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ALGORITHM FOR SELECTION OF N NUMBER OF INDIVIDUALS FROM A GIVEN DATABASE
FOR SPACE MISSIONS ON THE BASIS OF PREDEFINED PARAMETERS

Abstract

A lot of programs and projects by international giants have been dedicated to colonization of extra-terrestrial bodies like Moon and Mars. Almost all the proposed plans are to settle an establishment which is self-sustaining for a maximum of 5 years. One important part of all the proposed plans is the selection of capable individuals for the colonization . Till now no well-defined model for procedure of selection of individuals has been proposed. For selection of people hundreds of parameters like expertise in different fields, physical and mental evaluation , genetic diversity, blood group and organ similarities etc has to be taken in consideration. The process of iterating hundreds of parameters can be done efficiently by a well programmed algorithm. This papers primarily aims to develop an algorithm which will iterate all the defined parameters to selected N number of people from a given database. The secondary objective of this paper is the comparison between the results of different sets of defined parameters so that an efficient algorithm parameter set can be finalized which will in turn serve as an efficient model of selection of group of people which will be qualified, genetically and geographically diverse, physically and psychologically fit.