a. % MRE (smaller values are better).

b. % SA (larger values are better)

Rank	a. % MRE (smaller values are better). Using Med. IQR			Rank	b. % SA (larger values are better) Using Med. IQR			
albrecht 1 2 2 2 2 3 3 3 4 china	CART_FLASH CART_DE ABEN_DE LP4EE ABE0 RF ABEN_RD CART CART_CART_RD SVM ATLM	32 12 33 14 42 15 44 13 45 16 46 24 48 21 53 22 54 20 56 19 140 91	out-of-range	albrecht 1 1 2 2 2 2 3 3 3 3 3 china	CART_FLASH CART_DE ABEN_DE ABE0 RF LP4EE CART ABEN_RD ATIM CART_RD SVM	65 59 52 51 49 47 41 37 34 32 30	18 19 23 20 29 25 31 33 13 27 18	
1 1 2 2 3 3 4 4 5 5 5 5	LP4EE ATLM CART_FLASH ABEN_DE ABE0 CART_DE ABEN_RD RF SVM CART CART_RD	45 5 48 6 61 5 62 6 64 5 64 6 68 7 71 7 71 5 72 6		1 1 1 1 1 1 2 2 2 2 2 3 3 3 3	LP4EE CART_FLASH ABEN_DE ABE0 CART_DE SVM RF ABEN_RD ATLM CART CART_CART_RD	32 30 29 28 27 21 21 20 12 12 10	9 8 13 7 6 3 11 9 5 13 -4	• • • • • • • • • • • • • • • • • • •
desharnais 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	CART_DE CART_FLASH LP4EE RF ABEN_DE SVM CART_RD ABEN_RD CART_ ABEN_ CART_ ABEN	35 11 35 11 38 13 46 12 47 14 48 12 48 13 49 16 49 14 50 15 54 17	+ + + + + + + +	tieshamais 1 1 2 2 2 2 2 2 2 2 3 3 3 4	CART_FLASH CART_DE LP4EE RF ABEN_DE ABEN_DE CART CART ATLM ABEN_RD CART_RD	53 48 46 46 44 43 39 37 37 37	11 11 12 11 14 12 7 12 8 13 10	-+
finnish 1 2 3 3 4 4 4 4 5	CART_FLASH CART_DE CART RF CART_RD ABEN_DE LP4EE ABE0 ABEN_RD SVM ATLM	42 17 48 16 57 21 57 26 58 22 62 37 63 33 64 48 64 42 74 13 87 72	÷	 1 2 3 3 3 4 4 4 4 4 4 4 5	CART_FLASH CART_DE RF ABEN_DE CART ATLM CART_RD ABEO LP4EE ABEN_RD SVM	54 49 44 43 42 41 40 40 39 38 24	13 12 16 25 17 48 22 25 22 25 27 9	+ + + + + + + + +
isbsg10 1 1 2 2 2 2 2 2 2 3	CART_DE CART_FLASH SVM CART_RD ABE0 CART ABEN_DE LP4EE ABEN_RD RF ATLM	59 20 62 19 72 17 73 24 73 60 74 21 74 25 75 23 76 35 78 58 127 124	out-of-range	 isbsg10 1 1 1 2 2 2 3 3 3 3 3 3	CART_DE CART_FLASH ATLM ABEN_DE ABE0 SVM LP4EE CART_RD RF ABEN_RD CART	33 30 30 28 28 25 22 22 22 21 20	19 18 20 24 23 11 23 - 28 - 35 - 27 34	
kemerer 1 2 2 2 2 2 3 3 3 4	CART_DE CART_FLASH RF ABEN_DE LP4EE CART_RD CART_ABE0 SVM ABEN_RD ATLM	32 24 37 27 50 39 54 22 54 23 55 25 55 27 56 33 59 14 60 17 76 56		kemerer 1 2 2 2 2 2 2 2 3 3 3 kitchenham	CART_DE CART_FLASH CART RF ABEN_DE LP4EE ABE0 CART_RD ABEN_RD ATLM SVM	55 43 42 41 40 40 38 36 32 30 28	30 27 25 29 27 23 25 27 28 28 24	
kitchenham 1 1 2 2 2 3 3 4 5 6	CART_FLASH ABEN_DE LP4EE CART_DE ABE0 ABEN_RD RF CART CART_RD SVM ATLM	34 6 35 8 38 7 39 9 42 10 43 8 49 11 57 12 60 8	out-of-range	Riteriennam 1 1 1 1 1 1 2 2 2 2 2 3 3 4 4 4 4 5 5 maxwell	LP4EE ABEN DE ABEN CART_FLASH RF ABEN RD CART_DE CART_CART CART RD SVM ATLM	52 51 47 44 41 40 40 34 32 32 -3	24 25 23 24 19 19 20 14 18 17 37	
maxwell 1 1 2 2 2 2 2 3 3 3 4	CART_FLASH CART_DE RF LP4EE CART CART RD ABEN_DE SVM ABEN_RD ABEO ABEO ATLM	36 10 38 8 51 15 51 16 52 10 53 11 53 16 56 13 56 13 56 14 282 221	out-of-range	1 1 1 2 2 2 3 3 3 4 4 4 4 5 5 miyazaki	CART_FLASH LP4EE CART_DE RF ABEN_DE ABEN_DE ABEN_RD CART CART_RD SVM ATLM	55 52 51 44 43 39 39 37 36 30 -107	7 13 16 11 12 10 13 21 23 11 99	out-of-range
miyazaki 1 1 2 2 2 3 3 3 3 3 3	CART_DE CART_FLASH LP4EE SVM ATLM ATLM ABEN_DE RF ABEO CART ABEN_RD CART_RD	32 11 32 11 33 10 37 10 37 32 39 16 46 24 47 12 47 16 47 15 48 14	+ + + + - - - - - - -	1 1 1 1 2 2 2 2 2 3 3 3 3	CART_FLASH CART_DE LP4EE ATLM ABEN_DE RF ABE0 CART_RD ABEN_RD SVM CART	53 52 50 46 46 45 42 42 41 41	13 14 11 9 18 19 15 20 24 12 21	+ + + + + + + + + +

Fig. 1. % MRE and % SA results from our cross-validation studies. Same format as Figure ??. The gray rows show the **Rank=1+ results* recommended for each data set. The phrase "out-of-range" denotes results that are so bad that they fall outside of the 0%...100% range shown here. For space reasons, these results are slightly truncated. Not shown here are any **Rank>1* methods that are listed as **slower* in Table ?? since such sub-optimal and slower treatments need not be discussed further) For all results, see tiny.cc/oil-18.