Data for algorithm validation (N = number of points selected, h = number of points on the hull)

Set-A

N = 10, h = 5

[(487.7, 401.5), (556.3, 439.1), (571.4, 517.7), (516.9, 597.2), (410.8, 564.2)]

N = 50, h = 8

[(599.4, 400.8), (594.5, 583.9), (550.1, 598.5), (472.6, 596.1), (454.2, 589.4), (410.8, 564.2), (416.3, 405.3), (487.7, 401.5)]

N = 100, h = 10

[(599.4, 400.8), (599.0, 514.4), (594.5, 583.9), (550.1, 598.5), (463.3, 597.2), (409.2, 572.5), (406.0, 425.9), (407.3, 410.2), (416.3, 405.3), (485.2, 400.9)]

N = 500, h = 15

[(526.9, 400.5), (599.4, 400.8), (599.0, 514.4), (598.1, 539.6), (594.5, 583.9), (573.5, 598.7), (554.8, 599.4), (411.2, 599.2), (401.6, 580.5), (401.0, 486.8), (401.0, 412.3), (401.2, 408.3), (416.3, 405.3), (421.6, 404.9), (485.2, 400.9)]

N = 1000, h = 15

[(526.9, 400.5), (599.4, 400.8), (599.0, 514.4), (598.8, 562.1), (594.5, 583.9), (583.0, 598.8), (554.8, 599.4), (411.2, 599.2), (401.6, 580.5), (400.7, 497.3), (400.6, 475.0), (401.0, 412.3), (401.2, 408.3), (415.6, 404.9), (438.5, 400.5)]

N = 2000, h =4

[(600.0, 400.0), (600.0, 600.0), (400.0, 600.0), (400.0, 400.0)]

N = 30000, h = 4

[(950.0, 50.0), (950.0, 950.0), (50.0, 950.0), (50.0, 50.0)]

Set-B

N = 10, h = 6

[(498.3, 418.1), (527.9, 478.6), (530.5, 502.9), (507.6, 513.0), (442.1, 507.4), (429.4, 494.0)]

N = 50, h = 10

[(487.3, 413.7), (525.3, 426.2), (543.1, 435.4), (585.0, 457.2), (599.2, 499.8), (557.7, 546.7), (521.6, 583.1), (457.7, 561.8), (407.3, 532.9), (443.2, 453.7)]

N = 100, h = 13

[(460.8, 412.2), (487.3, 413.7), (525.3, 426.2), (548.3, 435.8), (583.2, 455.2), (585.0, 457.2), (599.2, 499.8), (559.9, 558.7), (521.6, 583.1), (471.1, 593.4), (407.3, 532.9), (428.8, 459.6), (441.3, 440.0)]

N = 500, h = 18

[(514.0, 401.7), (549.0, 419.6), (567.2, 433.6), (585.0, 457.2), (599.2, 499.8), (598.5, 509.5), (588.0, 534.1), (568.9, 571.3), (527.7, 594.4), (480.9, 594.7), (471.1, 593.4), (407.3, 532.9), (406.9, 520.3), (409.2, 476.3), (428.8, 433.1), (435.6, 426.5), (460.8, 412.2), (503.6, 402.1)]

N = 1000, h = 25

[(502.6, 401.1), (514.0, 401.7), (534.9, 410.7), (549.0, 419.6), (574.3, 438.2), (585.1, 450.8), (597.6, 481.0), (599.2, 499.8), (598.5, 509.5), (595.4, 527.4), (578.8, 555.1), (568.9, 571.3), (527.7, 594.4), (507.7, 597.5), (480.9, 594.7), (471.1, 593.4), (430.3, 570.8), (407.3, 532.9), (402.4, 496.0), (406.2, 476.9), (414.3, 457.1), (428.8, 433.1), (435.6, 426.5), (460.8, 412.2), (486.6, 403.2)]

N = 2000, h = 31

[(500.0, 400.0), (519.9, 402.0), (538.9, 407.9), (556.5, 417.5), (571.7, 430.3), (584.1, 446.0), (593.2, 463.8), (598.5, 483.0), (600.0, 502.9), (597.4, 522.7), (590.9, 541.6), (580.8, 558.9), (567.5, 573.7), (551.6, 585.7), (533.5, 594.2), (514.1, 599.0), (494.2, 599.8), (474.4, 596.7), (455.7, 589.7), (438.8, 579.1), (424.3, 565.4), (412.8, 549.0), (404.8, 530.7), (400.6, 511.2), (400.4, 491.3), (404.1, 471.6), (411.7, 453.1), (422.7, 436.5), (436.9, 422.4), (453.5, 411.4), (472.1, 404.0)]

N = 30000, h = 141

[(500.0, 50.0), (520.0, 50.4), (539.9, 51.8), (559.8, 54.0), (579.6, 57.1), (599.2, 61.1), (618.6, 65.9), (637.8, 71.6), (656.7, 78.1), (675.2, 85.5), (693.5, 93.7), (711.3, 102.7), (728.8, 112.5), (745.8, 123.0), (762.3, 134.3), (778.3, 146.4), (793.7, 159.1), (808.6, 172.4), (822.8, 186.5), (836.4, 201.1), (849.4, 216.4), (861.6, 232.2), (873.2, 248.5), (884.0, 265.3), (894.0, 282.6), (903.3, 300.4), (911.8, 318.5), (919.4, 336.9), (926.2, 355.7), (932.2, 374.8), (937.4, 394.1), (941.6, 413.7), (945.0, 433.4), (947.6, 453.2), (949.2, 473.2), (949.9, 493.1), (949.8, 513.1), (948.8, 533.1), (946.9, 553.0), (944.1, 572.8), (940.4, 592.5), (935.9, 612.0), (930.4, 631.2), (924.2, 650.2), (917.1, 668.9), (909.2, 687.3), (900.5, 705.3), (890.9, 722.9), (880.7, 740.0), (869.6, 756.7), (857.8, 772.8), (845.4, 788.5), (832.2, 803.5), (818.4, 818.0), (804.0, 831.8), (788.9, 845.0), (773.3, 857.5), (757.1, 869.3), (740.5, 880.4), (723.3, 890.7), (705.8, 900.2), (687.8, 908.9), (669.4, 916.9), (650.7, 924.0), (631.8, 930.3), (612.5, 935.7), (593.0, 940.3), (573.4, 944.0), (553.6, 946.8), (533.7, 948.7), (513.7, 949.8), (493.7, 950.0), (473.7, 949.2), (453.8, 947.6), (434.0, 945.1), (414.2, 941.8), (394.7, 937.5), (375.4, 932.4), (356.3, 926.4), (337.5, 919.6), (319.0, 912.0), (300.9, 903.5), (283.1, 894.3), (265.8, 884.3), (249.0, 873.5), (232.6, 862.0), (216.8, 849.7), (201.6, 836.8), (186.9, 823.2), (172.8, 809.0), (159.4, 794.1), (146.7, 778.7), (134.7, 762.7), (123.4, 746.3), (112.8, 729.3), (103.0, 711.8), (94.0, 694.0), (85.7, 675.8), (78.3, 657.2), (71.8, 638.3), (66.1, 619.1), (61.2, 599.7), (57.2, 580.1), (54.1, 560.4), (51.8, 540.5), (50.5, 520.6), (50.0, 500.6), (50.4, 480.6), (51.7, 460.6), (53.9, 440.7), (57.0, 421.0), (60.9, 401.4), (65.8, 382.0), (71.4, 362.8), (77.9, 343.9), (85.3, 325.3), (93.5, 307.0), (102.4, 289.2), (112.2, 271.7), (122.7, 254.7), (134.0, 238.2), (146.0, 222.2), (158.7, 206.7), (172.1, 191.9), (186.1, 177.6), (200.7, 164.0), (215.9, 151.0), (231.7, 138.7), (248.0, 127.2), (264.9, 116.3), (282.1, 106.3), (299.8, 97.0), (317.9, 88.5), (336.4, 80.8), (355.2, 73.9), (374.3, 67.9), (393.6, 62.8), (413.1, 58.5), (432.8, 55.0), (452.7, 52.5), (472.6, 50.8)]