

Kritsadakorn Kongubol 2009: Order Difference Criterion for Class Association Rule Update. Master of Engineering (Computer Engineering), Major Field: Computer Engineering, Department of Computer Engineering. Thesis Advisor: Associate Professor Kitsana Waiyamai, Ph.D. 67 pages.

Associative classification is one of on well-known data classification techniques. With the increasing number of data, the problem of classification accuracy maintenance is of great importance. Updating the class association rules requires large amount of time, and the prediction accuracy is not increased that much. In this research work, a novel framework for Incremental Associative Classification (ICMF) is proposed. ICMF uses Order Difference (OD) criterion to decide whether to update the class association rules. Order Difference is the difference between rule order before and after updating model. Rules are updated only if new data modify to a certain extent the order of the rules on the basis of some interestingness measures which can be support or confidence. Experiment results show that ICMF yields better accuracy compared to the framework with class association rule update and without class association rule update.

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Thesis Advisor's signature

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