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Emergence of Novelty in Evolutionary Algorithms

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Evolutionary algorithms are known to converge to non-evolving populations rather quickly. Rewarding with respect to an objective does not improve overall performance. Novelty Search is one of the solutions to this problem. We explored and developed techniques which can complement the popular divergent algorithm called Novelty Search. We believe its main drawback lies in attempting to define the diversity of a population. In our case, we instead explored approaches where novelty arises from more basic principles, such as the environment itself.

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