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Authors: S. Torkaman, S.M.T. Fatemi Ghomi, B. Karimi

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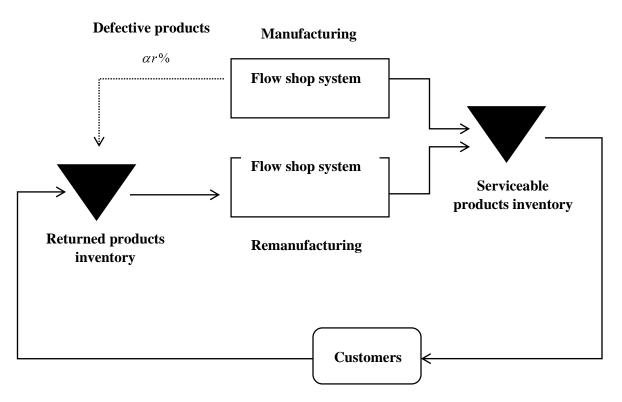
#### ACCEPTED MANUSCRIPT

## Hybrid simulated annealing and genetic approach for solving a multi-stage production planning with sequence-dependent setups in a closed-loop supply chain

#### S. Torkaman <sup>a,b</sup>, S. M.T. Fatemi Ghomi <sup>a,c\*</sup>, B. Karimi <sup>a,d</sup>

- <sup>a</sup> Department of Industrial Engineering, Amirkabir University of Technology, 424 Hafez Avenue, 1591634311 Tehran, Iran
- <sup>b</sup> E-mail address: s.torkaman@aut.ac.ir
- <sup>c</sup> Corresponding author. Tel.: (+9821) 64545381, Fax.: (+9821) 66954569, E-mail address: fatemi@aut.ac.ir
- <sup>d</sup> Tel.: (+9821) 64545374, E-mail address: b.karimi@aut.ac.ir

#### Graphical abstract



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