Algorithm Selection with continuous feature optimal decision trees An adaption of ConTree's algorithm for instance cost-sensitive classification Saunaq Chakrabarty, Koos v.d Linden, Emir Demirovic





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Scenario	ConTree++	Random	STreeD
Name		Forest	
ASP-	0.76	0.84	0.76
POTASSCO			
CSP-2010	0.88	0.82	0.94
BNSL-2016	0.77	0.86	0.78
CPMP-2015	0.19	0.36	0.29
GLUHACK-	0.28	0.17	0.19
2018			
MAXSAT-	0.90	0.89	0.87
2012 PMS			
PROTEUS-	0.68	0.70	0.70
2014			
QBF2016	0.58	0.41	0.5

Scenario	ConTree++	MIP
Name		
ASP-	0.82	-
POTASSCO		
CSP-2010	0.06	-
BNSL-2016	0.33	-
CPMP-2015	0.007	-
GLUHACK-	0.03	-
2018		
MAXSAT-	0.03	-
2012 PMS		
PROTEUS-	1.16	-
2014		
QBF2016	0.27	-



binarized methods for sufficient binarization values

- Less fast than binarized

Tighter lower bounds and pruning to help scalability

More robust experiments on interpretability tradeoff

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