AGA Results

In this document, we present the missing experimental results in our paper "AGA: An Accelerated Greedy Additional Algorithm for Test Case Prioritization" due to the space limit.

1 Subjects Information

1.1 Open-source Subjects

As we say in our paper, the first part of the subjects consist of 55 open-source projects. Among these projects, 33 are widely used in prior work, the others are the most popular subjects selected from GitHub according to the number of stars. Specifically, we target GitHub subjects whose primary programming language is *Java* and order them according to the number of stars in Jan 2019. Then, we check the first 100 subjects and keep only the ones that are code repository and the required tools (e.g., Maven, Clover, PIT) could work.

All the open-source projects used in this work are written in Java, whose number of lines of code is from 1,621 to 254,284. Each of these projects has a test suite written in JUnit Testing Framework. The detailed information is given in Table 1. It is worth noting that compared with the experimental dataset used in recent TCP work, our dataset is larger and contains more large-scale projects, which can make our experimental results more reliable and convincing.

1.2 Industrial Subjects

To show the practical usage of our approach, we collected industrial subjects from Baidu. Baidu is a famous Internet service provider with over 600M monthly active users. In their regression testing infrastructure, test case prioritization is frequently needed and they have been adopting Greedy Additional (GA) strategy for a long time because of its simple idea and relatively high effectiveness. However, they often complain about the long running time of GA, which deviates from the original intention of TCP, that is to accelerate the process of detecting faults.

To check the performance of our AGA approach in real-world scenarios, we collected 22 versions of five industrial projects from Baidu, each of which is taken as a subject in this study. More specifically, these subjects are collected from Dec. 2017 to Feb. 2018 and Oct. 2018 to Nov. 2018, and all of them are

Table 1: Basic information for open-source subjects

| ID | Subjects | SLOC | TLOC | #Test Cases | #Mutants |
|--|----------------------------|---------|---------|-------------|----------|
| s_1 | DiskLruCache | 780 | 1,030 | 61 | 152 |
| s_2^1 | gson-fire | 895 | 726 | 36 | 520 |
| S-2 | gson-fire-v2 | 1,178 | 952 | 47 | 202 |
| $\begin{array}{c c} \mathcal{S}_3^- \\ \mathcal{S}_4 \end{array}$ | | | | | |
| \mathcal{S}_4 | jumblr | 1,489 | 1,243 | 103 | 167 |
| $egin{array}{c} \mathcal{S}_5 \ \mathcal{S}_6 \ \mathcal{S}_7 \ \mathcal{S}_8 \ \mathcal{S}_9 \end{array}$ | java-apns | 1,503 | 1,724 | 87 | 412 |
| \mathcal{S}_6 | jasmine-maven-plugin | 1,671 | 1,931 | 102 | 561 |
| S_7 | java-uuid-generator | 1,790 | 2,388 | 45 | 346 |
| \mathcal{S}_8 | gdx-artemis-master | 1,851 | 1,492 | 35 | 961 |
| s_9 | jopt-simple | 1,924 | 5,903 | 727 | 1,677 |
| s_{10} | protoparser | 2,153 | 3,227 | 171 | 864 |
| s_{11} | jackson-datatype-guava | 2,217 | 1,035 | 73 | 845 |
| s_{12}^{11} | jackson-datatype-guava-v2 | 2,366 | 1,327 | 80 | 320 |
| S_{13} | JActor | 2,542 | 4,418 | 65 | 56 |
| s_{14}^{10} | spring-retry | 2,765 | 3,419 | 185 | 351 |
| s_{15} | scribe-java | 2,808 | 2,536 | 99 | 563 |
| s_{16}^{16} | metrics-core | 2,835 | 2,194 | 150 | 1,656 |
| s_{17}^{10} | javapoet | 2,986 | 4,399 | 332 | 973 |
| s_{18}^{17} | low-gc-membuffers | 3,184 | 9,782 | 51 | 780 |
| s_{19}^{18} | lambdaj-master | 3,634 | 4,914 | 265 | 3,399 |
| s_{20}^{19} | LastCalc-0.1 | 4,522 | 581 | 32 | 2,499 |
| s_{21}^{20} | stream-lib | 4,835 | 3,806 | 141 | 3,811 |
| \mathcal{S}_{22}^{21} | webbit | 4,914 | 8,463 | 131 | 349 |
| s_{23} | commons-pool | 5,206 | 8,232 | 272 | 633 |
| | redline-smalltalk-master | 5,648 | 480 | 43 | 3,450 |
| s_{24} | la4i | 7,086 | 4,050 | 625 | 5,023 |
| s_{25} | redline-smalltalk | | | 240 | 833 |
| s_{26} | | 7,212 | 2,414 | | |
| s_{27} | nv-websocket-client | 7,351 | 657 | 73 | 277 |
| s_{28} | joss | 8,078 | 6,035 | 531 | 1,289 |
| s_{29}^{28} | raml-java-parser-master | 8,696 | 3,005 | 192 | 4,506 |
| s_{30}^{23} | raml-java-parser | 8,788 | 5,061 | 197 | 1,288 |
| s_{31} | la4j-v2 | 9,272 | 4,035 | 799 | 3,141 |
| 833 | commons-io | 9,980 | 19,189 | 1,081 | 7,773 |
| s_{33}^{32} | streamex | 10,427 | 7,906 | 450 | 3,958 |
| S_{34} | jsoup | 10,507 | 12,037 | 666 | 3,157 |
| s_{35} | commons-dbcp | 11,592 | 8,752 | 560 | 2,601 |
| s_{36} | rome-1.5.0 | 11,647 | 2,705 | 475 | 4,929 |
| $s_{37}^{\circ \circ}$ | assertj-core | 13,361 | 53,059 | 2,470 | 4,571 |
| s_{38} | vraptor-archive | 16,910 | 16,213 | 1,130 | 7,245 |
| s_{39}° | mapdb-mapdb-1.0.9 | 17,589 | 35,873 | 1,776 | 876 |
| s_{40}^{33} | RoaringBitmap | 17,807 | 21,494 | 1,148 | 21,319 |
| \mathcal{S}_{41}^{40} | blueflood | 19,517 | 15,774 | 961 | 1,854 |
| \mathcal{S}_{42}^{41} | lanterna | 20,682 | 7,724 | 34 | 344 |
| \mathcal{S}_{43}^{42} | jackson-core | 21,320 | 10,924 | 376 | 6,215 |
| S_{44} | jackson-core jsprit | 23,073 | 18,373 | 1,250 | 12,350 |
| \mathcal{S}_{45} | hivemall | 28,569 | 3,975 | 150 | 6,557 |
| \mathcal{S}^{45}_{46} | asterisk-java | 30,495 | 4,263 | 217 | 3,226 |
| \mathcal{S}_{47} | asterisk-java-v2 | 31,074 | 4,258 | 217 | 921 |
| S47 | restcountries | | 4,258 | 40 | 113 |
| s_{48} | | 31,324 | | | |
| s_{49} | chukwa | 32,654 | 8,051 | 131 | 569 |
| s_{50} | ews-java-api | 45,313 | 1,328 | 90 | 1,782 |
| s_{51} | languagetool | 47,589 | 20,778 | 719 | 26,662 |
| s_{52} | OpenTripPlanner-otp-0.20.0 | 64,718 | 14,207 | 379 | 7,325 |
| s_{53} | hbase-1.2.2 | 66,630 | 17,385 | 434 | 1,781 |
| s_{54} | commons-math | 86,748 | 90,798 | 5,082 | 84,476 |
| s_{55} | camel-core | 120,248 | 134,036 | 5,623 | 13,005 |
| | Total | 912,045 | 633,085 | 31,454 | 262,295 |

Table 2: Results of Industrial Subjects

| G 1 * | Basic 1 | Information | Time cost (s) | | | | | |
|----------------------|---------------------|-------------|------------------------|-----------------------|------------|------------------|----------------|---------------|
| $\mathbf{Subject}^*$ | \mathbf{SLOC}^{*} | #Test Cases | $\mathbf{G}\mathbf{A}$ | \mathbf{AGA} | FAST | ART-D | GA-S | \mathbf{GE} |
| \mathcal{I}_1 | >500K | 4,246 | 29,278.9102 | 359.9679 ✓ | 1,860.1473 | 543,106.2852 | 2,680,036.2615 | 54,969.0830 |
| \mathcal{I}_2 | > 200 K | 2,546 | 3,018.6473 | 89.9239 ✓ | 398.8814 | 32,938.6045 | 315,888.7090 | 13,887.3160 |
| \mathcal{I}_3 | > 200 K | 2,566 | 3,228.2772 | 86.0066 ✓ | 417.8356 | 30,458.8672 | 304,555.6710 | 14,124.1435 |
| \mathcal{I}_4 | > 200 K | 2,550 | 2,833.4841 | 80.5940 ✓ | 383.9494 | 24,944.4404 | 265,881.1139 | 19,345.1543 |
| \mathcal{I}_5 | $>200 {\rm K}$ | 2,556 | 3,289.5958 | 94.0641 ✓ | 428.5125 | 31,799.7539 | 366,902.7648 | 8,424.3798 |
| \mathcal{I}_6 | > 500 K | 4,123 | 22,118.0296 | $329.4710 \checkmark$ | 1,439.6848 | 402,039.4240 | 1,766,206.5003 | 49,274.3782 |
| \mathcal{I}_7 | > 500 K | 4,139 | 21,963.5968 | 336.3432 ✓ | 1,600.3634 | 411,725.1937 | 2,390,410.2541 | 54,897.2351 |
| \mathcal{I}_8 | > 200 K | 2,529 | 4,250.2729 | 89.2680 ✓ | 446.4625 | 36,610.5757 | 461,096.5509 | 3,857.2345 |
| \mathcal{I}_9 | > 500 K | 4,134 | 22,057.8564 | $335.8682 \checkmark$ | 1,450.5679 | 28,328.2207 | 2,091,910.4123 | 37,817.4141 |
| \mathcal{I}_{10} | $>200 {\rm K}$ | 2,542 | 3,238.5423 | 96.6740 ✓ | 418.7254 | 769,960.0223 | 265,087.9653 | 7,134.1514 |
| \mathcal{I}_{11} | > 500 K | 4,133 | 23,749.9149 | 348.1437 ✓ | 1,531.0934 | 398,946.3216 | 2,537,854.1564 | 39,417.0345 |
| \mathcal{I}_{12} | > 500 K | 4,137 | 22,194.6776 | 342.6023 ✓ | 1,466.4241 | 398,254.6365 | 2,016,031.3451 | 38,741.9410 |
| \mathcal{I}_{13} | > 500 K | 4,128 | 22,545.8684 | $362.5389 \checkmark$ | 1,470.3869 | 446,056.7049 | 2,018,768.3295 | 49,287.1451 |
| \mathcal{I}_{14} | > 200 K | 2,234 | 571.9417 | 22.2583 ✓ | 85.0108 | 4,999.5140 | 37,081.3254 | 487.0905 |
| \mathcal{I}_{15} | > 500 K | 2,201 | 6,517.1065 | 190.7537 ✓ | 926.5795 | 71,541.1456 | 513,769.5738 | 19,481.4108 |
| \mathcal{I}_{16} | > 20 K | 202 | 7.4382 | 3.5816 ✓ | 9.7204 | 87.4167 | 601.2848 | 42.7104 |
| \mathcal{I}_{17} | > 200 K | 2,216 | 599.1948 | 16.0822 ✓ | 85.3307 | 12,411.9608 | 32,268.7012 | 7,015.4581 |
| \mathcal{I}_{18} | > 20 K | 299 | 11.6980 | 2.2721 ✓ | 10.5942 | 83.9378 | 988.3095 | 38.6094 |
| \mathcal{I}_{19} | > 500 K | 3,993 | 21,482.4772 | 335.6216 ✓ | 1,750.2093 | 444,997.4857 | 2,295,089.0447 | 64,510.4519 |
| \mathcal{I}_{20} | > 200 K | 2,206 | 586.5093 | 18.7069 ✓ | 87.0280 | 6,905.6778 | 75,574.2453 | 1,048.8951 |
| \mathcal{I}_{21} | $>\!\!20{\rm K}$ | 281 | 8.0470 | 1.8397 ✓ | 9.1955 | 34.1523 | 610.4776 | 19.9627 |
| \mathcal{I}_{22} | $> 500 { m K}$ | 4,034 | 24,446.3671 | 335.9041 ✓ | 1,778.7107 | $466,\!512.4680$ | 2,636,222.8890 | 52,941.8715 |
| Total | $>6,860 \mathrm{K}$ | 61,995 | | 22 | | | | |

written in C. As shown in the first three columns in Table 2, we summarize the SLOC and number of test cases of each subject. The SLOCs range from 20K to 500K while the numbers of test cases range from 202 to 4,246. Besides, we used C-Cover to collect statement coverage for each industrial subject.

$\mathbf{2}$ Impact of iteration number on TCP effectiveness and efficiency

In our paper, we conduct an experiment to see whether the iteration number has large impact on TCP effectiveness and efficiency. Here, we present the complete results on each open-source project.

2.1Effectiveness

In this section, for each project, we present the APFD values of $algo_1, algo_2, \ldots, algo_k$, respectively, where $algo_i$ means the Greedy Additional algorithm runs for i iterations and the remaining test cases are prioritized using Greedy Total.

 S_1 : 0.8809, 0.9071, 0.9063, 0.9070, 0.9070, 0.9070, 0.9070, 0.9070, 0.9070

 S_2 : 0.8369, 0.8381, 0.8380, 0.8380, 0.8380

 S_3 : 0.8868, 0.8856, 0.8848, 0.8848, 0.8848

 S_4 : 0.8505, 0.8509

 S_5 : 0.8527

 S_6 : 0.8101

 S_7 : 0.9045, 0.9056, 0.9059, 0.9059, 0.9059

^{*}We hide project names for the confidential policy.

**We report rough scale of SLOC due to the confidential policy.

 S_8 : 0.8913, 0.8888, 0.8898, 0.8898, 0.8898

 \mathcal{S}_9 : 0.9144, 0.9144

 S_{10} : 0.9514, 0.9516, 0.9517, 0.9517, 0.9518, 0.9518, 0.9518, 0.9518

 S_{11} : 0.8741, 0.8766, 0.8765, 0.8765, 0.8766, 0.8766, 0.8766, 0.8766, 0.8766

 \mathcal{S}_{12} : 0.8854, 0.8864, 0.8864, 0.8864, 0.8864, 0.8864, 0.8864, 0.8864, 0.8864

 \mathcal{S}_{13} : 0.8500, 0.8615, 0.8615, 0.8615, 0.8615, 0.8615, 0.8615, 0.8615, 0.8615

 \mathcal{S}_{14} : 0.9188, 0.9199, 0.9214, 0.9206, 0.9203, 0.9199, 0.9195, 0.9191, 0.9188, 0.9188, 0.9188, 0.9188, 0.9188, 0.9188

 S_{15} : 0.8582

 S_{16} : 0.8010, 0.8021, 0.8025, 0.8031, 0.8031

 \mathcal{S}_{17} : 0.9114, 0.9151, 0.9171, 0.9179, 0.9180, 0.9184, 0.9184, 0.9184, 0.9183, 0.9183, 0.9183, 0.9183, 0.9183, 0.9183

 S_{18} : 0.9026, 0.9028, 0.9028, 0.9028

 S_{19} : 0.9003, 0.9028, 0.9032, 0.9034, 0.9034, 0.9033, 0.9033, 0.9033, 0.9033, 0.9033

 S_{20} : 0.8014, 0.8013

 S_{21} : 0.8353, 0.8324, 0.8320, 0.8328, 0.8328, 0.8328

 $\mathcal{S}_{22} \colon \ 0.8642, \ 0.8654, \ 0.8647, \ 0.8644, \ 0.8643, \ 0.8642, \ 0.8642, \ 0.8642, \ 0.8642$

 S_{23} : 0.8189, 0.8183, 0.8196, 0.8198, 0.8198, 0.8198, 0.8198, 0.8198, 0.8198

 S_{24} : 0.9850, 0.9856, 0.9858, 0.9

 S_{25} : 0.7135, 0.7612, 0.7544, 0.7507, 0.8120, 0.8082, 0.8073, 0.8273, 0.8306, 0.8401, 0.8391, 0.8399, 0.8393, 0.8383, 0.8377, 0.8382, 0.8398, 0.8391, 0.8390, 0.8409, 0.8434, 0.8442, 0.8435, 0.8432, 0.8436, 0.8433, 0.8434, 0.8428, 0.8455, 0.8452, 0.8450, 0.8447, 0.8446, 0.8442, 0.8439, 0.8438, 0.8447, 0.8444, 0.8455,

0.8461, 0.8462, 0.8461, 0.8461, 0.8460, 0.8458, 0.8458, 0.8457, 0.8456, 0.8456,

 $0.8455,\ 0.8454,\ 0.8454,\ 0.8453,\ 0.8453,\ 0.8452,\ 0.8452,\ 0.8451,\ 0.8451,\ 0.8450,\ 0$

0.8450, 0.8449, 0.8453, 0.8453, 0.8452, 0.8452, 0.8451, 0.8451, 0.8450, 0.8450, 0.8449, 0.8449, 0.8449, 0.8449, 0.8448, 0.8448, 0.8448, 0.8448, 0.8448, 0.8447, 0.8447, 0.8447, 0.8487, 0.8489, 0.84

0.8449, 0.8449, 0.8449, 0.8449, 0.8448, 0.8448, 0.8448, 0.8448, 0.8447, 0.8447, 0.8447, 0.8447, 0.8448, 0.8450

 \mathcal{S}_{26} : 0.8322, 0.8331, 0.8337, 0.8339, 0.8339, 0.8339, 0.8339, 0.8339, 0.8339

 \mathcal{S}_{27} : 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614

 \mathcal{S}_{28} : 0.9153, 0.9153, 0.9165, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164

 S_{29} : 0.9482, 0.9490, 0.9490, 0.9490, 0.9490, 0.9490, 0.9490, 0.9490, 0.9490

 S_{30} : 0.9620, 0.9616, 0.9617, 0.9617, 0.9617, 0.9617, 0.9617, 0.9617, 0.9617

 \mathcal{S}_{31} : 0.9511, 0.9464, 0.9416, 0.9430, 0.9430, 0.9428, 0.9427, 0.9426,

 \mathcal{S}_{32} : 0.8889, 0.8906, 0.8909, 0.8909, 0.8909, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911

 S_{33} : 0.8659, 0.8661, 0.8661, 0.8662, 0.8662, 0.8662

 \mathcal{S}_{34} : 0.9277, 0.9320, 0.9324, 0.9327, 0.9327, 0.9328,

 S_{35} : 0.9163, 0.9321, 0.9406, 0.9413, 0.9448, 0.9458, 0.9469, 0.9468, 0.9467, 0.9467, 0.9466, 0.9471, 0.9471, 0.9471, 0.9471, 0.9473, 0.9

 S_{36} : 0.8644, 0.8833, 0.8970, 0.8966, 0.9138, 0.9208, 0.9320, 0.9340, 0.9347, 0.9371, 0.9398, 0.9395, 0.9394, 0.9393, 0.9398, 0.9405, 0.9417, 0.9417, 0.9418

 S_{37} : 0.8508, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507,0.8507, 0.850.8507, 0.850.8507, 0.850.8507, 0.850.8507, 0.850.8507, 0.85 $0.8507, \ 0.85$ $0.8507, \ 0.85$ 0.8507, 0.850.8507, 0.85 $0.8507, \ 0.85$ 0.8507, 0.850.8507, 0.85 $0.8507, \ 0.85$ 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507,0.8507, 0.850.8507, 0.850.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, $0.8507, \ 0.85$ 0.8507, 0.850.8507, 0.850.8507, 0.850.8507, 0.85

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0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507
                                                                          S_{38}: 0.8657, 0.8657, 0.8657
                                                                                  S_{39}: 0.8679, 0.9476, 0.9511, 0.9543, 0.9545, 0.9545, 0.9545, 0.9545, 0.9545,
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0.9545, 0.9545, 0.9545, 0.9545, 0.9545, 0.9545, 0.9545, 0.9545, 0.9545, 0.9545,

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```

 \mathcal{S}_{40} : 0.9198, 0.9233, 0.9242, 0.9243, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244

 \mathcal{S}_{41} : 0.9040, 0.9093, 0.9097, 0.9103, 0.9106, 0.9105, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106

 S_{42} : 0.8574, 0.8569, 0.8569, 0.8569, 0.8569, 0.8569, 0.8569, 0.8569

 S_{43} : 0.8913, 0.8923, 0.8924, 0.8924, 0.8924, 0.8924

 $\mathcal{S}_{44}:\ 0.9159,\ 0.9221,\ 0.9235,\ 0.9237,\ 0.9237,\ 0.9232,\ 0.9239,\ 0.9239,\ 0.9236,\\ 0.9240,\ 0.9238,\ 0.9256,\ 0.9257,\ 0.9257,\ 0.9256,\ 0.9258,\ 0.9258,\ 0.9258,\ 0.9258,\\ 0.9258,\ 0.9258,\ 0.9258,\ 0.9258,\ 0.9258,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9258,\ 0.9259,\ 0.9261,$

 S_{45} : 0.8466, 0.8464, 0.8464, 0.8464, 0.8464, 0.8464, 0.8464

 \mathcal{S}_{46} : 0.8648, 0.8654, 0.8656, 0.8656, 0.8656, 0.8656, 0.8656, 0.8656, 0.8656

 \mathcal{S}_{47} : 0.8751, 0.8750, 0.8750, 0.8750, 0.8750, 0.8750, 0.8750, 0.8750, 0.8750, 0.8750

 S_{48} : 0.7939, 0.7939, 0.7939, 0.7939

 S_{49} : 0.7997, 0.8010, 0.8009, 0.8009, 0.8009, 0.8009, 0.8009

 \mathcal{S}_{50} : 0.8476, 0.8491, 0.8508, 0.8512, 0.8514, 0.8516, 0.8517, 0.8517, 0.8517, 0.8517, 0.8517, 0.8517, 0.8517

 \mathcal{S}_{51} : 0.8571, 0.8647, 0.8657, 0.8666, 0.8668, 0.8671

 \mathcal{S}_{52} : 0.9530, 0.9544, 0.9542, 0.9542, 0.9542, 0.9542, 0.9542, 0.9542, 0.9542, 0.9542

 \mathcal{S}_{53} : 0.8673, 0.8706, 0.8709, 0.8710, 0.8710, 0.8710, 0.8710, 0.8710, 0.8710, 0.8710

 \mathcal{S}_{54} : 0.9089, 0.9100, 0.9091, 0.9087, 0.9090, 0.9088, 0.9089,

 \mathcal{S}_{55} : 0.9516, 0.9539, 0.9540, 0.9541, 0.9543, 0.9544,

 $\begin{array}{c} 0.9544,\ 0.954$

From the data, we can see that the APFD values vary a little when the iteration number varies, which means a too large iteration number contributes little to the APFD value. This observation supports our claim that we can reduce the original iteration number to a relatively small number while preserving the high effectiveness.

2.2 Efficiency

In this section, for each project, we present the running time (in seconds) of $algo_1, algo_2, \ldots, algo_k$, respectively, where $algo_i$ means the Greedy Additional algorithm runs for i iterations and the remaining test cases are prioritized using Greedy Total.

```
S_1: 0.0504, 0.0641, 0.0729, 0.0784, 0.0811, 0.0828, 0.0837, 0.0840, 0.0841
```

 S_2 : 0.0116, 0.0146, 0.0157, 0.0162, 0.0163

 S_3 : 0.0379, 0.0491, 0.0535, 0.0547, 0.0550

 S_4 : 0.1880, 0.2045

 S_5 : 0.0843

 S_6 : 0.1394

 S_7 : 0.0809, 0.1029, 0.1112, 0.1150, 0.1156

 S_8 : 0.0237, 0.0315, 0.0339, 0.0344, 0.0344

 \mathcal{S}_9 : 14.6908, 15.2266, 15.6251, 15.9723, 16.2364, 16.4655, 16.6605, 16.7692, 16.8597, 16.9390, 17.0070, 17.0603, 17.0767, 17.0926, 17.1081, 17.1231, 17.1376, 17.1516, 17.1651, 17.1781, 17.1907, 17.2029, 17.2146, 17.2258, 17.2365, 17.2467, 17.2564, 17.2657, 17.2745, 17.2828, 17.2855

 S_{10} : 0.3590, 0.4801, 0.5353, 0.5646, 0.5859, 0.5937, 0.5978, 0.5985

 S_{11} : 0.0641, 0.0801, 0.0874, 0.0914, 0.0941, 0.0958, 0.0974, 0.0987, 0.0999, 0.1001

 \mathcal{S}_{12} : 0.1331, 0.1659, 0.1825, 0.1922, 0.1985, 0.2034, 0.2067, 0.2097, 0.2123, 0.2145, 0.2149

 \mathcal{S}_{13} : 0.1964, 0.2611, 0.2897, 0.3097, 0.3205, 0.3280, 0.3324, 0.3353, 0.3369, 0.3370

 \mathcal{S}_{14} : 0.8414, 1.3185, 1.5495, 1.6882, 1.7633, 1.8179, 1.8517, 1.8754, 1.8912, 1.9004, 1.9059, 1.9101, 1.9130, 1.9135

 S_{15} : 0.0675

 S_{16} : 0.3380, 0.3416, 0.3440, 0.3454, 0.3456

 S_{17} : 1.9914, 2.9735, 3.5052, 3.7878, 3.9669, 4.0707, 4.1227, 4.1520, 4.1705, 4.1830, 4.1909, 4.1949, 4.1970, 4.1976

 S_{18} : 0.1527, 0.1671, 0.1702, 0.1707

 \mathcal{S}_{19} : 2.3863, 3.1986, 3.5362, 3.7398, 3.8111, 3.8436, 3.8560, 3.8609, 3.8642, 3.8660, 3.8666

 S_{20} : 0.0271, 0.0285

 S_{21} : 0.8340, 1.0961, 1.1768, 1.2056, 1.2139, 1.2143

 S_{22} : 0.5849, 0.8163, 0.9193, 0.9644, 0.9832, 0.9927, 0.9982, 1.0024, 1.0029

 S_{23} : 4.7146, 6.2094, 6.7748, 7.0984, 7.2422, 7.3091, 7.3435, 7.3670, 7.3913, 7.3944

 \mathcal{S}_{24} : 0.0293, 0.0491, 0.0622, 0.0713, 0.0796, 0.0913, 0.0984, 0.1038, 0.1086, 0.1126, 0.1160, 0.1186, 0.1211, 0.1226, 0.1232, 0.1237, 0.1238

 $\mathcal{S}_{25}\colon 1.2848,\ 2.4932,\ 3.6658,\ 4.7548,\ 5.7596,\ 6.6288,\ 7.3437,\ 7.9768,\ 8.5057,\ 8.9095,\ 9.3065,\ 9.6692,\ 10.0263,\ 10.3779,\ 10.7749,\ 11.0891,\ 11.3993,\ 11.7949,\ 12.0948,\ 12.3904,\ 12.6803,\ 12.9651,\ 13.2457,\ 13.5216,\ 13.7930,\ 14.0599,\ 14.3231,\ 14.5812,\ 14.8348,\ 15.0840,\ 15.3287,\ 15.5690,\ 15.8073,\ 16.0387,\ 16.2655,\ 16.4881,\ 16.7060,\ 16.9194,\ 17.1283,\ 17.3327,\ 17.5327,\ 17.7280,\ 17.9188,\ 18.1050,\ 18.2867,\ 18.4344,\ 18.5796,\ 18.7222,\ 18.8621,\ 18.9997,\ 19.1347,\ 19.2671,\ 19.3968,\ 19.5241,\ 19.6487,\ 19.7708,\ 19.8903,\ 20.0072,\ 20.1215,\ 20.2334,\ 20.3426,\ 20.4492,\ 20.5533,\ 20.6548,\ 20.7537,\ 20.8500,\ 20.9437,\ 21.0349,\ 21.1235,\ 21.2095,\ 21.2929,\ 21.3736,\ 21.4518,\ 21.5273,\ 21.6002,\ 21.6706,\ 21.7383,\ 21.8035,\ 21.8660,\ 21.9259,\ 21.9833,\ 22.0380,\ 22.0901,\ 22.1396,\ 22.1865,\ 22.2307,\ 22.2723,\ 22.3113,\ 22.3477,\ 22.3815,\ 22.4126,\ 22.4411,\ 22.4670,\ 22.4902,\ 22.5108,\ 22.5288,\ 22.5400,\ 22.5502,\ 22.5549,\ \mathcal{S}_{26}\colon\ 3.3623,\ 3.8165,\ 3.9018,\ 3.9339,\ 3.9454,\ 3.9513,\ 3.9563,\ 3.9594,\ 3.9615,\ 3.9620$

 \mathcal{S}_{27} : 0.4400, 0.6170, 0.7171, 0.7807, 0.8229, 0.8462, 0.8637, 0.8754, 0.8817, 0.8853, 0.8873, 0.8878

 S_{28} : 14.3927, 19.7917, 22.6283, 23.9404, 24.5570, 24.8224, 24.9380, 25.0118, 25.0643, 25.0975, 25.1161, 25.1302, 25.1430, 25.1564, 25.1586

 S_{29} : 3.2282, 4.7252, 5.3581, 5.6452, 5.8109, 5.8786, 5.9081, 5.9191, 5.9222

 S_{30} : 2.3742, 3.3614, 3.8224, 4.0232, 4.1435, 4.1981, 4.2209, 4.2336, 4.2390, 4.2395

 S_{31} : 25.1492, 42.4289, 54.9163, 63.8733, 68.8608, 72.6918, 75.5811, 77.6775, 78.7513, 79.7971, 80.6224, 81.2676, 81.7944, 82.3899, 82.8346, 83.2483, 83.5537, 83.7634, 83.9042, 84.0120, 84.0927, 84.1468, 84.1825, 84.2145, 84.2426, 84.2703, 84.2890, 84.3015, 84.3054

 \mathcal{S}_{32} : 153.0957, 201.0579, 218.7986, 228.0523, 233.1286, 235.5030, 237.1574, 238.1448, 238.8023, 239.3401, 239.6719, 239.9191, 240.1302, 240.2296, 240.3084, 240.3205

 S_{33} : 30.5935, 33.3866, 33.7117, 33.7607, 33.7772, 33.7830, 33.7846

 S_{34} : 35.2755, 49.8249, 56.3072, 59.4785, 60.7809, 61.5248, 61.9220, 62.0839, 62.2000, 62.2684, 62.3323, 62.3854, 62.4366, 62.4858, 62.5332, 62.5786, 62.6222, 62.6638, 62.7036, 62.7414, 62.7773, 62.8113, 62.8434, 62.8736, 62.9018, 62.9283, 62.9527, 62.9753, 62.9960, 63.0147, 63.0316, 63.0350

 \mathcal{S}_{35} : 11.1864, 18.6450, 25.2162, 30.2752, 34.5965, 37.7022, 39.9603, 41.6999, 43.2768, 44.5033, 45.5958, 46.3288, 47.0194, 47.6085, 48.0775, 48.5595, 48.9848, 49.3524, 49.6084, 49.8372, 50.0369, 50.2043, 50.3317, 50.4477, 50.5525, 50.6453, 50.7261, 50.7904, 50.8423, 50.8939, 50.9358, 50.9678, 50.9933, 51.0168, 51.0385, 51.0587, 51.0767, 51.0941, 51.0966

 $\mathcal{S}_{36}\colon 15.5974,\ 26.4010,\ 34.2673,\ 41.6620,\ 48.1831,\ 53.9740,\ 60.0339,\ 65.2927,\ 70.4275,\ 75.7401,\ 80.6256,\ 84.9370,\ 89.1388,\ 92.9175,\ 96.2393,\ 100.6009,\ 104.6002,\ 107.8779,\ 110.6553,\ 113.2206,\ 115.6184,\ 117.7884,\ 119.6572,\ 121.1277,\ 122.4974,\ 123.7275,\ 124.6721,\ 125.3627,\ 126.0210,\ 126.4629,\ 126.8797,\ 127.2838,\ 127.5417,\ 127.7382,\ 127.9308,\ 128.1156,\ 128.2947,\ 128.4695,\ 128.6374,\ 128.6612$

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679.8934, 680.1340, 680.3709, 680.6076, 680.8426, 681.0770, 681.3069, 681.5377,
681.7710, 682.0004, 682.2287, 682.4560, 682.6824, 682.9080, 683.1353, 683.3609,
683.5840, 683.8063, 684.0279, 684.2484, 684.4679, 684.6896, 684.9078, 685.1247,
685.3408, 685.5677, 685.7950, 686.0215, 686.2491, 686.4736, 686.6973, 686.9199,
687.1425, 687.3589, 687.5667, 687.7793, 687.9860, 688.1913, 688.3970, 688.6040,
688.8075, 689.0093, 689.2112, 689.4161, 689.6171, 689.8163, 690.0142, 690.2109,
690.4066, 690.6026, 690.7972, 690.9920, 691.1847, 691.3763, 691.5674, 691.7567,
691.9454, 692.1331, 692.3200, 692.5084, 692.6937, 692.8788, 693.0630, 693.2466,
693.4283, 693.6092, 693.7892, 693.9714, 694.1499, 694.3273, 694.5036, 694.6793,
694.8550, 695.0311, 695.2052, 695.3796, 695.5560, 695.7292, 695.9020, 696.0736,
696.2441, 696.4138, 696.5826, 696.7506, 696.9179, 697.0914, 697.2657, 697.4381,
697.6033, 697.7660, 697.9874, 698.1750, 698.3512, 698.5263, 698.7005, 698.8735,
699.0455, 699.2153, 699.3862, 699.5562, 699.7251, 699.8930, 700.0600, 700.2259,
700.3909, 700.5550, 700.7184, 700.8805, 701.0407, 701.2007, 701.3576, 701.5125,
701.6640, 701.8151, 701.9669, 702.1176, 702.2666, 702.4113, 702.5557, 702.7012,
702.8460, 702.9911, 703.1343, 703.2770, 703.4196, 703.5611, 703.7017, 703.8413,
703.9799, 704.1174, 704.2524, 704.3813, 704.5093, 704.6354, 704.7589, 704.8823,
705.0020, 705.1177, 705.2324, 705.3462, 705.4593, 705.5713, 705.6824, 705.7926,
705.9019, 706.0106, 706.1195, 706.2311, 706.3378, 706.4485, 706.5587, 706.6694,
706.7790, 706.8876, 706.9935, 707.0988, 707.2032, 707.3066, 707.4087, 707.4428
   S_{38}: 107.2255, 108.6407, 108.8885, 109.0394
```

 $\mathcal{S}_{39}\colon 170.0408,\ 269.1613,\ 340.3796,\ 395.4240,\ 433.2746,\ 467.8119,\ 492.9459,\\ 511.4818,\ 528.6376,\ 543.2314,\ 554.2380,\ 564.2112,\ 573.3909,\ 580.9917,\ 587.0130,\\ 591.8260,\ 596.6626,\ 600.6978,\ 604.2113,\ 607.3338,\ 610.0552,\ 612.9271,\ 615.6003,\\ 618.1542,\ 620.6433,\ 622.1930,\ 623.5757,\ 624.9314,\ 626.2564,\ 627.5778,\ 628.8867,\\ 630.3396,\ 631.5500,\ 632.6421,\ 633.7126,\ 634.9341,\ 636.1033,\ 637.1603,\ 638.1636,\\ 638.9765,\ 639.8029,\ 640.6150,\ 641.3905,\ 642.3556,\ 643.3123,\ 644.1551,\ 644.9523,$

645.6327, 646.3094, 646.9770, 647.6981, 648.6576, 649.3963, 649.9939, 650.5106, 651.0255, 651.5400, 652.0514, 652.6382, 653.2346, 653.7600, 654.3529, 655.0619, 655.6314, 656.1112, 656.5882, 656.6593

 \mathcal{S}_{40} : 144.8071, 203.5979, 230.6923, 243.2056, 248.4747, 250.5133, 251.5861, 252.2128, 252.5334, 252.7727, 252.9300, 252.9951, 253.0272, 253.0491, 253.0558

 \mathcal{S}_{41} : 104.3352, 143.9971, 162.6928, 174.4729, 181.1883, 185.4110, 188.0655, 189.8748, 191.1746, 192.0823, 192.6225, 192.9482, 193.2015, 193.3560, 193.4401, 193.4804, 193.5180, 193.5531, 193.5861, 193.5933

 S_{42} : 0.2544, 0.3268, 0.3490, 0.3646, 0.3773, 0.3870, 0.3937, 0.3975, 0.3979

 S_{43} : 32.1521, 37.5850, 38.4947, 38.6403, 38.6569, 38.6586

 $\mathcal{S}_{44}\colon 124.6057,\ 206.1989,\ 258.6179,\ 292.3406,\ 318.4573,\ 338.8340,\ 357.6794,\ 372.6274,\ 384.0906,\ 392.8428,\ 399.7534,\ 405.2201,\ 410.2681,\ 414.1381,\ 417.5244,\ 421.0558,\ 423.5546,\ 426.0039,\ 428.3116,\ 430.3889,\ 432.4392,\ 434.3951,\ 436.2013,\ 437.9293,\ 439.6121,\ 441.4132,\ 443.4237,\ 444.9808,\ 446.5019,\ 447.8638,\ 449.1986,\ 452.2697,\ 455.0118,\ 456.8946,\ 458.0750,\ 459.1645,\ 460.2211,\ 461.2608,\ 462.2504,\ 463.2032,\ 463.9739,\ 464.8663,\ 465.6153,\ 467.9212,\ 469.0643,\ 469.9781,\ 470.6567,\ 471.7226,\ 472.3642,\ 472.7605,\ 473.0732,\ 473.2894,\ 473.4241,\ 473.5281,\ 473.6399,\ 473.7013,\ 473.7470,\ 473.7977,\ 473.8341,\ 473.8433$

 S_{45} : 5.3013, 6.4968, 6.7520, 6.8139, 6.8341, 6.8433, 6.8486, 6.8498

 \mathcal{S}_{46} : 1.3324, 1.5251, 1.5718, 1.5879, 1.5966, 1.6028, 1.6061, 1.6083, 1.6101, 1.6105

 \mathcal{S}_{47} : 16.7634, 19.2322, 19.7944, 19.9584, 20.0395, 20.0865, 20.1120, 20.1263, 20.1347, 20.1358

 S_{48} : 0.0357, 0.0389, 0.0402, 0.0408, 0.0409

 S_{49} : 5.0685, 5.9322, 6.1436, 6.2371, 6.2910, 6.3265, 6.3305

 \mathcal{S}_{50} : 0.0324, 0.0384, 0.0421, 0.0445, 0.0461, 0.0475, 0.0487, 0.0494, 0.0499, 0.0504, 0.0507, 0.0510, 0.0511

 $\mathcal{S}_{51}\colon 158.8808,\ 226.7898,\ 251.1181,\ 263.5170,\ 269.9064,\ 274.0632,\ 277.4902,\ 278.7852,\ 279.6021,\ 280.2806,\ 280.8869,\ 281.3841,\ 281.7918,\ 282.1305,\ 282.4393,\ 282.6943,\ 282.9340,\ 283.1573,\ 283.3642,\ 283.5355,\ 283.6996,\ 283.8574,\ 284.0081,\ 284.1513,\ 284.2876,\ 284.4169,\ 284.5390,\ 284.6540,\ 284.7621,\ 284.8636,\ 284.9578,\ 285.0448,\ 285.1248,\ 285.1981,\ 285.2642,\ 285.3231,\ 285.3326$

 \mathcal{S}_{52} : 73.3657, 91.7328, 101.4404, 105.6360, 107.8175, 108.9070, 109.4403, 109.8443, 110.1497, 110.3997, 110.5926, 110.7068, 110.7226

 S_{53} : 127.0540, 160.7026, 170.2230, 174.6740, 176.7825, 177.8830, 178.3794, 178.7296, 179.0247, 179.3085, 179.5785, 179.6359

 $\mathcal{S}_{54}\colon 18629.9575, 26164.9477, 29666.8708, 31544.4487, 32638.3881, 33301.2351, \\ 33731.4472, 34037.6406, 34249.1801, 34409.8976, 34524.7132, 34605.2745, 34670.0246, \\ 34715.0275, 34745.2676, 34768.3418, 34791.8894, 34806.0601, 34819.4267, 34830.8051, \\ 34840.4087, 34848.9924, 34856.1130, 34862.9495, 34870.0042, 34876.7258, 34881.2885, \\ 34885.2692, 34888.2113, 34891.1196, 34893.9887, 34896.7631, 34899.6016, 34902.3937, \\ 34905.1476, 34907.8593, 34910.5324, 34913.1689, 34915.7624, 34917.9242, 34920.0729, \\ 34922.1959, 34924.1856, 34926.1803, 34928.1149, 34929.9520, 34931.9469, 34933.8678, \\ 34935.8375, 34937.8476, 34939.8260, 34941.7851, 34942.1603$

 \mathcal{S}_{55} : 22606.1087, 32392.2527, 37798.7516, 41072.2083, 43149.7641, 44582.6927, 45635.4961, 46379.6898, 46950.6157, 47434.4500, 47794.4936, 48078.7050, 48309.3621,

 $48487.6458, 48648.9305, 48781.0347, 48892.7630, 48990.4820, 49059.3434, 49109.6972, \\ 49155.4801, 49194.7795, 49224.1893, 49246.9715, 49264.0911, 49277.8622, 49293.3403, \\ 49303.9250, 49311.6324, 49318.4052, 49324.9033, 49330.0864, 49333.6698, 49337.0947, \\ 49340.8868, 49343.2418, 49346.0084, 49349.1518, 49352.2206, 49355.6237, 49358.1288, \\ 49360.5859, 49363.0011, 49365.7545, 49368.4367, 49371.0541, 49373.2324, 49375.3677, \\ 49377.4810, 49379.5384, 49381.5582, 49383.1409, 49384.7205, 49386.2954, 49387.8504, \\ 49389.3883, 49390.9068, 49392.3923, 49393.8761, 49395.2923, 49396.7237, 49398.1487, \\ 49399.5540, 49399.8693$

From the data, we can see that along with the increase of the iteration number, the time cost also increases, indicating that the iteration number contributes much to the time cost. Therefore, it also supports our proposal to reduce iteration number to improve the efficiency.

3 Comparison with GA

3.1 Comparison based on adjacency list

Since adjacency list is more efficient than adjacency matrix as the algorithm input, we take adjacency list as input in the paper. Please refer to Section 6, 7, and 8 for the experimental results, interpretations, and analyses.

3.2 Comparison based on adjacency matrix

In this section, we present the results based on adjacency matrix, which is missing from the paper due to the space limit. Because the input format does not have any impact on the effectiveness of our algorithm, we only present the efficiency comparison results here.

We first compare the efficiency of GA-first, GA, and AGA, which is shown in Table 3. Each row represents a project and we report the running time of GA-first, GA, and AGA. Similar to the results in the paper, AGA, which has a much lower time complexity than GA, could reduce the time cost promisingly. The average speedup ratio of AGA over GA is 27.72X. Then, following the paper, we divide the projects into small-size projects, middle-size projects, and large-size projects. The average speedup ratio in the three categories is 5.84X, 35.47X, and 51.59X, respectively. Indeed, as adjacency matrix stores much more redundant information than adjacency list, it originally leads to very long running time. Therefore, the improvement that our approach achieves is larger, too. At the same time, on larger projects, the efficiency problem is more severe, and our AGA approach works better.

Then, we compare the efficiency of GA and AGA on industrial projects, which is shown in Table 4. Each row represents a project and we report the running time of GA and AGA. Similar to the results in the paper, AGA could reduce the time cost to a greater extent. The average speedup ratio of AGA over GA is 61.43X. This indicates that AGA is practical in real-world scenarios.

Table 3: Comparison of GA-first, GA, and AGA

| ID | GA-first | GA | AGA |
|----------------------|-------------------|---------------------|------------------|
| S_1 | 0.0504 | 0.0841 | 0.0202 |
| \mathcal{S}_2 | 0.0116 | 0.0163 | 0.0053 |
| S_3 | 0.0379 | 0.0550 | 0.0554 |
| \mathcal{S}_4 | 0.1880 | 0.2045 | 0.0409 |
| S_5 | 0.0843 | 0.0843 | 0.0221 |
| \mathcal{S}_6 | 0.1394 | 0.1394 | 0.0162 |
| \mathcal{S}_7 | 0.0809 | 0.1156 | 0.0330 |
| \mathcal{S}_8 | 0.0237 | 0.0344 | 0.0172 |
| \mathcal{S}_9 | 14.6908 | 17.2855 | 0.6349 |
| \mathcal{S}_{10} | 0.3590 | 0.5985 | 0.0959 |
| S_{11} | 0.0641 | 0.1001 | 0.0576 |
| S_{12} | 0.1331 | 0.2149 | 0.0500 |
| S_{13} | 0.1964 | 0.3370 | 0.1239 |
| \mathcal{S}_{14} | 0.8414 | 1.9135 | 0.2088 |
| S_{15} | 0.0675 | 0.0675 | 0.0137 |
| \mathcal{S}_{16} | 0.3380 | 0.3456 | 0.0624 |
| S_{17} | 1.9914 | 4.1976 | 0.3048 |
| \mathcal{S}_{18} | 0.1527 | 0.1707 | 0.0665 |
| S_{19} | 2.3863 | 3.8666 | 0.7790 |
| S_{20} | 0.0271 | 0.0285 | 0.0422 |
| S_{21} | 0.8340 | 1.2143 | 0.1791 |
| S_{22} | 0.5849 | 1.0029 | 0.1397 |
| S_{23} | 4.7146 | 7.3944 | 0.5435 |
| S_{24} | 0.0293 | 0.1238 | 0.0294 |
| S_{25} | 1.2848 | 22.5549 | 1.0829 |
| S_{26} | 3.3623 | 3.9620 | 0.3757 |
| S_{27} | 0.4400 | 0.8878 | 0.1694 |
| S_{28} | 14.3927 | 25.1586 | 1.1161 |
| S_{29} | 3.2282 | 5.9222 | 2.2661 |
| S_{30} | 2.3742 | 4.2395 | 0.5081 |
| S_{31} | 25.1492 | 84.3054 | 2.0649 |
| S_{32} | 153.0957 | 240.3205 33.7846 | 5.1724 1.6924 |
| S_{33} | 30.5935 | ! | |
| S_{34} | 35.2755 11.1864 | 63.0350 51.0966 | 2.5955 1.7078 |
| S_{35} S_{36} | 15.5974 | 128.6612 | 19.3547 |
| S_{37} | 348.6429 | 707.4428 | 4.0359 |
| S_{38} | 107.2255 | 109.0394 | 2.1855 |
| S_{39} | 170.0408 | 656.6593 | 8.0072 |
| S_{40} | 144.8071 | 253.0558 | 4.3282 |
| S_{41} | 104.3352 | 193.5933 | 3.6620 |
| S_{42} | 0.2544 | 0.3979 | 0.2295 |
| S_{43} | 32.1521 | 38.6586 | 2.1432 |
| S_{44} | 124.6057 | 473.8433 | 7.2152 |
| S_{45} | 5.3013 | 6.8498 | 1.0659 |
| S_{46} | 1.3324 | 1.6105 | 0.2034 |
| S_{47} | 16.7634 | 20.1358 | 2.0280 |
| S_{48} | 0.0357 | 0.0409 | 0.0142 |
| S_{49} | 5.0685 | 6.3305 | 1.1091 |
| S_{50} | 0.0324 | 0.0511 | 0.0162 |
| S_{51} | 158.8808 | 285.3326 | 7.5062 |
| S_{52} | 73.3657 | 110.7226 | 6.8312 |
| S_{53} | 127.0540 | 179.6359 | 9.7006 |
| | ,629.9575 | 34,942.1603 | 154.0668 |
| S_{55} 22 | ,606.1087 | 49,399.8693 | 164.2763 |

Table 4: Comparison of GA and AGA on industrial projects

| ID | GA | AGA |
|--------------------|-------------|----------|
| \mathcal{I}_1 | 39,386.9529 | 705.3581 |
| \mathcal{I}_2 | 8,707.1104 | 141.0114 |
| \mathcal{I}_3 | 8,644.5796 | 112.5054 |
| \mathcal{I}_4 | 9,144.3643 | 120.4061 |
| \mathcal{I}_5 | 9,105.5180 | 127.5941 |
| \mathcal{I}_6 | 35,021.6345 | 442.6086 |
| \mathcal{I}_7 | 35,595.7667 | 523.4757 |
| \mathcal{I}_8 | 8,860.3135 | 153.3128 |
| \mathcal{I}_9 | 35,381.6218 | 388.7854 |
| \mathcal{I}_{10} | 9,267.9660 | 146.2093 |
| \mathcal{I}_{11} | 36,558.5647 | 450.7237 |
| \mathcal{I}_{12} | 35,918.4195 | 504.2236 |
| \mathcal{I}_{13} | 35,411.6647 | 487.3465 |
| \mathcal{I}_{14} | 1,278.2732 | 16.7977 |
| \mathcal{I}_{15} | 9,532.4880 | 219.6699 |
| \mathcal{I}_{16} | 4.9463 | 1.6006 |
| \mathcal{I}_{17} | 1,311.8609 | 17.4021 |
| \mathcal{I}_{18} | 12.1753 | 2.0372 |
| \mathcal{I}_{19} | 33,561.6102 | 456.4386 |
| \mathcal{I}_{20} | 1,312.5403 | 18.2663 |
| \mathcal{I}_{21} | 13.6631 | 1.7060 |
| \mathcal{I}_{22} | 34,293.2925 | 503.3268 |