Deep Loving - The Friend of Deep Learning

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Abstract
Artificial Intelligence and Deep Learning are good fields of research. Recently, the brother of Artificial Intelligence titled “Artificial Satisfaction” was introduced in literature [10]. In this article, we coin the term “Deep Loving”. After the publication of this article, “Deep Loving” will be considered as the friend of Deep Learning. Proposing a new field is different from proposing a new algorithm. In this paper, we strongly focus on defining and introducing “Deep Loving Field” to Research Scientists across the globe. The future of the “Deep Loving” field is predicted by showing few future opportunities in this new field. The definition of Deep Learning is shown followed by a literature review of the “Deep Loving” field. The World’s First Deep Loving Algorithm (WFDLA) is designed and implemented in this work by adding Deep Loving concepts to Particle Swarm Optimization Algorithm. Results obtained by WFDLA are compared with the PSO algorithm.

Index terms—deep learning, deep loving, artificial intelligence, artificial satisfaction, artificial mothers, swarm intelligence, artificial mother optimization.

1 Direct Contribution: Satish Gajawada and Hassan M. H. Mustafa contributed directly, completely, and equally to this article.

2 I.
Definition of Deep Loving Field ust like Mothers in real-world solve real problems, Artificial Mothers (in Deep Loving Field) move in the search space for solving optimization problems. In Deep Loving, we imitate mothers in the real space. In the Artificial Human Optimization field [6], Artificial Soul Optimization field [7], and Artificial God Optimization field [9], the basic entities in search space are Artificial Humans, Artificial Souls, and Artificial Gods respectively. Similarly, the basic entities in the Deep Loving Field are Artificial Mothers. Whenever we think of the term “Mother,” the Deep Love that each mother shows towards their family, children, etc. comes to mind. Hence the name “Deep Loving Field” is given to the field when Artificial Mothers in search space are imitating Mothers in real-world to solve optimization problems. Instead of naming the field as "Artificial Mother Optimization," a better name "Deep Loving" is chosen by us.

3 II.
4 Infinite Opportunities in the new Deep Loving Field

5 Literature Review
There are many Deep Learning papers published in the literature. But there is not even a single paper which is based on Deep Loving. The World’s First Deep Loving method is created in this article. For the sake of completeness, references [2] to [5] show Deep VI.
6 Results

The ASA algorithm in [10], and WFDLA designed in this paper are MATHEMATICALLY equal. In [10] it was shown that both ASA and PSO algorithms performed well on all benchmark functions. Hence due to MATHEMATICAL EQUALITY, both WFDLA and PSO performed well on all benchmark functions.

Deep Loving - The Friend of Deep Learning © 2020 Global Journals scratch rather than modifying existing algorithms like PSO.
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IV. Learning articles. You can easily find references for Deep Learning on websites like deeplearning.net. We just showed four references for Deep Learning for completeness.

V. World's first Deep Loving Algorithm (wfdla)
6 RESULTS
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