a. % MRE (smaller values are better).

b. % SA (larger values are better)

Rank	a. % MRE (smaller values are better).  Using Med. IQR			b. % SA (larger values are better)  Rank Using Med. IQR					
albrecht  1  2  2  2  3  3  3  4  china	CART FLASH CART_DE ABEN_DE LP4EE ABEO 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		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 ABEO CART_DE ABEN_RD RF SVM CART CART_RD	45 5 48 6 61 5 62 6 64 5 68 7 69 8 71 7 71 5 72 6			1 1 1 1 2 2 2 3 3	LP4EE CART FLASH ABEN_DE ABEO CART_DE SVM RF ABEN_RD ATLM CART CART_RD	32 30 29 28 27 21 21 20 12 12 10	9 8 13 7 6 3 11 9 5 13 16	     
desharnais 1 1 2 2 2 2 2 2 2 2 2 2	CART DE CART FLASH LP4EE RF ABEN_DE SVM CART RD ABEN, RD CART ABEO ATLM	35 11 35 11 38 13 46 12 47 14 48 12 48 13 49 16 49 14 50 15 54 17	+ + + + + + +		desharnais 1 2 2 2 2 2 3 3 3 3 4	CART_FLASH CART_DE LP4EE RF ABEN_DE ABEO SVM CART ATLM ABEN_RD CART_RD	53 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 ABEO 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	+ + + + + + + + + + + + + + + + + + +	_	finnish 1 2 3 3 4 4 4 4 4 5	CART_FLASH CART_DE RF ABEN_DE CART ATLM CART_RD ABEO LP4EE ABED_RD SVM	54 49 44 43 42 41 40 40 39 38 24	13 12 16 25 17 48 22 25 22 27 9	+ + - - - - - - - - - - - - - - - - - -
isbsg10 1 1 2 2 2 2 2 2 2 3	CART DE CART_FLASH SVM CART_RD ABEO CART ABEN_DE LP4EE ABEN_RD RF ATLM	59 20 62 19 72 17 73 24 73 60 74 21 74 21 75 23 76 35 78 35 78 52 127 124	out-of-range	_	isbsg10 1 1 1 2 2 2 3 3 3 3 3 3	CART_DE CART_FLASH ATLM ABEN_DE ABEO 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 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 ABEO 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 6 38 6 39 9 42 10 43 8 49 11 57 12 60 8	out-of-range		1 1 1 1 2 2 2 2 3 4 4 4 5 maxwell	LP4EE ABEN_DE ABEO 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 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 1 2 2 2 3 3 4 4 4 4 5	CART_FLASH LP4EE CART_DE RF ABEN_DE ABEN_RD CART_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 1 2 2 2 3 3 3 3 3 3	CART_DE CART_FLASH LP4EE SVM 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 3 3 3 3	CART FLASH CART DE LP4EE ATLM ABEN_DE RF ABEO CART RD ABEN_RD SVM CART	53 53 52 50 46 46 45 42 42 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.