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Future_computing_2024_1_20_30013

The Trajectoriate of an Adaptive Criteria Weighting Methodology Supersedes Comparator Similarity Measure, and Renders High Dimensional Data Clutter Tolerance Moot, Paving the Way for the Ascertainment of Bespoke Dynamic Fuzzy Logic

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Keywords: Computational Intelligence Strategies; Future Computational Technologies; EVEALT Methodology; High Dimensional Data; Demonyms Comparator; Information Fusion; Dynamic Systems; Dynamic Fuzzy Logic.

Abstract:
Bespoke Real World Systems (RWS) must contend with the temporal dimension relating to the membership function and the associated RWS phenomenon of uncertainty. This problem is particularly challenging when the RWS is a dynamic system involving robust Information Fusion (IF). There is a need for a more capable Computational Intelligence (CI) methodology to underpin IF, planning and decision-making, and central to this is the Dynamic Fuzzy Logic (DFL). Dynamic Fuzzy Logic Systems (DFLS) have been proposed, and have been considered, but equally the extent of difficulty, within an acceptable performance time frame, has been an ongoing challenge. This paper proposes a solution to the DFL problem, by the use of a prospective KSD-centric Incremental analogon consisting of: (1) an Adaptive Criteria Weighting Methodology (ACWM) to derive entropy weights, (2) a Dynamic Comparator Similarity Measure (DCSM) to gauge attributes, via the deployment of Very Small/Non-Obvious Demonyms, and (3) a Fuzzy Logic Tolerance Measure (FLTM) to satisfy Index (CI) Measure (ICM) that are data uncertainty tolerant, and Fuzzy Logic Tolerant (FLT). The aim of this paper is that of an ECMR-ECMR-FCR Incremental approach, as a contribution to the DFL challenge – and the overarching complex Real World Systems (RWS) Information Fusion Computational Intelligence (IFCI)Perfect Learning (PL) systems –by addressing a thematic that is crucial for IF in dynamic RWS and well warrants further investigation.

Pages: 8 to 17

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Publication date: April 24, 2024

Published in: conference

ISSN: 2308-3735

ISBN: 978-1-68558-160-2

Location: Venice, Italy

Status: from April 14, 2024 to April 18, 2024

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