

way.

Even when these variants are not able to solve NP-complete problems efficiently, these new ingredients are really interesting for some applications, improving the running time for previously designed solutions. When a real-life cell replicates its ADN, without realizing it, it replicates also the genetic code of the virus. This behavior can be abstracted as a division of the host entity, duplicating its entire genetic code (the connections and internal elements). Potentially, this type of instruction could lead to presumably efficient virus machines, as it happens in the framework of membrane computing [5].

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