

Algorytmy optymalizacji

Metoda Davidona-Fletchera-Powella

Stefan Toczek

Jakub Pasula

# Funkcja 1

Wzór: f(x) =

x0 = 0

Wynik działania algorytmu:

fmin = 4.306039211198519

xmin = 12.327846144241519

Ilość kroków pętli głównego algorytmu: 1

Ilość kroków złotego podziału: 22

Poszczególne kroki złotego podziału:

|  |  |
| --- | --- |
| 12.068881230286156 | 4.311247720963294 |
| 13.493387913199754 | 4.419685181055664 |
| 11.188439542637390 | 4.403844153491700 |
| 12.612966784096050 | 4.312471207781958 |
| 11.732566213057355 | 4.333175786038343 |
| 12.276680177976401 | 4.306246933828632 |
| 12.405142425107286 | 4.306503595421678 |
| 12.197322918871983 | 4.307373452054627 |
| 12.325761608310588 | 4.306039697175002 |
| 12.356073700570700 | 4.306099869976863 |
| 12.307006121801747 | 4.306074515184339 |
| 12.337331357508326 | 4.306045664395884 |
| 12.318589452084590 | 4.306046518423121 |
| 12.330172511893622 | 4.306039499492136 |
| 12.332912060407265 | 4.306040910338054 |
| 12.328492866497957 | 4.306039215680796 |
| 12.327446441152199 | 4.306039262170259 |
| 12.329131234652523 | 4.306039271508151 |
| 12.328089981725517 | 4.306039213285652 |
| 12.327846144241519 | 4.306039224179548 |
| 12.328245837997665 | 4.306039211198519 |
| 12.328338976601428 | 4.306039211766550 |

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Wizualizacja kroków algorytmu:

