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| **Title: Social Evolution Algorithm**  **Main author: R.S. Pavithr and Gursaran**  **Year:** 2012-2013  **Link:** <https://www.sciencedirect.com/science/article/pii/S0965997813001853>  Studied by: Faiza Shanawar 15140070 |
| **Journal:** Advances in intelligent System and Computing  **IF:** 3.198  **Pages:8** |
| **Structure of the paper**   1. Abstract 2. Introduction  * Literature review * Inspiration * Introduction of social behavior algorithms      1. Social Evolution Algorithm  * Pseudo Code * Proposed Solution * Exploitation analysis * Exploration analysis * Convergence behavior analysis  1. Conclusion 2. References |
| **Detail of figures and plots**  **Regarding inspiration**   1. Inspiration of Human Social Behavior: Show the human interaction and beliefs in the society. 2. interactive behavior of Social Evolution algorithm: how individuals interact in a society and share information.   **Regarding Mapping of the inspiration**   1. Position updating in SE-Algorithm. 2. Evaluation of neighbors based on co-operation factor vs. sharing of information. 3. Pseudo code of the algorithm.   **Related to experimental studies**   1. N-D versions of unimodal benchmark function 2. N-D versions of multimodal benchmark function 3. Plot of the results in a tabular form. |
| **Experimental setup and experimentation**   * **Experiment-1:** Performed on 1 unimodal and 3 multimodal benchmark functions   + **Compared with:** ABC, PSO, DE   + **Outputs:** Mean and best values   + **Output structure:** Tabular display of the data |
| **A brief summary of the proposed work [one paragraph]** |
| **Critical review** |
| **Any idea to upgrade the concept** |
| **Name five papers from references, you’d like to read next** |
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