You can view the corresponding table by clicking on its name below.

Appendix2Tab1

Appendix2Tab.2

Appendix2Tab.3

Appendix2Tab1: Error Values, model's normalized scores and normalized Entropy for the Train_Dataof the workstation Conwip2_12_6

| ID | First | Median | Last | AE | SVM | IF | Entropy |
|--------|--------------|--------|--------------|-------|-------|-------|---------|
| PO | Error | Error | Error | Score | Score | Score | |
| 256425 | (h) | (h) | (h) | 0.202 | 0.660 | 0.024 | 0.050 |
| 256425 | 1.9 | 1.9 | 1.9 | 0.383 | 0.669 | 0.824 | 0.959 |
| 256426 | 0.05 | 0.014 | 0.097 | 0.084 | 0.182 | 0.124 | 0.956 |
| 256427 | 0.093 | 0.035 | 0.086 | 0.085 | 0.192 | 0.05 | 0.866 |
| 256428 | 0.094 | 0.099 | 0.01 | 0.092 | 0.279 | 0.071 | 0.83 |
| 256429 | 0.007 | 0.0 | 0.056 | 0.087 | 0.223 | 0.032 | 0.775 |
| 256430 | 0.013 | 0.005 | 0.015 | 0.092 | 0.273 | 0.068 | 0.828 |
| 256431 | 0.7 | 0.7 | 0.7 | 0.079 | 0.293 | 0.532 | 0.811 |
| 257049 | 165.2 | 95.05 | 0.9 | 0.026 | 0.291 | 0.557 | 0.689 |
| 257119 | 93.4 | 49.1 | 1.1 | 0.086 | 0.294 | 0.685 | 0.766 |
| 257120 | 28.6 | 22.4 | 0.055 | 0.064 | 0.098 | 0.305 | 0.799 |
| 257137 | 407.55 | 243.2 | 0.073 | 0.016 | 0.172 | 0.386 | 0.663 |
| 257192 | 448.15 | 264.3 | 0.068 | 0.031 | 0.154 | 0.275 | 0.777 |
| 257193 | 312.15 | 216.9 | 0.044 | 0.008 | 0.293 | 0.374 | 0.677 |
| 257197 | 675.3 | 339.3 | 2.8 | 1.0 | 1.0 | 1.0 | 1.0 |
| 257200 | 674.2 | 338.2 | 1.2 | 0.256 | 0.731 | 0.91 | 0.901 |
| 257257 | 428.55 | 264.2 | 0.099 | 0.026 | 0.154 | 0.338 | 0.718 |
| 257258 | 425.05 | 263.0 | 0.04 | 0.029 | 0.184 | 0.194 | 0.82 |
| 257259 | 425.05 | 263.0 | 0.068 | 0.027 | 0.168 | 0.211 | 0.806 |
| 257260 | 424.05 | 260.5 | 0.031 | 0.028 | 0.189 | 0.218 | 0.807 |
| 257261 | 401.05 | 260.5 | 0.049 | 0.025 | 0.205 | 0.231 | 0.787 |
| 257262 | 544.45 | 310.2 | 0.022 | 0.083 | 0.326 | 0.572 | 0.81 |
| 257263 | 502.05 | 289.7 | 0.004 | 0.06 | 0.237 | 0.465 | 0.787 |
| 257264 | 401.15 | 260.6 | 0.024 | 0.027 | 0.222 | 0.245 | 0.789 |
| 257450 | 331.75 | 195.2 | 0.022 | 0.005 | 0.276 | 0.33 | 0.664 |
| 257453 | 311.4 | 191.3 | 0.022 | 0.004 | 0.285 | 0.316 | 0.664 |
| 257536 | 166.4 | 95.05 | 0.9 | 0.025 | 0.293 | 0.561 | 0.688 |
| 257538 | 125.9 | 98.4 | 0.024 | 0.016 | 0.126 | 0.496 | 0.554 |
| 257653 | 5.2 | 0.05 | 0.053 | 0.086 | 0.214 | 0.022 | 0.732 |
| 257654 | 0.081 | 0.066 | 0.054 | 0.088 | 0.225 | 0.001 | 0.558 |
| 257655 | 2.7 | 0.06 | 0.043 | 0.088 | 0.232 | 0.033 | 0.768 |
| ID | First | Median | Last | AE | SVM | IF | Entropy |
| PO | Error | Error | Error | Score | Score | Score | |
| 257656 | (h) 0.049 | (h) | (h) 0.001 | 0.093 | 0.292 | 0.079 | 0.833 |
| 257657 | | 0.056 | | | | | 0.833 |
| | 4.0 | 0.024 | 0.014 | 0.09 | 0.266 | 0.056 | |
| 257658 | 0.048 | 0.071 | 0.083 | 0.085 | 0.194 | 0.042 | 0.839 |
| 257659 | 9.1 | 4.6 | 0.07 | 0.08 | 0.169 | 0.189 | 0.947 |
| 257660 | 5.6 | 0.071 | 0.002 | 0.091 | 0.278 | 0.111 | 0.883 |

| 257661 | | | | | | | | |
|---|--------|--------|--------|-------|-------|---------|--------|---------|
| 257663 | 257661 | 0.007 | 0.006 | 0.026 | 0.09 | 0.26 | 0.063 | 0.83 |
| 257664 3.1 0.048 0.039 0.088 0.235 0.029 0.749 | 257662 | 3.1 | 0.019 | 0.031 | 0.089 | 0.246 | 0.056 | 0.827 |
| 257665 | 257663 | 0.007 | 0.052 | 0.047 | 0.088 | 0.234 | 0.004 | 0.586 |
| 257666 9.4 4.9 0.047 0.082 0.194 0.214 0.935 | 257664 | 3.1 | 0.048 | 0.039 | 0.088 | 0.235 | 0.029 | 0.749 |
| 257680 5.3 0.04 0.089 0.083 0.177 0.09 0.943 257681 4.4 0.036 0.053 0.086 0.216 0.015 0.693 257713 0.014 0.059 0.007 0.092 0.283 0.038 0.742 257714 54.45 3.7 0.09 0.066 0.095 0.285 0.818 257715 0.95 0.089 0.013 0.091 0.274 0.07 0.832 257716 0.064 0.057 0.059 0.087 0.22 0.0 0.543 257717 69.95 2.4 0.085 0.064 0.107 0.298 0.816 257718 96.1 4.9 0.073 0.058 0.128 0.328 0.799 257719 30.05 27.5 0.048 0.061 0.096 0.282 0.811 257720 107.55 35.1 0.092 0.036 0.004 0.359 0.321 257 | 257665 | 0.058 | 0.084 | 0.049 | 0.088 | 0.231 | 0.02 | 0.709 |
| 257681 | 257666 | 9.4 | 4.9 | 0.047 | 0.082 | 0.194 | 0.214 | 0.935 |
| 257713 | 257680 | 5.3 | 0.04 | 0.089 | 0.083 | 0.177 | 0.09 | 0.943 |
| 257714 | 257681 | 4.4 | 0.036 | 0.053 | 0.086 | 0.216 | 0.015 | 0.693 |
| 257715 | 257713 | 0.014 | 0.059 | 0.007 | 0.092 | 0.283 | 0.038 | 0.742 |
| 257716 0.064 0.057 0.059 0.087 0.22 0.0 0.543 257717 69.95 2.4 0.085 0.064 0.107 0.298 0.816 257718 96.1 4.9 0.073 0.058 0.128 0.328 0.799 257719 30.05 27.5 0.048 0.061 0.096 0.282 0.811 257720 107.55 35.1 0.092 0.036 0.004 0.359 0.321 257721 55.3 32.5 0.095 0.047 0.0 0.357 0.329 257722 29.8 27.5 0.041 0.062 0.105 0.303 0.805 257723 122.65 33.8 0.063 0.036 0.062 0.363 0.599 257724 151.5 58.1 0.084 0.02 0.035 0.445 0.384 257726 287.25 171.9 0.022 0.003 0.287 0.366 0.646 <td< td=""><td>257714</td><td>54.45</td><td>3.7</td><td>0.09</td><td>0.066</td><td>0.095</td><td>0.285</td><td>0.818</td></td<> | 257714 | 54.45 | 3.7 | 0.09 | 0.066 | 0.095 | 0.285 | 0.818 |
| 257717 69.95 2.4 0.085 0.064 0.107 0.298 0.816 257718 96.1 4.9 0.073 0.058 0.128 0.328 0.799 257719 30.05 27.5 0.048 0.061 0.096 0.282 0.811 257720 107.55 35.1 0.092 0.036 0.004 0.359 0.321 257721 55.3 32.5 0.095 0.047 0.0 0.357 0.329 257722 29.8 27.5 0.041 0.062 0.105 0.303 0.805 257723 122.65 33.8 0.063 0.036 0.062 0.363 0.599 257724 151.5 58.1 0.084 0.02 0.035 0.445 0.384 257726 287.25 171.9 0.022 0.003 0.287 0.366 0.646 257727 263.35 153.8 0.057 0.0 0.238 0.428 0.593 < | 257715 | 0.95 | 0.089 | 0.013 | 0.091 | 0.274 | 0.07 | 0.832 |
| 257718 96.1 4.9 0.073 0.058 0.128 0.328 0.799 257719 30.05 27.5 0.048 0.061 0.096 0.282 0.811 257720 107.55 35.1 0.092 0.036 0.004 0.359 0.321 257721 55.3 32.5 0.095 0.047 0.0 0.357 0.329 257722 29.8 27.5 0.041 0.062 0.105 0.303 0.805 257723 122.65 33.8 0.063 0.036 0.062 0.363 0.599 257724 151.5 58.1 0.084 0.02 0.035 0.445 0.384 257726 287.25 171.9 0.022 0.003 0.287 0.366 0.646 257727 263.35 153.8 0.057 0.0 0.238 0.428 0.593 257728 263.35 153.8 0.007 0.004 0.293 0.462 0.651 | 257716 | 0.064 | 0.057 | 0.059 | 0.087 | 0.22 | 0.0 | 0.543 |
| 257719 | 257717 | 69.95 | 2.4 | 0.085 | 0.064 | 0.107 | 0.298 | 0.816 |
| 257720 107.55 35.1 0.092 0.036 0.004 0.359 0.321 257721 55.3 32.5 0.095 0.047 0.0 0.357 0.329 257722 29.8 27.5 0.041 0.062 0.105 0.303 0.805 257723 122.65 33.8 0.063 0.036 0.062 0.363 0.599 257724 151.5 58.1 0.084 0.02 0.035 0.445 0.384 257726 287.25 171.9 0.022 0.003 0.287 0.366 0.646 257727 263.35 153.8 0.057 0.0 0.238 0.428 0.593 257728 263.35 153.8 0.007 0.004 0.293 0.433 0.64 257729 365.4 195.2 0.003 0.007 0.292 0.462 0.651 257895 425.15 261.8 0.098 0.024 0.187 0.334 0.786 | 257718 | 96.1 | 4.9 | 0.073 | 0.058 | 0.128 | 0.328 | 0.799 |
| 257721 55.3 32.5 0.095 0.047 0.0 0.357 0.329 257722 29.8 27.5 0.041 0.062 0.105 0.303 0.805 257723 122.65 33.8 0.063 0.036 0.062 0.363 0.599 257724 151.5 58.1 0.084 0.02 0.035 0.445 0.384 257726 287.25 171.9 0.022 0.003 0.287 0.366 0.646 257727 263.35 153.8 0.057 0.0 0.238 0.428 0.593 257728 263.35 153.8 0.007 0.004 0.293 0.433 0.64 257729 365.4 195.2 0.003 0.007 0.292 0.462 0.651 257730 461.4 271.45 0.021 0.04 0.187 0.334 0.786 257897 481.15 310.3 0.054 0.065 0.255 0.464 0.803 | 257719 | 30.05 | 27.5 | 0.048 | 0.061 | 0.096 | 0.282 | 0.811 |
| 257722 29.8 27.5 0.041 0.062 0.105 0.303 0.805 257723 122.65 33.8 0.063 0.036 0.062 0.363 0.599 257724 151.5 58.1 0.084 0.02 0.035 0.445 0.384 257726 287.25 171.9 0.022 0.003 0.287 0.366 0.646 257727 263.35 153.8 0.057 0.0 0.238 0.428 0.593 257728 263.35 153.8 0.007 0.004 0.293 0.433 0.64 257729 365.4 195.2 0.003 0.007 0.292 0.462 0.651 257730 461.4 271.45 0.021 0.04 0.187 0.334 0.786 257895 425.15 261.8 0.098 0.024 0.155 0.323 0.722 257898 503.3 289.8 0.054 0.056 0.199 0.416 0.787 <tr< td=""><td>257720</td><td>107.55</td><td>35.1</td><td>0.092</td><td>0.036</td><td>0.004</td><td>0.359</td><td>0.321</td></tr<> | 257720 | 107.55 | 35.1 | 0.092 | 0.036 | 0.004 | 0.359 | 0.321 |
| 257723 | 257721 | 55.3 | 32.5 | 0.095 | 0.047 | 0.0 | 0.357 | 0.329 |
| 257724 151.5 58.1 0.084 0.02 0.035 0.445 0.384 257726 287.25 171.9 0.022 0.003 0.287 0.366 0.646 257727 263.35 153.8 0.057 0.0 0.238 0.428 0.593 257728 263.35 153.8 0.007 0.004 0.293 0.433 0.64 257729 365.4 195.2 0.003 0.007 0.292 0.462 0.651 257730 461.4 271.45 0.021 0.04 0.187 0.334 0.786 257895 425.15 261.8 0.098 0.024 0.155 0.323 0.722 257897 481.15 310.3 0.054 0.065 0.255 0.464 0.803 257898 503.3 289.8 0.054 0.056 0.199 0.416 0.787 ID First Error Error (h) Error Error Score Score Score Score Score Score Score 0.0443 <td< td=""><td>257722</td><td>29.8</td><td>27.5</td><td>0.041</td><td>0.062</td><td>0.105</td><td>0.303</td><td>0.805</td></td<> | 257722 | 29.8 | 27.5 | 0.041 | 0.062 | 0.105 | 0.303 | 0.805 |
| 257726 287.25 171.9 0.022 0.003 0.287 0.366 0.646 257727 263.35 153.8 0.057 0.0 0.238 0.428 0.593 257728 263.35 153.8 0.007 0.004 0.293 0.433 0.64 257729 365.4 195.2 0.003 0.007 0.292 0.462 0.651 257730 461.4 271.45 0.021 0.04 0.187 0.334 0.786 257895 425.15 261.8 0.098 0.024 0.155 0.323 0.722 257897 481.15 310.3 0.054 0.065 0.255 0.464 0.803 257898 503.3 289.8 0.054 0.056 0.199 0.416 0.787 ID First Error Error (h) Error Error Score Score Score Score Score Score Score Score Score Score Score Score 0.635 258108 26.95 0.055 0.066 0.078 0.162 < | 257723 | 122.65 | 33.8 | 0.063 | 0.036 | 0.062 | 0.363 | 0.599 |
| 257727 263.35 153.8 0.057 0.0 0.238 0.428 0.593 257728 263.35 153.8 0.007 0.004 0.293 0.433 0.64 257729 365.4 195.2 0.003 0.007 0.292 0.462 0.651 257730 461.4 271.45 0.021 0.04 0.187 0.334 0.786 257895 425.15 261.8 0.098 0.024 0.155 0.323 0.722 257897 481.15 310.3 0.054 0.065 0.255 0.464 0.803 257898 503.3 289.8 0.054 0.056 0.199 0.416 0.787 ID First Error Error (h) Error Error Score (h) Score Score Score Score Score Score Score (h) 0.043 0.635 258090 164.85 141.85 0.053 0.008 0.23 0.443 0.635 258108 26.95 0.055 0.066 0.078 0.162 0.148 0 | 257724 | 151.5 | 58.1 | 0.084 | 0.02 | 0.035 | 0.445 | 0.384 |
| 257728 263.35 153.8 0.007 0.004 0.293 0.433 0.64 257729 365.4 195.2 0.003 0.007 0.292 0.462 0.651 257730 461.4 271.45 0.021 0.04 0.187 0.334 0.786 257895 425.15 261.8 0.098 0.024 0.155 0.323 0.722 257897 481.15 310.3 0.054 0.065 0.255 0.464 0.803 257898 503.3 289.8 0.054 0.056 0.199 0.416 0.787 ID First Error Error Error Error Score (h) Score (h) 0.091 0.035 0.0443 0.635 258090 164.85 141.85 0.053 0.008 0.23 0.443 0.635 258108 26.95 0.055 0.066 0.078 0.162 0.148 0.960 Percentile ₉₀ 0.091 0.293 0.547 <td< td=""><td>257726</td><td>287.25</td><td>171.9</td><td>0.022</td><td>0.003</td><td>0.287</td><td>0.366</td><td>0.646</td></td<> | 257726 | 287.25 | 171.9 | 0.022 | 0.003 | 0.287 | 0.366 | 0.646 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 257727 | 263.35 | 153.8 | 0.057 | 0.0 | 0.238 | 0.428 | 0.593 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 257728 | 263.35 | 153.8 | 0.007 | 0.004 | 0.293 | 0.433 | 0.64 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 257729 | 365.4 | 195.2 | 0.003 | 0.007 | 0.292 | 0.462 | 0.651 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 257730 | 461.4 | 271.45 | 0.021 | 0.04 | 0.187 | 0.334 | 0.786 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 257895 | 425.15 | 261.8 | 0.098 | 0.024 | 0.155 | 0.323 | 0.722 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 257897 | 481.15 | 310.3 | 0.054 | 0.065 | 0.255 | 0.464 | 0.803 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 257898 | 503.3 | 289.8 | 0.054 | 0.056 | 0.199 | 0.416 | 0.787 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | Entropy |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | PO | | | | Score | Score | Score | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 258090 | ` ' | ` ′ | ` ′ | 0 008 | 0.23 | 0 443 | 0.635 |
| Percentile ₉₀ 0.091 0.293 0.547 0.921 Percentile _{97.5} 0.959 | | | | | | | | |
| $Percentile_{97.5} 	 0.959$ | | | | 0.000 | | | | |
| 1110 | | | 70 | | 0.071 | 1 0.2/0 | 3.2 17 | |
| 0.771 | | | | | | | | 0.997 |

Appendix2Tab.2 : Expert Labels, Error Values, model's normalized scores and normalized Entropy for theOptimization_Data of the workstation Conwip2_12_6

| ID | First | Median | Last | AE | SVM | IF | Entropy | Expert |
|--------|---------|---------|-------|-------|-------|-------|---------|--------|
| PO | Error | Error | Error | Score | Score | Score | | Label |
| | (h) | (h) | (h) | | | | | |
| 257731 | 1804.45 | 870.2 | 7.8 | 0.696 | 1.0 | 1.0 | 0.988 | 1 |
| 257732 | 1801.45 | 870.2 | 7.8 | 0.695 | 1.0 | 1.0 | 0.988 | 1 |
| 257733 | 1777.45 | 870.2 | 4.1 | 0.294 | 0.99 | 1.0 | 0.898 | 1 |
| 257734 | 1777.45 | 852.5 | 6.1 | 0.471 | 1.0 | 1.0 | 0.954 | 1 |
| 257735 | 1877.2 | 873.5 | 9.4 | 0.965 | 1.0 | 1.0 | 1.0 | 1 |
| 257736 | 1976.8 | 945.5 | 9.4 | 1.0 | 1.0 | 1.0 | 1.0 | 1 |
| 258087 | 1751.05 | 846.0 | 3.0 | 0.218 | 1.0 | 1.0 | 0.861 | 0 |
| 258139 | 625.95 | 609.533 | 0.088 | 0.007 | 0.459 | 0.146 | 0.555 | 0 |
| 258140 | 626.15 | 625.733 | 0.028 | 0.01 | 0.584 | 0.101 | 0.443 | 0 |
| 258141 | 579.533 | 563.533 | 0.016 | 0.0 | 0.013 | 0.0 | 0.02 | 0 |
| 258142 | 788.15 | 715.733 | 0.011 | 0.03 | 0.938 | 0.314 | 0.602 | 0 |
| 258143 | 753.2 | 742.867 | 0.018 | 0.034 | 0.959 | 0.267 | 0.577 | 0 |
| 258144 | 765.15 | 748.4 | 0.05 | 0.035 | 0.964 | 0.271 | 0.581 | 0 |
| 258145 | 609.533 | 609.533 | 0.077 | 0.007 | 0.453 | 0.124 | 0.527 | 0 |
| 258146 | 626.15 | 625.733 | 0.097 | 0.01 | 0.57 | 0.183 | 0.56 | 0 |
| 258147 | 648.95 | 632.533 | 0.056 | 0.011 | 0.63 | 0.183 | 0.545 | 0 |
| 258148 | 580.85 | 564.433 | 0.075 | 0.0 | 0.0 | 0.034 | 0.0 | 0 |
| 258149 | 787.533 | 698.867 | 0.046 | 0.027 | 0.913 | 0.279 | 0.581 | 0 |
| 258150 | 704.2 | 646.867 | 0.095 | 0.015 | 0.726 | 0.327 | 0.624 | 0 |
| 258151 | 765.95 | 701.533 | 0.006 | 0.027 | 0.914 | 0.381 | 0.63 | 0 |
| ID | First | Median | Last | AE | SVM | IF | Entropy | Expert |
| PO | Error | Error | Error | Score | Score | Score | | Label |
| | (h) | (h) | (h) | | | | | |
| 258152 | 699.95 | 683.533 | 0.015 | 0.021 | 0.857 | 0.297 | 0.593 | 0 |
| 258153 | 648.533 | 632.533 | 0.043 | 0.011 | 0.632 | 0.182 | 0.544 | 0 |
| 258154 | 564.533 | 580.533 | 0.097 | 0.002 | 0.17 | 0.028 | 0.414 | 0 |

Appendix2Tab.3 : Error Values, model's normalized scores and normalized Entropy for the Test_Data of the workstation Conwip2_12_6

| ID | First | Median | Last | AE | SVM | IF | Entropy | Is |
|--------|---------|---------|-------|-------|-------|-------|---------|----------|
| PO | Error | Error | Error | Score | Score | Score | | Abnormal |
| | (h) | (h) | (h) | | | | | |
| 257319 | 118.35 | 117.933 | 0.021 | 0.073 | 0.012 | 0.161 | 0.713 | 0 |
| 257503 | 164.35 | 163.933 | 0.064 | 0.0 | 0.005 | 0.104 | 0.176 | 0 |
| 257504 | 118.35 | 117.933 | 0.039 | 0.07 | 0.009 | 0.13 | 0.723 | 0 |
| 257980 | 162.333 | 146.333 | 0.082 | 0.011 | 0.0 | 0.098 | 0.304 | 0 |
| 257981 | 146.333 | 146.333 | 0.065 | 0.023 | 0.004 | 0.093 | 0.575 | 0 |
| 258371 | 76.333 | 76.0 | 4.1 | 0.265 | 0.521 | 1.0 | 0.88 | 0 |
| 258372 | 76.333 | 76.333 | 4.1 | 0.264 | 0.521 | 1.0 | 0.88 | 0 |
| 258418 | 240.833 | 224.833 | 6.6 | 1.0 | 1.0 | 0.942 | 1.0 | 1 |
| 258425 | 148.933 | 164.933 | 0.001 | 0.02 | 0.017 | 0.138 | 0.605 | 0 |
| 258426 | 148.933 | 164.933 | 0.034 | 0.014 | 0.012 | 0.052 | 0.782 | 0 |
| 258646 | 47.833 | 47.833 | 0.011 | 0.2 | 0.032 | 0.0 | 0.365 | 0 |