

An Efficient Case Retrieval Algorithm for Agricultural Case-Based Reasoning Systems, with Consideration of Case Base Maintenance

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Abstract:

Case-based reasoning has considerable potential-to mod el decision support systems for smart agriculture, assist LQJIDUPHUV LQ PDQDJLQJIDUPLQJ RSHUDWLRQV +RZHYHU with the explosive amount of sensing data, these systems may achieve poor performance in knowledge manage ment like case retrieval and case base maintenance. Typ ical approaches of case retrieval have to traverse all past cases for matching similar ones, leading to low efficiency. Thus, a new case retrieval algorithm for agricultural casebased reasoning systems is proposed in this paper. At the initial stage, an association table is constructed, ase 7.9 (t) rT 0 0enance. Typ