

Analysis of Intelligent Human Constituents (IHC): Widening Scope of Computational Modeling in Conceptual Models: Case of Ayurveda

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Artificial Life or ALife is concerned with computational models invented by considering explicit knowledge in biological systems. However conceptual models have not been addressed for A Life due to involvement of informal practising methodologies. This leads to concern with tacit knowledge in conceptual models. This paper presents a research, which is incorporated with a computational modelling in diagnosis of human constitutions in Ayurvedic medicine called intelligent human constituents (IHC) based on a conceptual model. Further, Tacit knowledge is the key issue of knowledge modelling aspect because all knowledge is rooted in tacit knowledge. An Intelligent Hybrid system involved with artificial intelligent techniques, namely fuzzy logic and expert system technology has been used to implement the computational model. The result of the modelling of Ayurvedic domain using fuzzy logic has been compatible with the experiences of the Ayurvedic experts. It has shown 77% accuracy in using the tacit knowledge for reasoning in the relevant domain.

Keywords: Artificial Life, Computaional modeling, Conceptual modeling, Intelligent Human Constituents

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