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**CEC20 , CEC22 Single objective constrained numerical optimisation test function suite**

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- PSDE.m is the core of the SMSDE algorithm, i.e.  
the part that dynamically selects secondary operators based on the score.
- **How to replace the test function:**  
When using the CEC20 test function, place the cec20\_func.cpp and input\_data folders in the same folder as the algorithm. Set this folder to the current path.  
If you are using the CEC22 test function, replace cec20\_func.cpp and input\_data with cec22\_func.cpp and input\_data from the CEC22 test function, and change the opt array in Introd\_Pa r as commented in the code.
- **How to run SMSDE:**  
Run main\_loop.m for numerical optimization.  
Set the problem dimensions in main\_loop.m to n=10 or n=20, as required.  
The final result statistics will be displayed in the Matlab command window and saved in the r esult\_ folder.