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Authors: Weishi Shao, Dechang Pi, Zhongshi Shao

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## An extended teaching-learning based optimization algorithm for solving no-wait flow shop scheduling problem

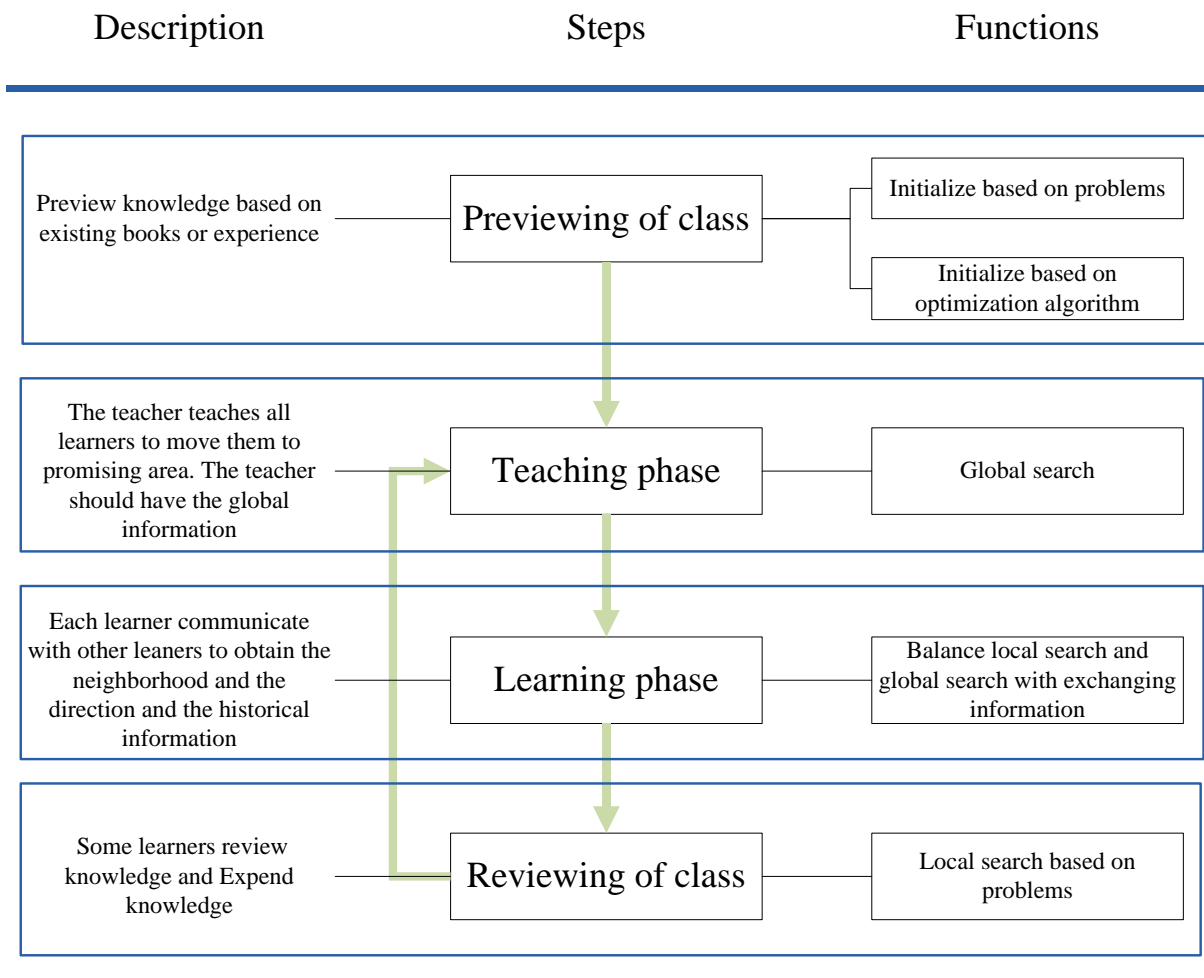
Weishi Shao <sup>a</sup>, Dechang Pi <sup>a,b</sup>, Zhongshi Shao <sup>a1</sup>

<sup>a</sup> College of Computer Science and Technology, Nanjing University of Aeronautics and Astronautics, Nanjing, China

<sup>b</sup> Collaborative Innovation Center of Novel Software Technology and Industrialization, Nanjing, China

<sup>1</sup> Email: shaoweishi@hotmail.com (Weishi Shao), nuaacs@126.com (Dechang Pi), shaozhongshi@hotmail.com (Zhongshi Shao)

### Graphical abstract



### Highlights

- A novel framework of meta-heuristic algorithm according to the teaching-learning process is proposed.
- The Gaussian distribution is employed as teacher to guide learning to search more promising areas.
- The best learner is integrated to mutation vectors and the crossover operation is used to save the historical knowledge.

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