A\_DE = DE(func=train\_svr, n\_dim=3, size\_pop=200, max\_iter=400,**prob\_mut=0.3,lb=[0,0,0], ub=[100,1000,100])**

best\_x: [7.42559624e-02 1.01474196e+02 1.62043698e-03]

best\_y: [-0.86393239]

best\_x[0]\_C: 0.07425596239072085

best\_x[1]\_gamma: 101.47419579348315

best\_x[2]\_epsilon: 0.0016204369796457563

MAE\_test: 0.02414873443480285

MSE\_test: 0.0009374215842834599

RMSE\_test: 0.030617341234722845

MAPE\_test: 1715.9052766128261

r2\_score\_test: 0.8639323892715304

EV\_test: 0.865282555817011

A\_DE = DE(func=train\_svr, n\_dim=3, size\_pop=200, max\_iter=400,**prob\_mut=0.4,lb=[0,0,0], ub=[100,1000,100])**

best\_x: [48.59224126 18.20474018 0.14114666]

best\_y: [-0.85086214]

best\_x[0]\_C: 48.59224126014638

best\_x[1]\_gamma: 18.204740180050365

best\_x[2]\_epsilon: 0.1411466593448083

MAE\_test: 0.016611242125892

MSE\_test: 0.0010274674847199827

RMSE\_test: 0.03205413366041863

MAPE\_test: 201.35202956846737

r2\_score\_test: 0.850862143467817

EV\_test: 0.8513649537461805

A\_DE = DE(func=train\_svr, n\_dim=3, size\_pop=200, max\_iter=400,**prob\_mut=0.5,lb=[0,0,0], ub=[100,1000,100])**

best\_x: [7.92252122e+01 1.83539086e+00 2.06388393e-03]

best\_y: [-0.98546295]

best\_x[0]\_C: 79.22521220378849

best\_x[1]\_gamma: 1.8353908620360357

best\_x[2]\_epsilon: 0.0020638839268985144

MAE\_test: 0.005520141922765385

MSE\_test: 0.00010015126379008339

RMSE\_test: 0.010007560331573495

MAPE\_test: 269.3107237423359

r2\_score\_test: 0.9854629513509978

EV\_test: 0.9855680374448714

A\_DE = DE(func=train\_svr, n\_dim=3, size\_pop=200, max\_iter=400,**prob\_mut=0.6,lb=[0,0,0], ub=[100,1000,100])**

best\_x: [6.94408549e+00 5.42417812e+00 2.65999231e-03]

best\_y: [-0.98717859]

best\_x[0]\_C: 6.944085492519914

best\_x[1]\_gamma: 5.424178120621453

best\_x[2]\_epsilon: 0.002659992310990168

MAE\_test: 0.005456980723176838

MSE\_test: 8.833158838200805e-05

RMSE\_test: 0.009398488622220492

MAPE\_test: 281.1537578021087

r2\_score\_test: 0.9871785881779354

EV\_test: 0.9872325953028557

A\_DE = DE(func=train\_svr, n\_dim=3, size\_pop=200, max\_iter=400,p**rob\_mut=0.7,lb=[0,0,0], ub=[100,1000,100])**  
best\_x: [4.87005075e+00 6.34545957e+00 4.09849531e-03]

best\_y: [-0.98922726]

best\_x[0]\_C: 4.870050750435265

best\_x[1]\_gamma: 6.345459569317322

best\_x[2]\_epsilon: 0.00409849531097119

MAE\_test: 0.003769273103256828

MSE\_test: 7.421752702272768e-05

RMSE\_test: 0.008614959490486747

MAPE\_test: 67.74718642857802

r2\_score\_test: 0.9892272572495999

EV\_test: 0.9894555823593333

A\_DE = DE(func=train\_svr, n\_dim=3, size\_pop=200, max\_iter=400,p**rob\_mut=0.7,lb=[0,0,0], ub=[100,1000,100])**

best\_x: [4.80622964e+00 6.32687834e+00 4.00025113e-03]

best\_y: [-0.98924121]

best\_x[0]\_C: 4.806229640075425

best\_x[1]\_gamma: 6.326878341573328

best\_x[2]\_epsilon: 0.004000251126106571

MAE\_test: 0.0038294959299487496

MSE\_test: 7.412141421629729e-05

RMSE\_test: 0.00860937943270578

MAPE\_test: 83.11822288450918

r2\_score\_test: 0.9892412081124248

EV\_test: 0.9895695654003026