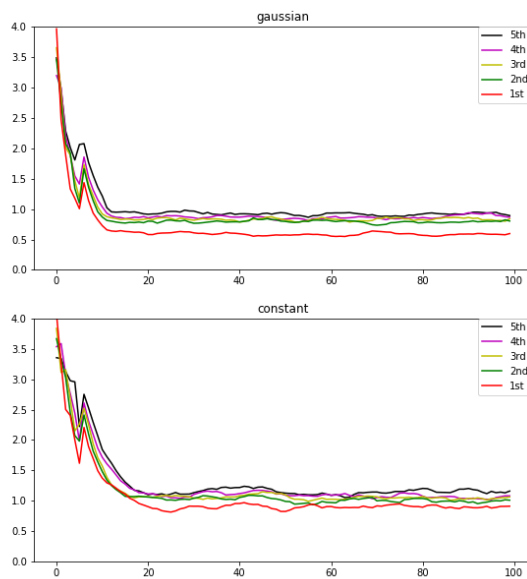
Liczność klastrów:



Odległość klastrow od minimów funkcji:



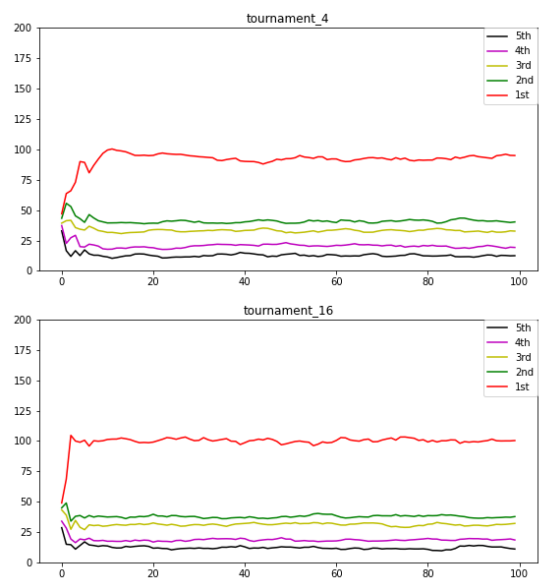
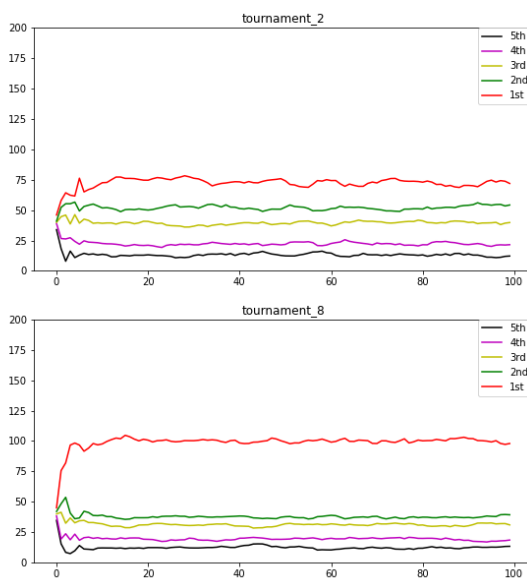
Odchylenie standardowe w klastrach:



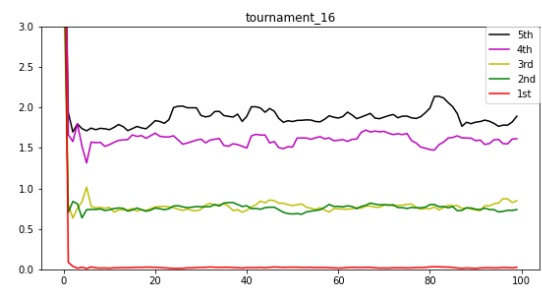
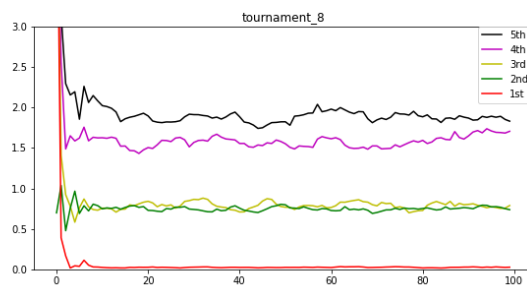
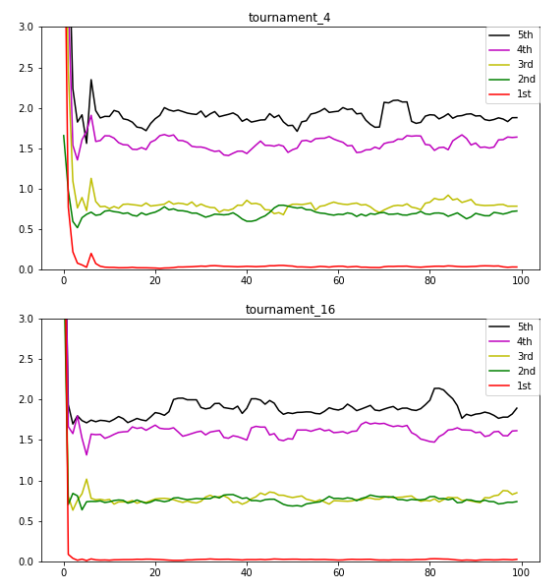
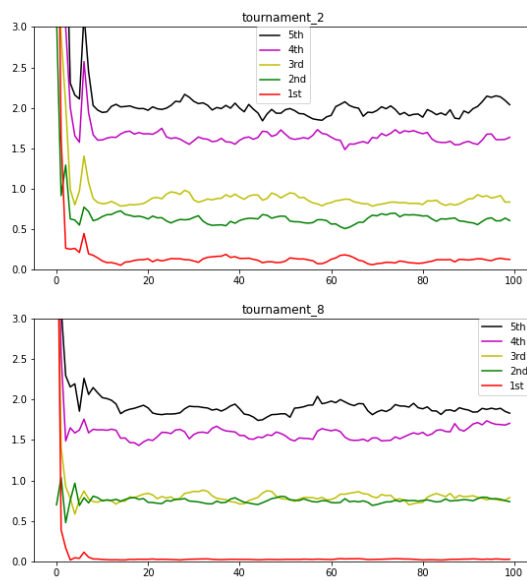
3 Porównanie wykresów dynamiki ze względu na wielkość turnieju

3.1 Funkcja Gaussa

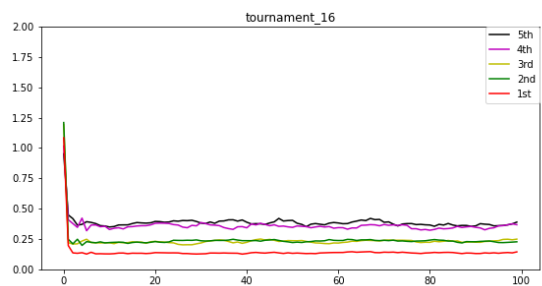
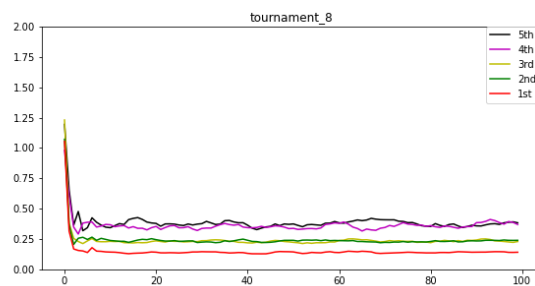
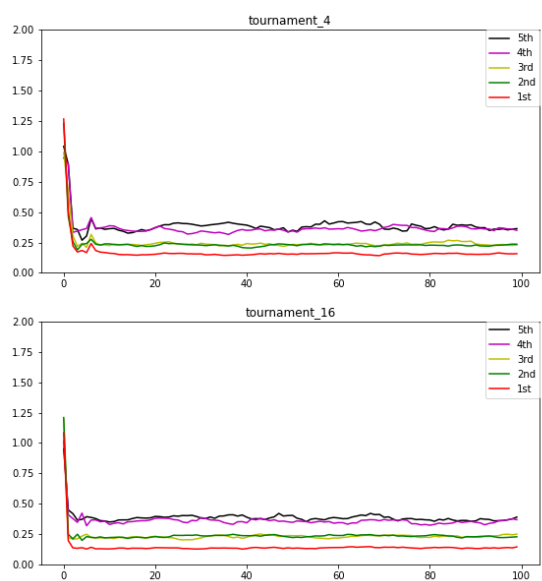
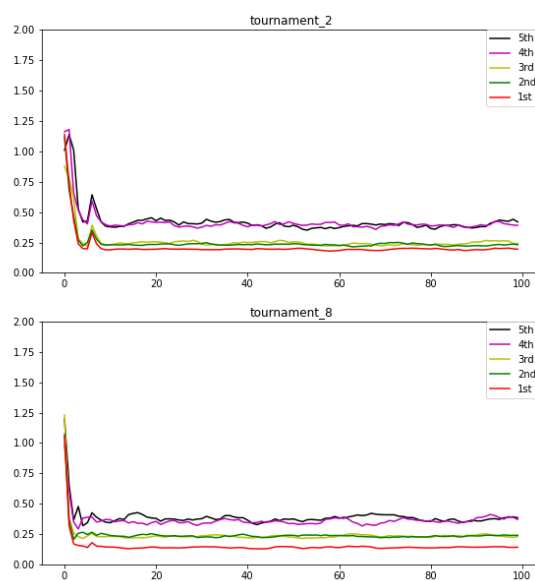
Liczność klastrow:



Odległość klastrow od minimów funkcji:

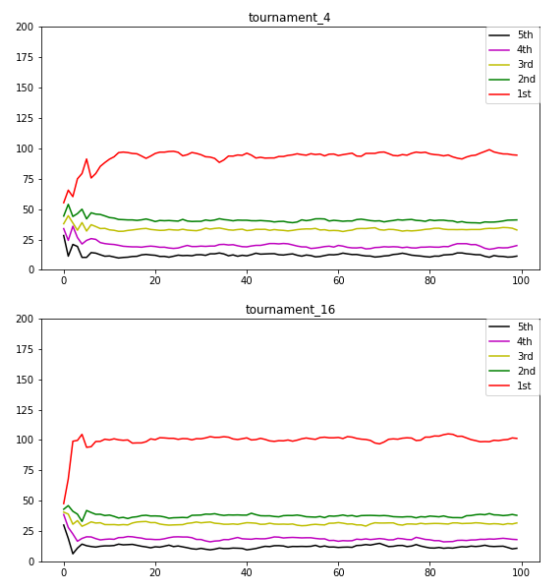
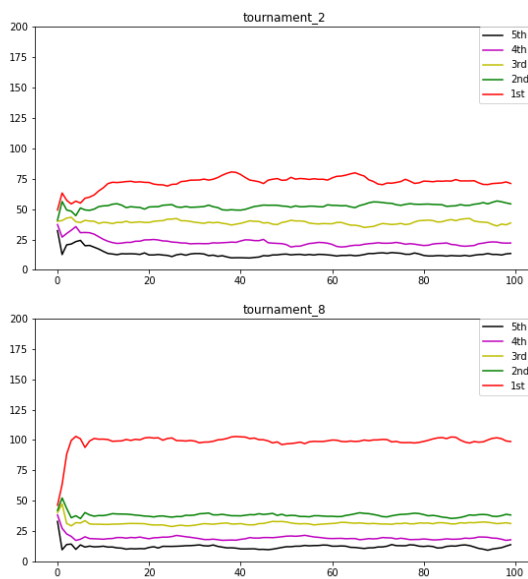


Odchylenie standardowe w klastrach:

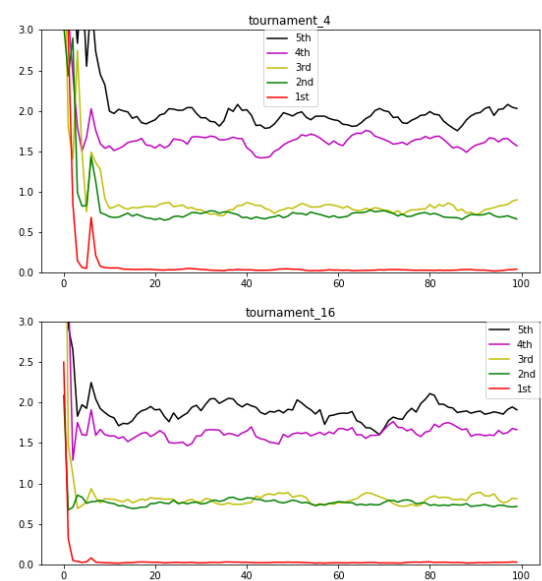
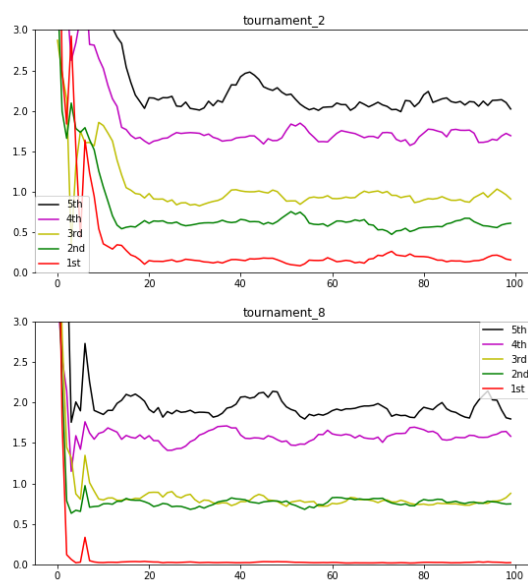


3.2 Suma dwóch funkcji Gaussa

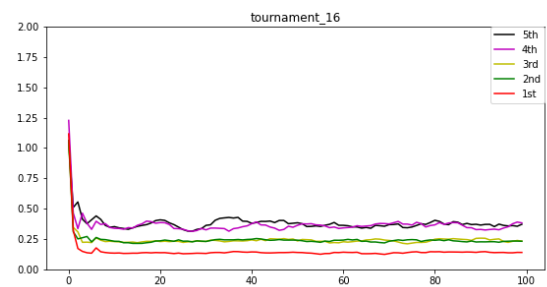
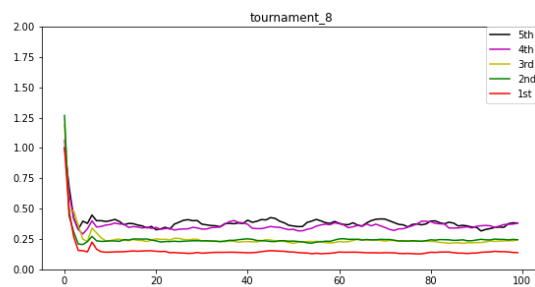
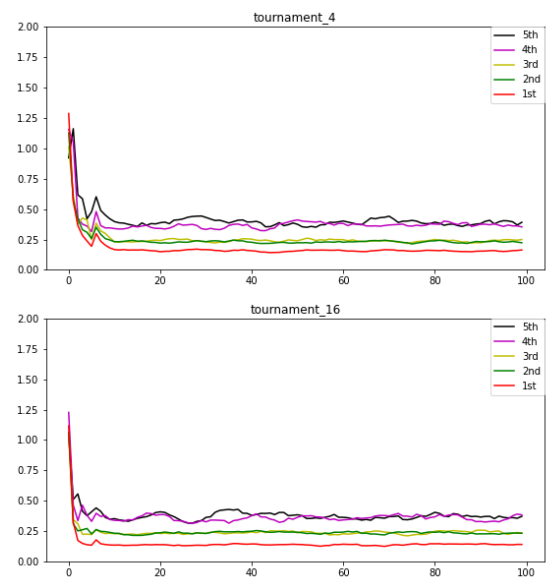
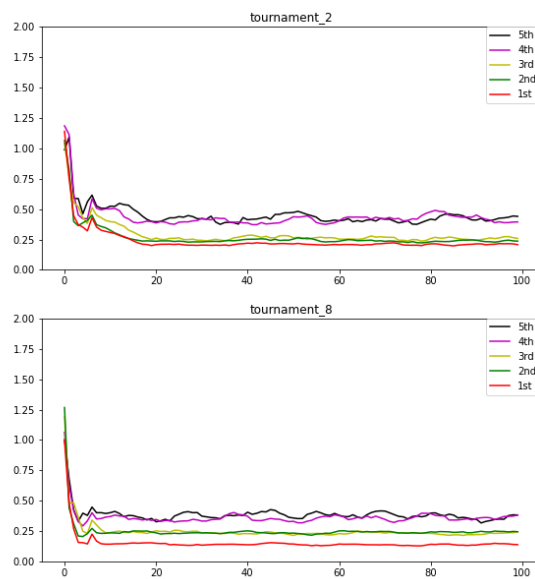
Liczność klastrów:



Odległość klastrow od minimów funkcji:

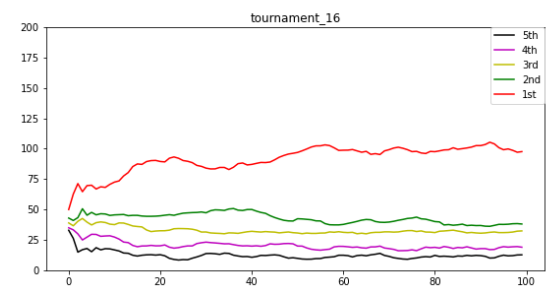
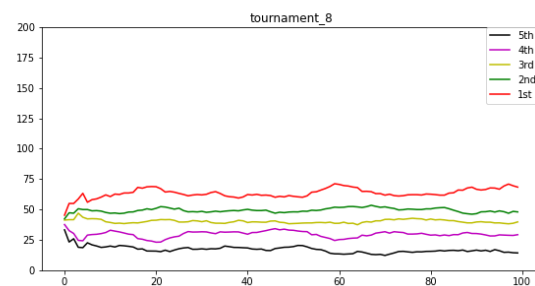
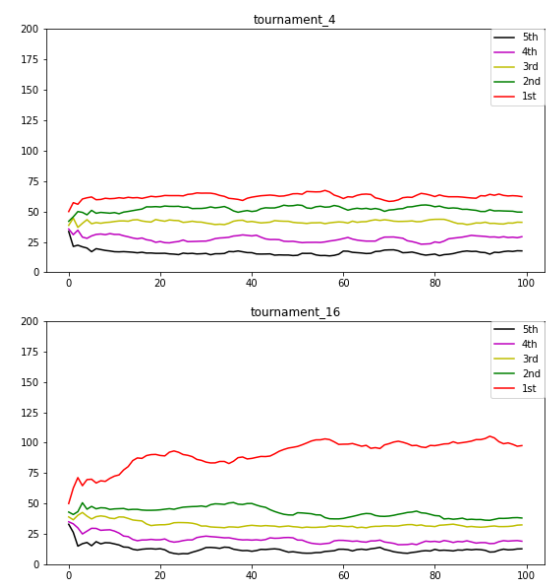
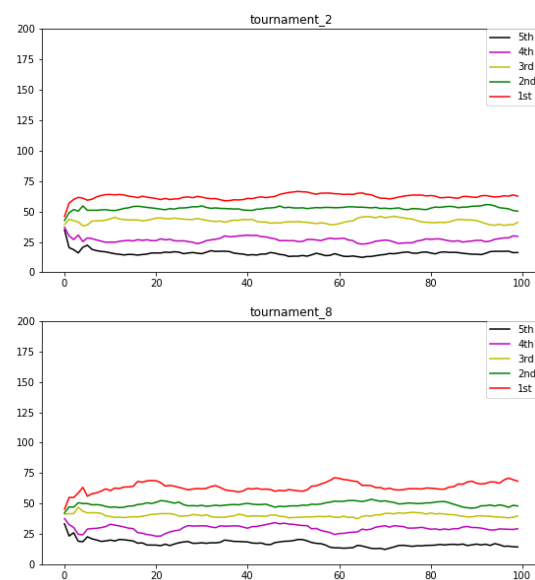


Odchylenie standardowe w klastrach:

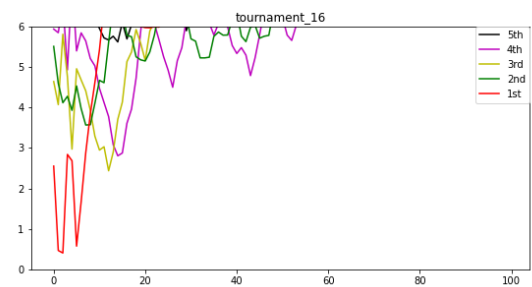
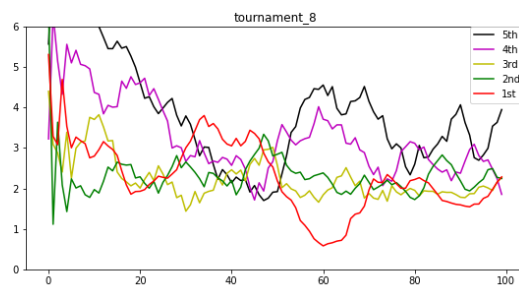
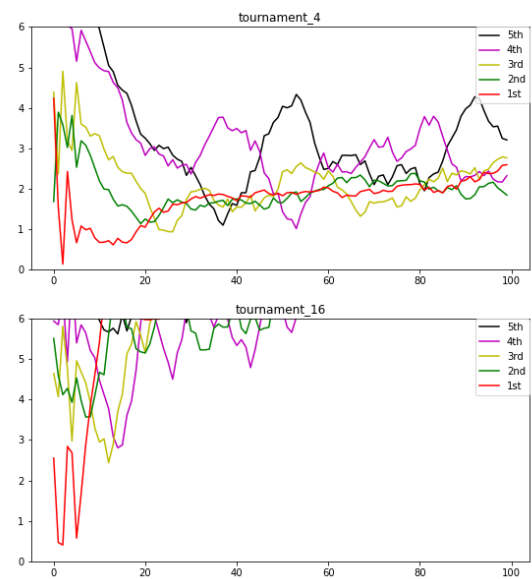
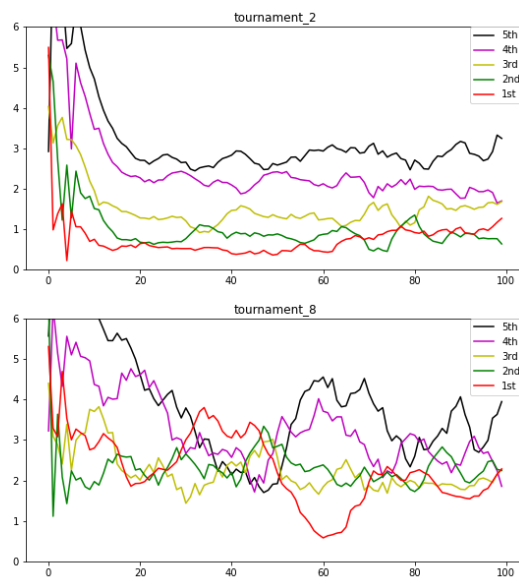


3.3 Funkcja stała

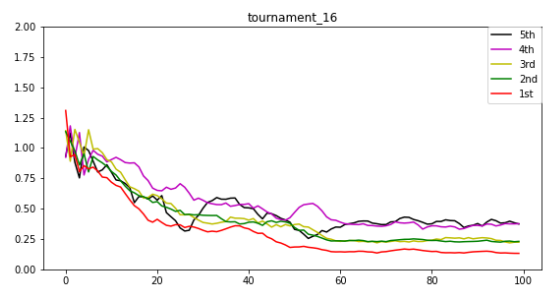
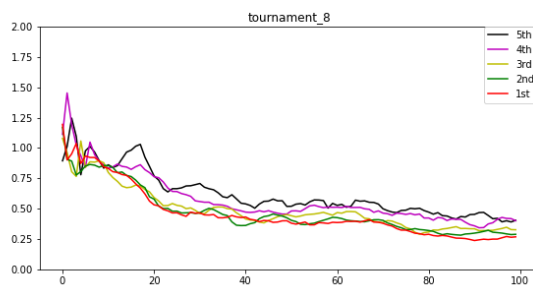
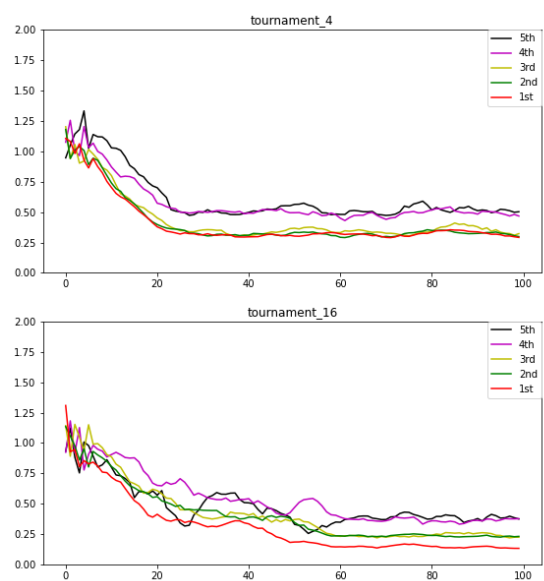
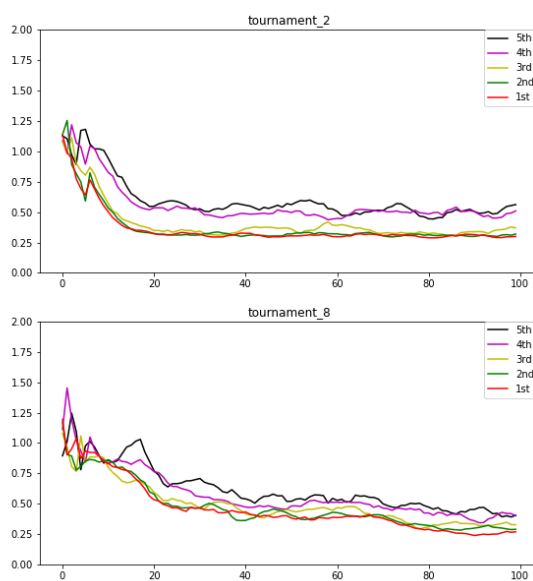
Liczność klastrow:



Odległość klastrow od minimów funkcji:

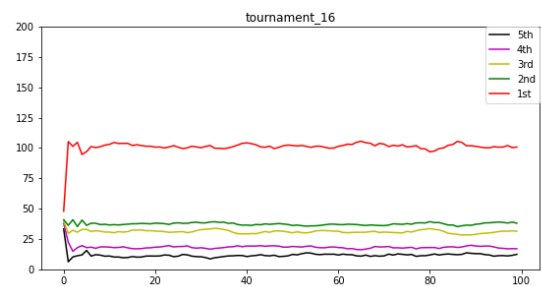
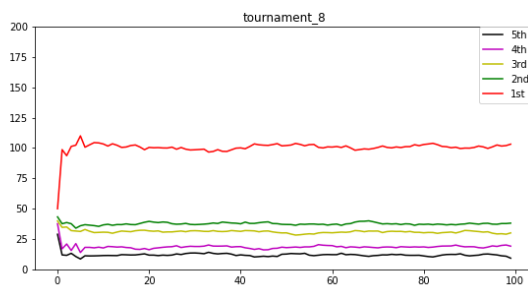
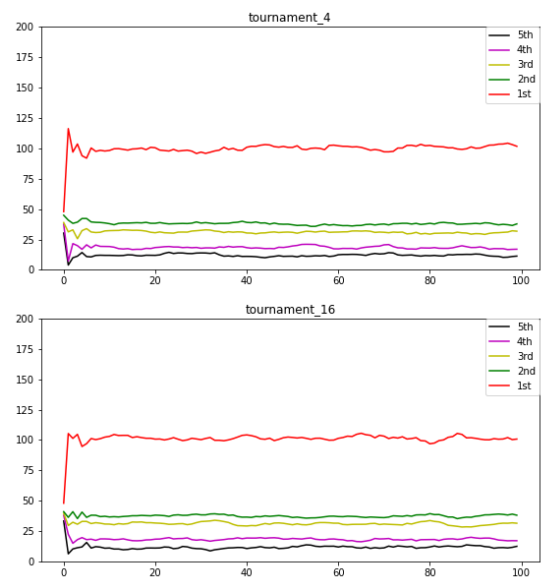
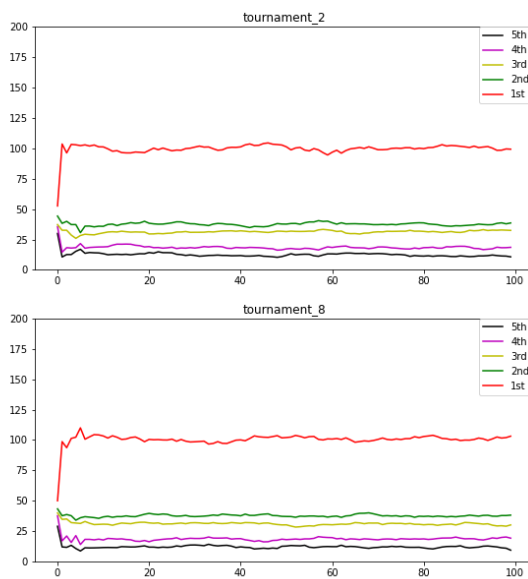


Odchylenie standardowe w klastrach:

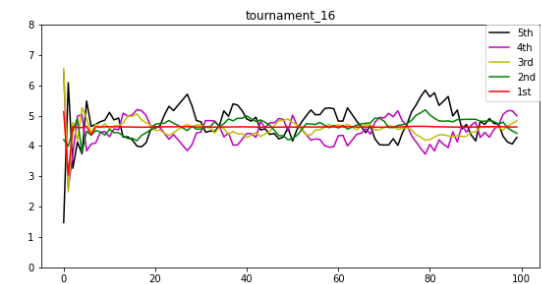
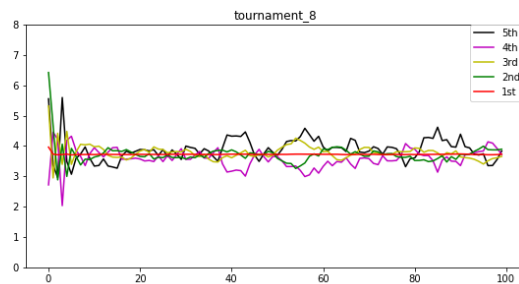
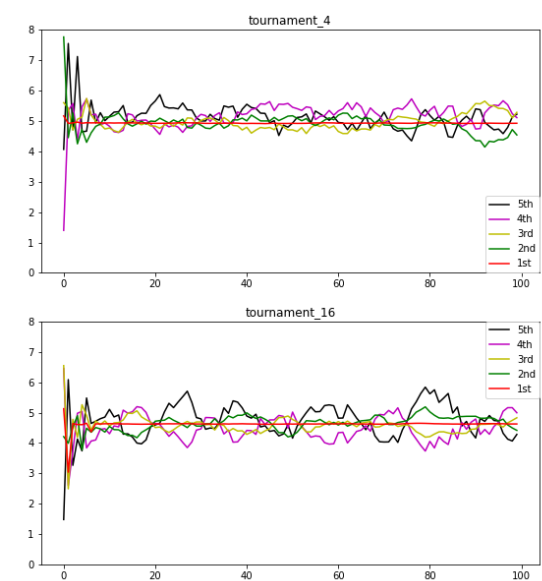
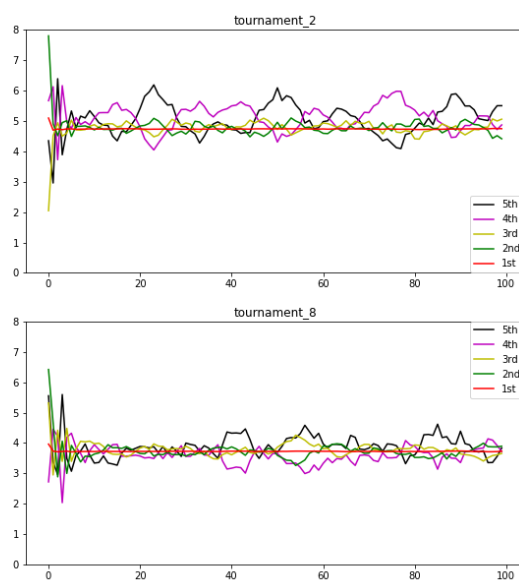


3.4 Funkcja Rastrigina

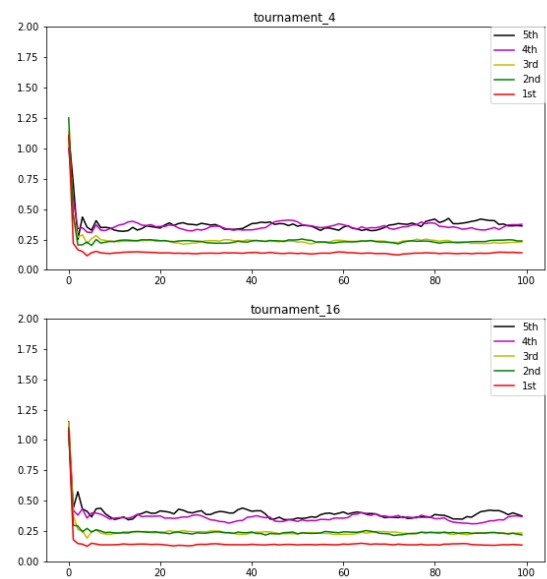
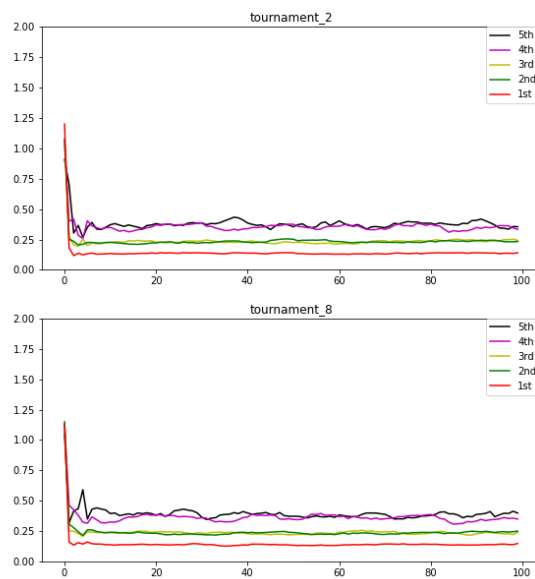
Liczność klastrów:



Odległość klastrow od minimów funkcji:



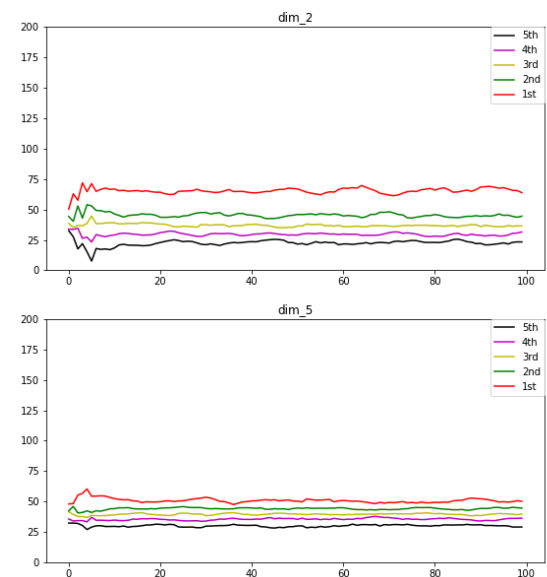
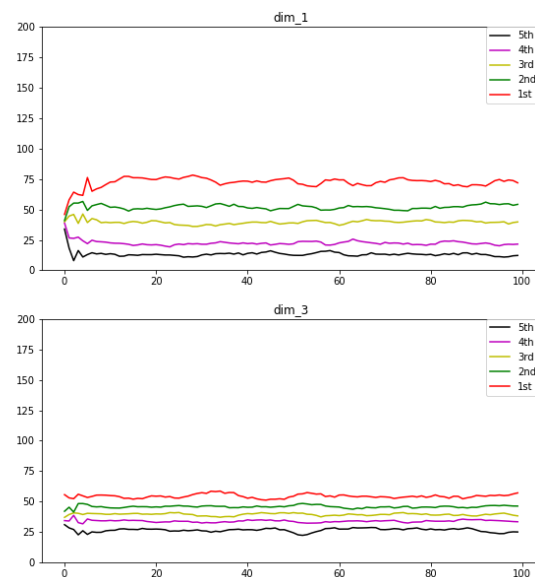
Odchylenie standardowe w klastrach:



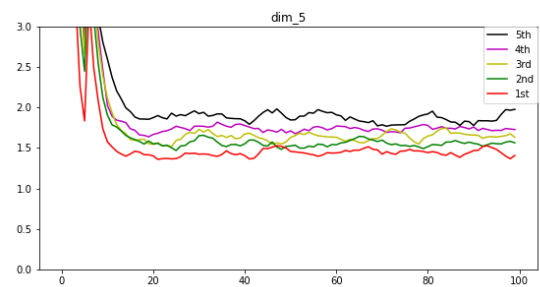
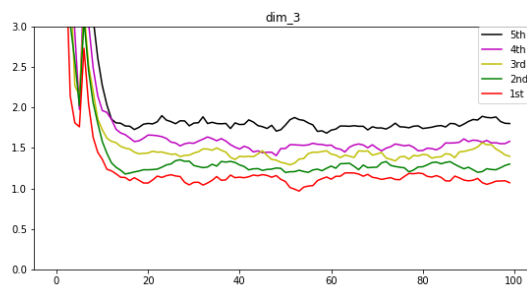
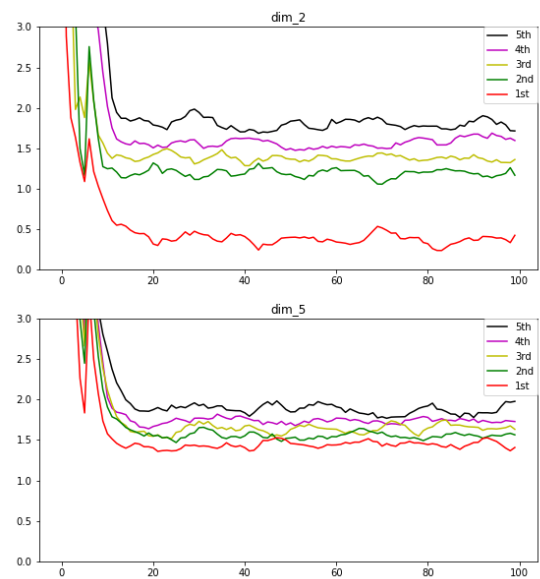
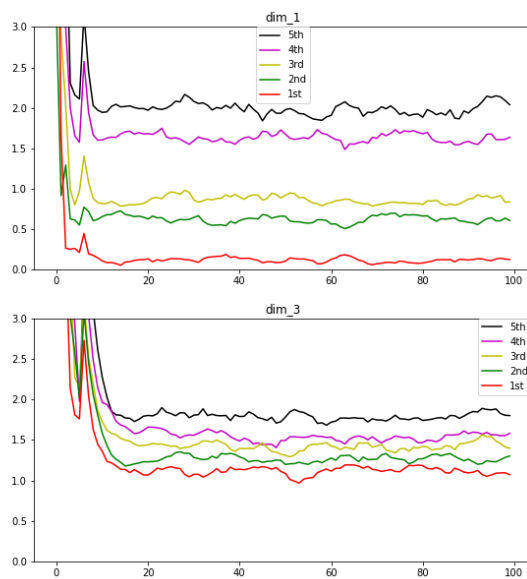
4 Porównanie wykresów dynamiki ze względu na wymiar

4.1 Funkcja Gaussa

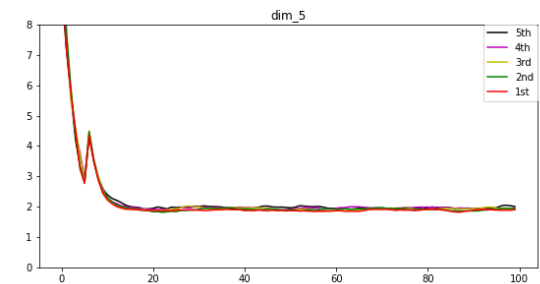
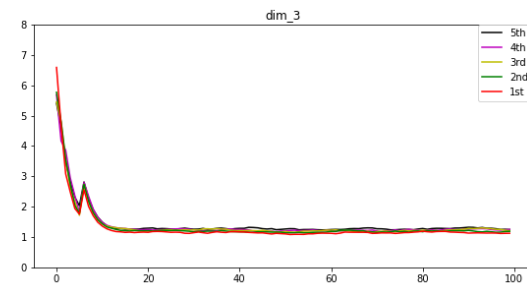
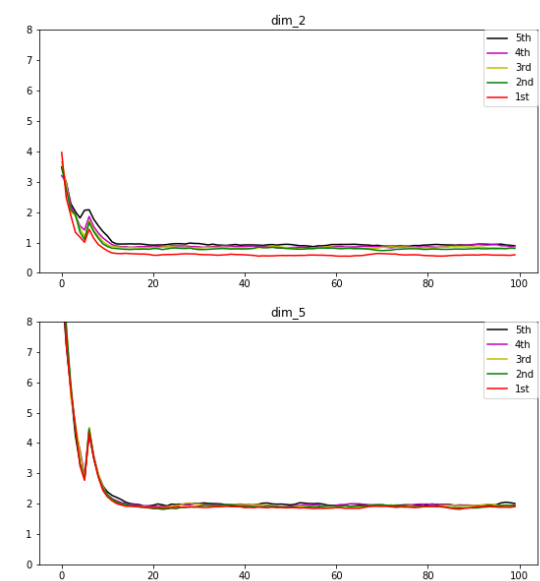
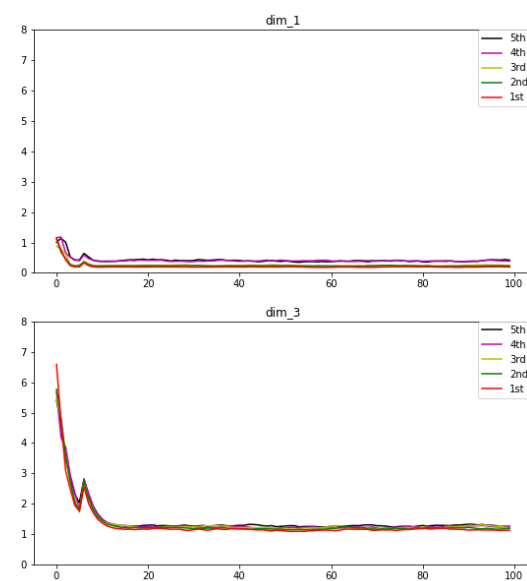
Liczność klastrow:



Odległość klastrow od minimów funkcji:

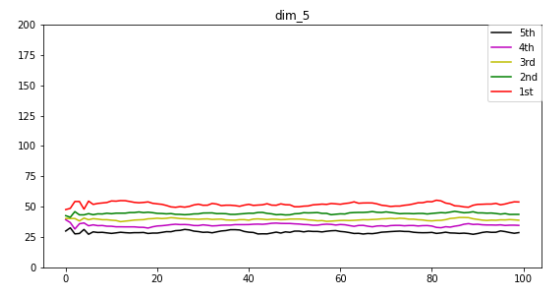
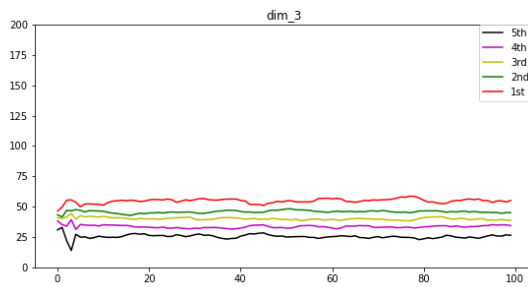
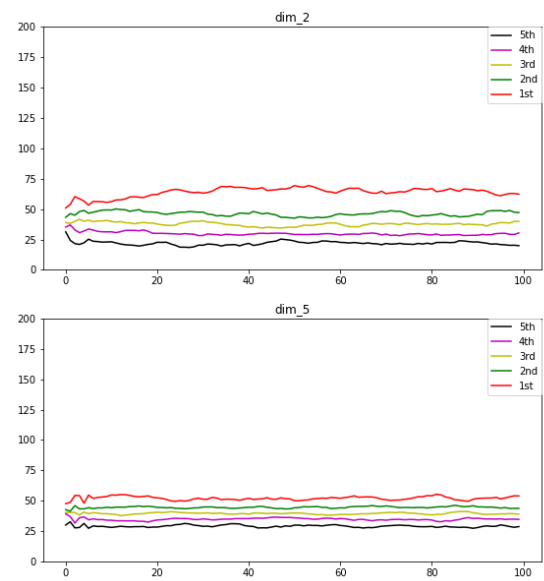
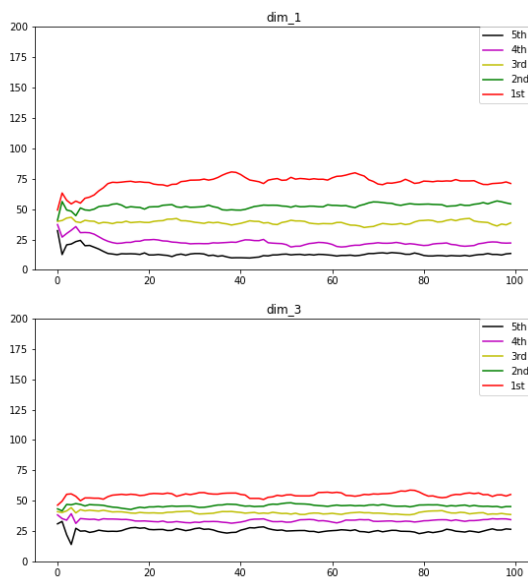


Odchylenie standardowe w klastrach:

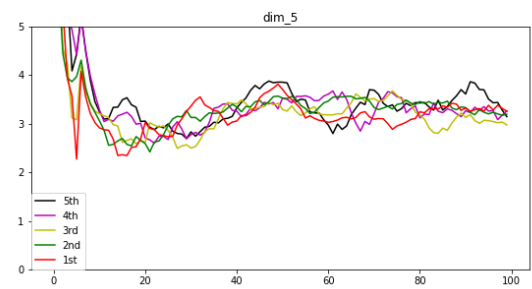
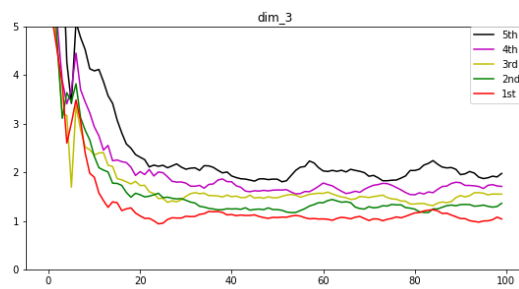
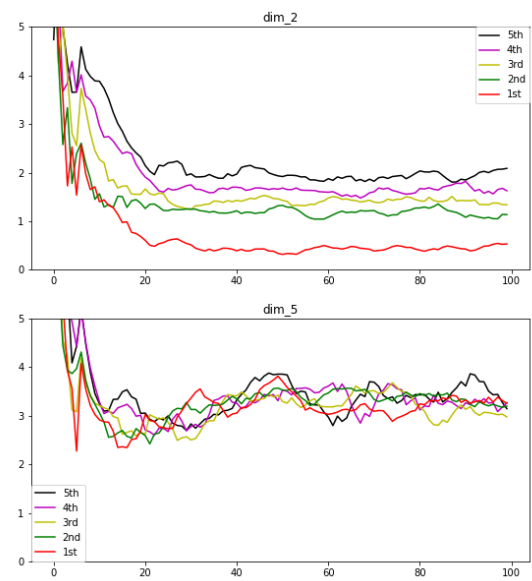
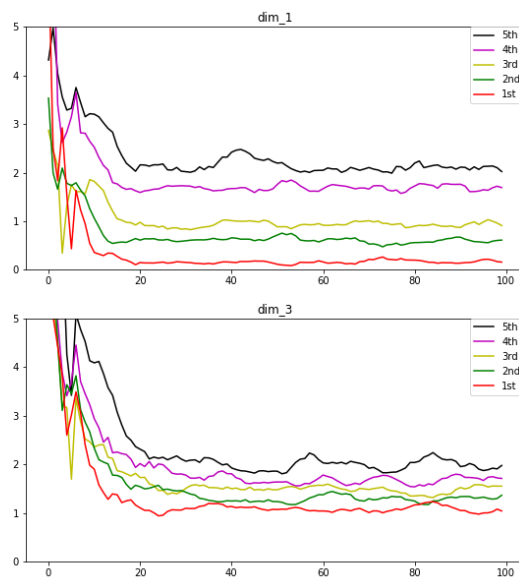


4.2 Suma dwóch funkcji Gaussa

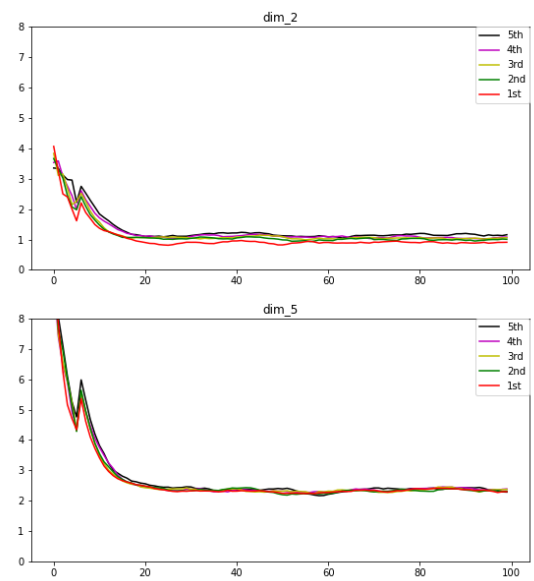
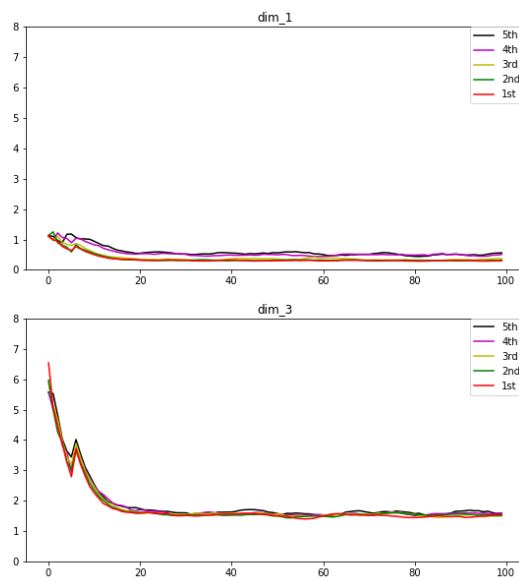
Liczność klastrów:



Odległość klastrow od minimów funkcji:

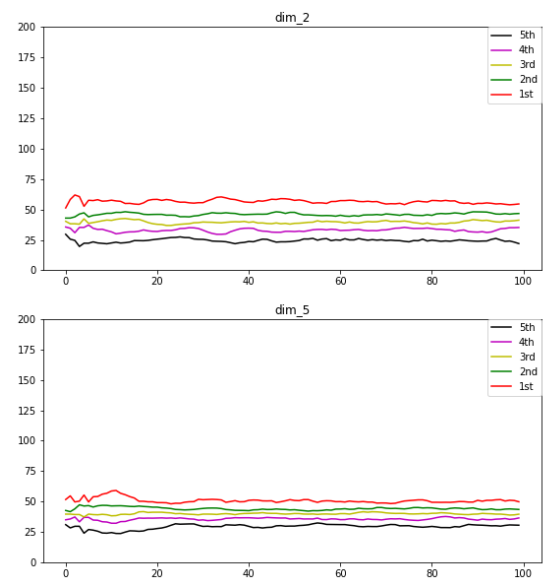
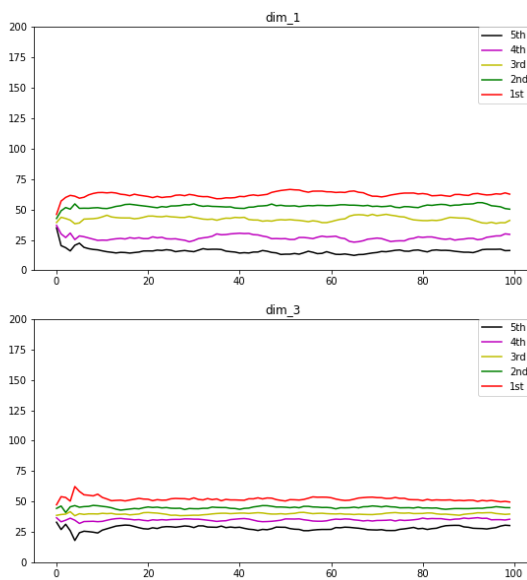


Odchylenie standardowe w klastrach:

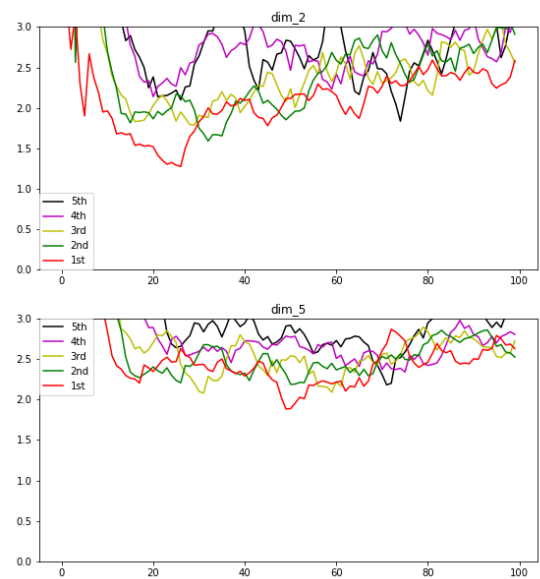
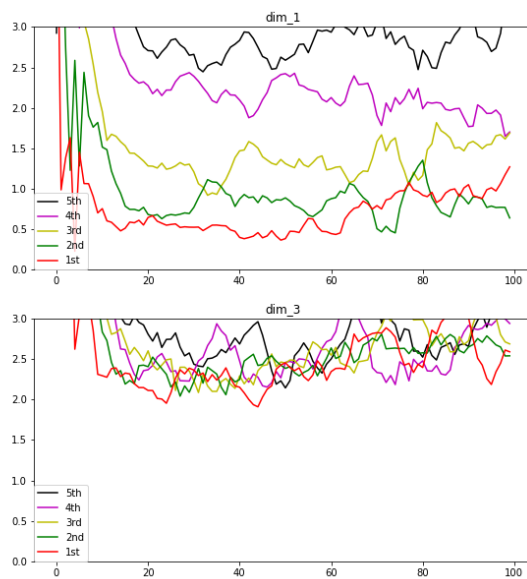


4.3 Funkcja stała

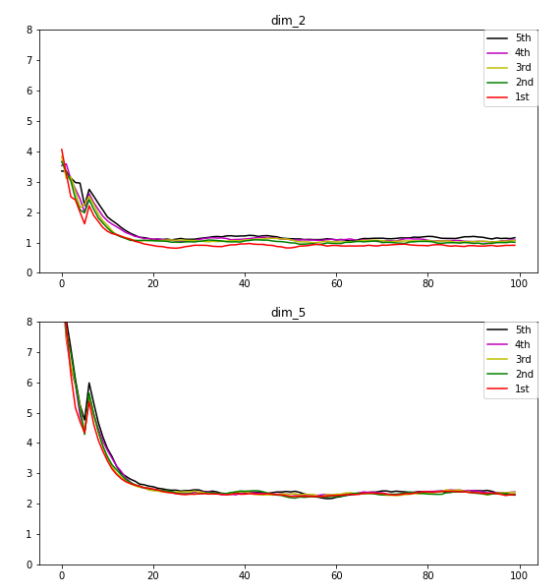
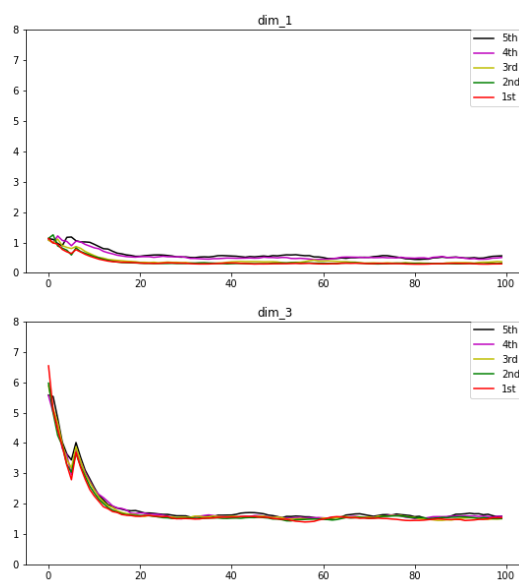
Liczność klastrow:



Odległość klastrow od minimów funkcji:

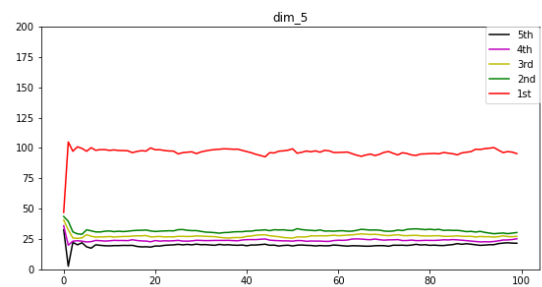
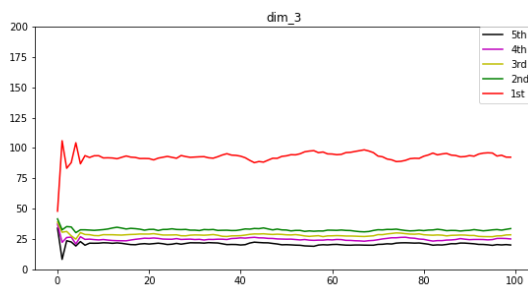
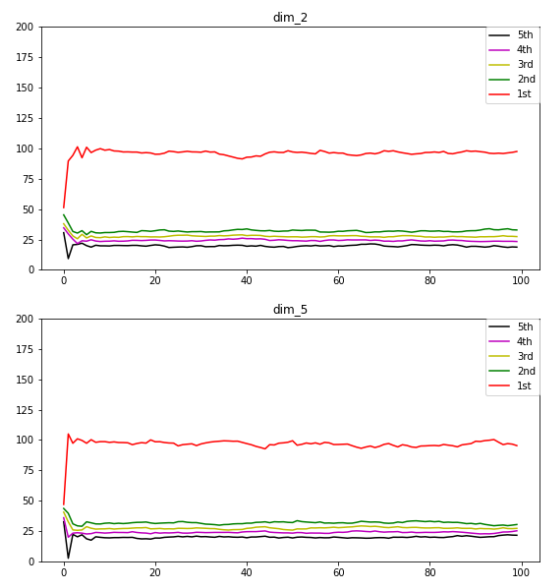
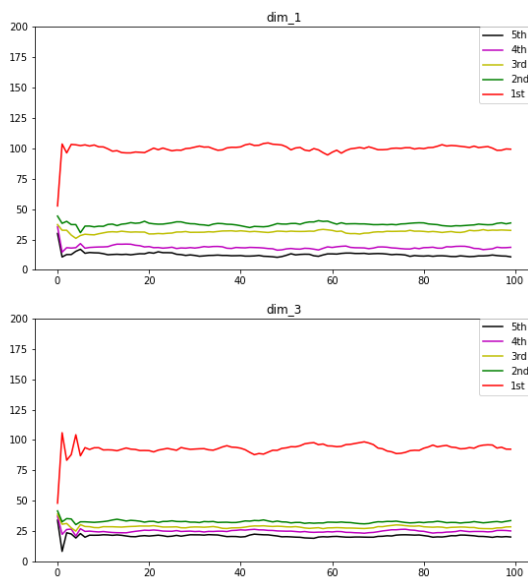


Odchylenie standardowe w klastrach:

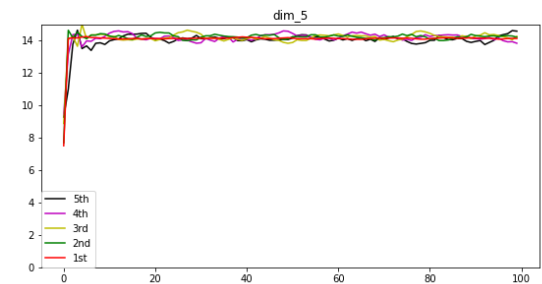
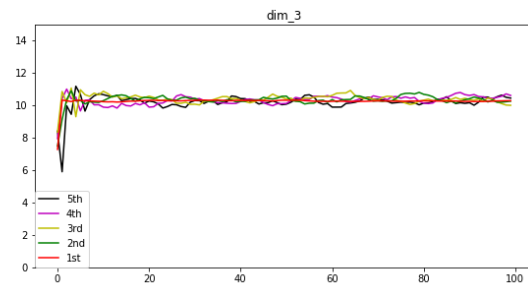
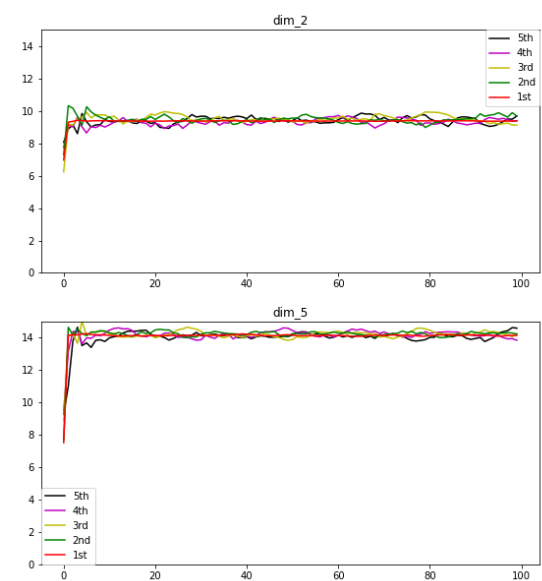
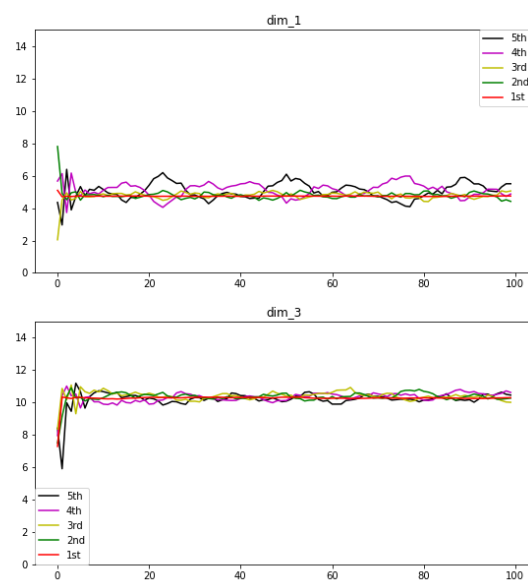


4.4 Funkcja Rastrigina

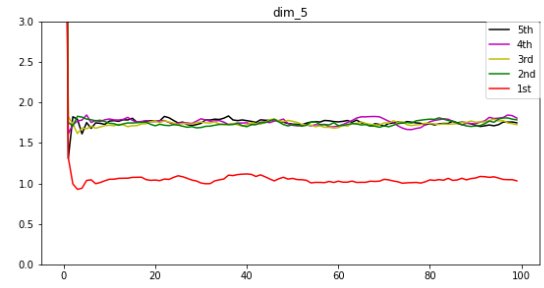
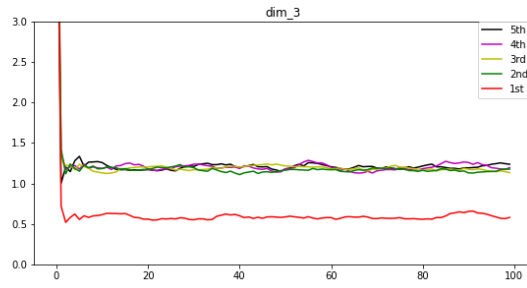
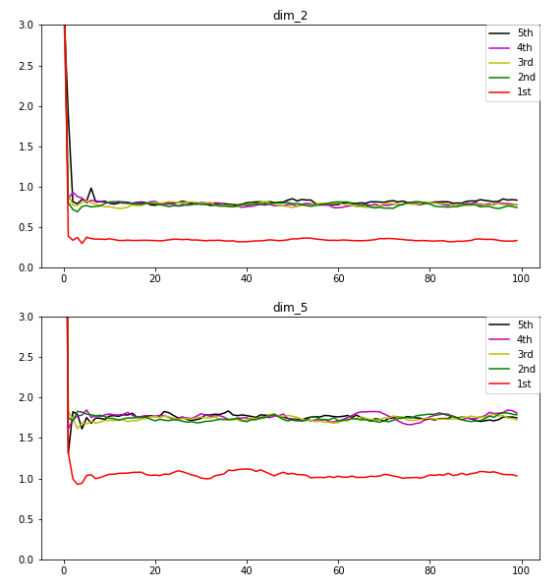
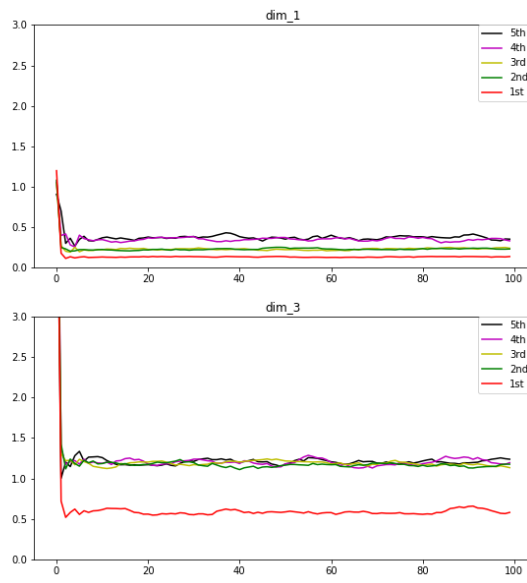
Liczność klastrow:



Odległość klastrow od minimów funkcji:



Odchylenie standardowe w klastrach:



References