

Title (en)

APPARATUS AND A METHOD FOR SOLVING PROBLEMS

Title (de)

ANLAGE UND VERFAHREN ZUR LÖSUNG VON PROBLEMEN

Title (fr)

APPAREIL ET PROCEDE PERMETTANT DE RESOUDRE LES PROBLEMES

Publication

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Application

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Abstract (en)

[origin: WO0175791A2] A processor arrangement (2, 6, 11) is operable to provide an initial population of individuals each comprising a plurality of structural elements each comprising a plurality of functional components defining operations to be performed on at least one input to the functional component and then to: (i) activate each individual to cause the operations defined by the functional components of that individual to be performed to produce a result; (ii) determine from each result a fitness of the corresponding individual for providing a mechanism or program for providing a solution to the problem; (iii) produce a new generation of individuals by causing an evolutionary process to occur involving at least one structural element and at least one functional component; and then to repeat (i) to (iii) until either an individual of the current generation represents a suitable way, structure, mechanism or program for providing a solution to the problem or a predetermined number of generations have been evolved.

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