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to address these problems in this paper we introduce three state of the art mathematical inspired metaheuristic algorithms for training the elm network pareto like sequential sampling pss metaheuristic algorithms are mostly robust problem solving approaches extensively used in search and optimization domains osaba et al 2021 they are divided into different categories fig 2 swarm based algorithms evolutionary algorithms physics inspired algorithms and human inspired algorithms bhattacharyya et al 2020 among recently the honey badger algorithm hba was proposed as a metaheuristic algorithm honey badger hunting behaviour inspired the development of this algorithm in the exploitation phase hba performs poorly and stagnates at the local best solution on the other hand the sand cat swarm optimization scso is a very competitive algorithm compared to other common metaheuristic algorithms since the fa developed in 2008 by yang et al fister et al 2013 is a modern nature inspired stochastic metaheuristic algorithm that can be applied to solve all kinds of np hard optimization problems it belongs to the group of stochastic algorithms which means it will use randomization to search a set of solutions in particular metaheuristic algorithms are approximate methods for solving optimization problems whereby good not necessarily optimum solutions can be generated via their implementation in this study we propose a population based metaheuristic algorithm according to chemotherapy method to cure cancers that mainly search the infeasible region this paper demonstrates the usefulness of such algorithms for solving a variety of challenging optimization problems in statistics using a nature inspired metaheuristic algorithm called competitive swarm optimizer with mutated agents cso ma in this section four selected metaheuristic algorithms namely pso gwo woa and smo will be employed to train a feedforward neural network ffnn the objective is to predict the ice to liquid ratio which in turn determines the thickness of ice accretion on overhead transmission lines inspired by biological mechanisms such as biological evolution and social interaction metaheuristic algorithms also have the ability to adapt to environmental changes just like living things and metaheuristics are reasonable solutions to solve dynamic optimization problems doi 10 1016 j heliyon 2024 e31629 corpus id 270038823 greater cane rat algorithm gcra a nature inspired metaheuristic for optimization problems article agushaka2024greatercr title greater cane rat algorithm gcra a nature inspired metaheuristic for optimization problems author jeffrey o agushaka and absalom el shamir ezugwu and apu k saha and jayanta pal and laith mohammad this paper introduces a new metaheuristic technique known as the greater cane rat algorithm gcra for addressing optimization problems the optimization process of gcra is inspired by the intelligent foraging behaviors of greater cane rats during and off mating season recently a new biologically inspired metaheuristic algorithm called circulatory system based optimization csbo was proposed 20 this algorithm was designed based on the operation of the body s blood vessels the common weak point of all meta heuristic algorithms is the unbalance of exploitation and exploration hard rock support vector machine metaheuristic algorithms a b s t r a c t hard rock pillar is one of the important structures in engineering design and excavation in underground mines this paper introduces a new metaheuristic technique known as the greater cane rat algorithm gcra for addressing optimization problems the optimization process of gcra is inspired by the intelligent foraging behaviors of greater cane rats during and off mating season being highly nocturnal they are intelligible enough to leave trails as they forage through reeds and grass such trails this project involves the analysis and comparison of genetic algorithm ga and particle swarm optimization pso for minimizing mathematical functions and solving the traveling salesman problem tsp using the scikit opt library both ga and pso are popular metaheuristic algorithms used for optimization problems angel3245 ga and pso analysis metaheuristic in computer science and mathematical optimization a metaheuristic is a higher level procedure or heuristic designed to find generate tune or select a heuristic partial search algorithm that may provide a sufficiently good solution to an optimization problem or a machine learning problem especially with incomplete or the comparative results clearly show the superiority of the sabo algorithm over all other well known optimization algorithms provided in the literature for solving the opf problem this is evidenced by minimizing total generation costs of 781 2363 h for the modified ieee 30 bus and 16 706 1630 h for the algerian dza 114 bus system a genetic algorithm with tabu search procedure for flexible job shop scheduling with transportation constraints and bounded processing times computers operations research 39 1713 1723 2012 google scholar digital library x s yang a new metaheuristic bat inspired algorithm in encyclopedia of networked and virtual organizations no june 2010 pp 65 74 managing the explosion of data from the edge to the cloud requires intelligent supervision such as fog node deployments which is an essential task to assess network operability to ensure network operability the depl the hboa citation 36 is a metaheuristic algorithm inspired by the intelligent foraging behavior of honey badgers where digging and honey finding strategies are simulated in the exploration and exploitation of the search space the hboa imitates the behavior of honey badgers to catch their prey and involves two prominent stages digging and

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