|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Quadratic (initial\_point ở gần local minimum) | Rosenbrock | Goldstein Price | ???? |
| GD with alpha changed | Không | Chi hoi tu duoc voi initial\_point gan minimum va max\_iterations rat lon | Khong hoi tu duoc voi initial\_point [-2,2] va [2,2], con lai hoi tu duoc voi max\_iterations du lon |  |
| GD with momentum | Có thể qua được với beta đủ lớn (alpha =0.01, beta = 0.5) | Chi hoi tu duoc voi initial\_point gan minimum va max\_iterations rat lon | Khong hoi tu duoc do gradient qua lon |  |
| Newton | Không | Co | Khong hoi tu duoc khi initial\_point la [2,2] va [-2,2] |  |
| Quasi Newton | Khong | Co | Hoi tu khong on dinh voi cac initial\_point khac nhau |  |
| Trust region | Khong | Khong hoi tu duoc voi initial\_point qua xa (khoang [10, 10]) | Mac ket tai local minimum trong mot vai TH |  |
| Tabu search | Co voi perturbation du lon | Hoi tu on dinh voi max\_iterations du lon (~3k) | Co |  |
| VNS | Co voi neighborhood du lon (kMax hoac perturbation du lon) | Hoi tu on dinh voi kMax hoac max\_iterations du lon (~ 5/500) | Co |  |