Comparison of GUIDE, QUEST, CRUISE, CART, and C4.5 classification tree algorithms

	GUIDE	QUEST	CRUISE	CART	C4.5
Unbiased splits	Yes	Yes	Yes	No	No
Splits per node	2	2	≥ 2	2	2
Interaction detection	Yes	No	Yes	No	No
Importance ranking	Yes	No	No	Yes	No
Class priors	Yes	Yes	Yes	Yes	No
Misclassification costs	Yes	Yes	Yes	Yes	No
Linear splits	Yes	Yes	Yes	Yes	No
Categorical splits	Subsets	Subsets	Subsets	Subsets	Atoms
Node models	S, K, N	S	S, L	S	S
Missing values	Special	Imputation	Surrogate	Surrogate	Weights
Tree diagrams	Text and LaTeX			Proprietary	Text
Bagging	Yes	No	No	No	No
Forests	Yes	No	No	No	No

Node models: S = simple, K = kernel, L = linear discriminant, N = nearest-neighbor.