# Supplementary material for the article "Alpha-cut based fuzzy cognitive maps with applications in decision-making" 

DATA AND RESULTS RELATED TO:

## ERP MAINTENANCE RISK MODEL

Table S. 1 Strengths of causal relationships in ERP risk model

| Causalconnection | Sign | Strength of causal relationship |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Crisp | T1 fuzzy | IT2 fuzzy |
| $\mathrm{C}_{1} \rightarrow \mathrm{C}_{2}$ | + | 0.220 | (0,0.06,0.6) | ((0,0.06,0.6;1),(0.005,0.06,0.595;0.8)) |
| $\mathrm{C}_{1} \rightarrow \mathrm{C}_{5}$ | + | 0.257 | $(0,0.07,0.7)$ | ((0,0.07,0.7;1),(0.005,0.07,0.695;0.8)) |
| $\mathrm{C}_{1} \rightarrow \mathrm{C}_{9}$ | + | 0.273 | (0,0.12,0.7) | ((0,0.12,0.7;1),(0.005,0.12,0.695;0.8)) |
| $\mathrm{C}_{1} \rightarrow \mathrm{C}_{10}$ | + | 0.147 | (0,0.04,0.4) | ((0,0.04,0.4;1),(0.005,0.04,0.395;0.8)) |
| $\mathrm{C}_{1} \rightarrow \mathrm{C}_{13}$ | - | 0.086 | (0,0.05,0.208) | ((0,0.05,0.208;1),(0.005,0.05,0.203;0.8)) |
| $\mathrm{C}_{2} \rightarrow \mathrm{C}_{6}$ | + | 0.110 | (0,0.03,0.3) | ((0,0.03,0.3;1),(0.005,0.03,0.295;0.8)) |
| $\mathrm{C}_{2} \rightarrow \mathrm{C}_{11}$ | + | 0.337 | (0,0.01,1) | ((0,0.01,1;1),(0.005,0.01,0.995;0.8)) |
| $\mathrm{C}_{2} \rightarrow \mathrm{C}_{13}$ | - | 0.150 | (0,0.108,0.342) | ((0,0.108,0.342;1),(0.005,0.108,0.337;0.8)) |
| $\mathrm{C}_{3} \rightarrow \mathrm{C}_{4}$ | + | 0.418 | $(0,0.255,1)$ | ((0,0.255,1;1),(0.005,0.255,0.995;0.8)) |
| $\mathrm{C}_{3} \rightarrow \mathrm{C}_{5}$ | + | 0.408 | (0,0.325,0.9) | ((0,0.325,0.9;1),(0.005,0.325,0.895;0.8)) |
| $\mathrm{C}_{3} \rightarrow \mathrm{C}_{6}$ | + | 0.395 | $(0,0.185,1)$ | ((0,0.185,1;1),(0.005,0.185,0.995;0.8)) |
| $\mathrm{C}_{3} \rightarrow \mathrm{C}_{7}$ | + | 0.183 | $(0,0.05,0.5)$ | ((0,0.05,0.5;1),(0.005,0.05,0.495;0.8)) |
| $\mathrm{C}_{4} \rightarrow \mathrm{C}_{3}$ | + | 0.300 | (0,0.15,0.75) | ((0,0.15,0.75;1),(0.005,0.15,0.745;0.8)) |
| $\mathrm{C}_{4} \rightarrow \mathrm{C}_{5}$ | + | 0.268 | (0,0.105,0.7) | ((0,0.105,0.7;1),(0.005,0.105,0.695;0.8)) |
| $\mathrm{C}_{5} \rightarrow \mathrm{C}_{4}$ | + | 0.147 | (0,0.04,0.4) | ((0,0.04,0.4;1),(0.005,0.04,0.395;0.8)) |
| $\mathrm{C}_{5} \rightarrow \mathrm{C}_{6}$ | + | 0.542 | $(0,0.625,1)$ | ((0,0.625,1;1),(0.005,0.625,0.995;0.8)) |
| $\mathrm{C}_{5} \rightarrow \mathrm{C}_{8}$ | + | 0.390 | (0,0.17,1) | ((0,0.17,1;1),(0.005,0.17,0.995;0.8)) |
| $\mathrm{C}_{5} \rightarrow \mathrm{C}_{13}$ | - | 0.050 | $(0,0.018,0.133)$ | ((0,0.018,0.133;1),(0.005,0.018,0.128;0.8)) |
| $\mathrm{C}_{6} \rightarrow \mathrm{C}_{8}$ | + | 0.220 | $(0,0.06,0.6)$ | ((0,0.06,0.6;1),(0.005,0.06,0.595;0.8)) |
| $\mathrm{C}_{6} \rightarrow \mathrm{C}_{13}$ | - | 0.103 | (0,0.109,0.2) | ((0,0.109,0.2;1),(0.005,0.109,0.195;0.8)) |
| $\mathrm{C}_{7} \rightarrow \mathrm{C}_{6}$ | + | 0.240 | (0,0.12,0.6) | ((0,0.12,0.6;1),(0.005,0.12,0.595;0.8)) |
| $\mathrm{C}_{7} \rightarrow \mathrm{C}_{8}$ | + | 0.293 | $(0,0.08,0.8)$ | ((0,0.08,0.8;1),(0.005,0.08,0.795;0.8)) |
| $\mathrm{C}_{7} \rightarrow \mathrm{C}_{13}$ | - | 0.068 | (0,0.038,0.167) | ((0,0.038,0.167;1),(0.005,0.038,0.162;0.8)) |
| $\mathrm{C}_{8} \rightarrow \mathrm{C}_{6}$ | + | 0.203 | $(0,0.11,0.5)$ | ((0,0.11,0.5;1),(0.005,0.11,0.495;0.8)) |
| $\mathrm{C}_{8} \rightarrow \mathrm{C}_{11}$ | + | 0.293 | $(0,0.08,0.8)$ | ((0,0.08,0.8;1),(0.005,0.08,0.795;0.8)) |
| $\mathrm{C}_{8} \rightarrow \mathrm{C}_{13}$ | - | 0.065 | $(0,0.029,0.167)$ | ((0,0.029,0.167;1),(0.005,0.029,0.162;0.8)) |
| $\mathrm{C}_{10} \rightarrow \mathrm{C}_{13}$ | - | 0.036 | (0,0.025,0.083) | ((0,0.025,0.083;1),(0.005,0.025,0.078;0.8)) |
| $\mathrm{C}_{11} \rightarrow \mathrm{C}_{13}$ | - | 0.094 | (0,0.032,0.25) | ((0,0.032,0.25;1),(0.005,0.032,0.245;0.8)) |
| $\mathrm{C}_{12} \rightarrow \mathrm{C}_{2}$ | + | 0.347 | $(0,0.14,0.9)$ | ((0,0.14,0.9;1),(0.005,0.14,0.895;0.8)) |
| $\mathrm{C}_{12} \rightarrow \mathrm{C}_{6}$ | + | 0.360 | $(0,0.28,0.8)$ | ((0,0.28,0.8;1),(0.005,0.28,0.795;0.8)) |
| $\mathrm{C}_{12} \rightarrow \mathrm{C}_{7}$ | + | 0.272 | $(0,0.315,0.5)$ | ((0,0.315,0.5;1),(0.005,0.315,0.495;0.8)) |
| $\mathrm{C}_{12} \rightarrow \mathrm{C}_{8}$ | + | 0.128 | $(0,0.035,0.35)$ | ((0,0.035,0.35;1),(0.005,0.035,0.345;0.8)) |
| $\mathrm{C}_{12} \rightarrow \mathrm{C}_{10}$ | + | 0.073 | (0,0.02,0.2) | ((0,0.02,0.2;1),(0.005,0.02,0.195;0.8)) |
| $\mathrm{C}_{12} \rightarrow \mathrm{C}_{11}$ | + | 0.073 | (0,0.02,0.2) | ((0,0.02,0.2;1),(0.005,0.02,0.195;0.8)) |
| $\mathrm{C}_{12} \rightarrow \mathrm{C}_{13}$ | - | 0.189 | (0,0.134,0.433) | ((0,0.134,0.433;1),(0.005,0.134,0.428;0.8)) |

Table S. 2 Simulation results of ERP risk model with hyperbolic tangent function

|  | Scenario 1 |  |  |  |  | Scenario 2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\lambda$ | Concept | Crisp | T1 fuzzy | IT2 fuzzy | Crisp | T1 fuzzy | IT2 fuzzy |
|  | C1 | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) |
| 1.0 | C2 | 0.265 | (0,0.198,0.346) | $\begin{gathered} ((0,0.198,0.346 ; 1), \\ (0.063,0.198,0.345 ; 0.8)) \end{gathered}$ | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) |
|  | C3 | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) | 0.777 | (0.031,0.625,0.931) | $\begin{aligned} & ((0.031,0.625,0.931 ; 1), \\ & (0.135,0.625,0.93 ; 0.8)) \end{aligned}$ |
|  | C4 | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) | 0.868 | (0.031,0.723,0.98) | $\begin{gathered} ((0.031,0.723,0.98 ; 1), \\ (0.164,0.723,0.98 ; 0.8)) \end{gathered}$ |
|  | C5 | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) | 0.895 | (0.031,0.789,0.987) | $\begin{gathered} ((0.031,0.789,0.987 ; 1), \\ (0.164,0.789,0.987 ; 0.8)) \end{gathered}$ |
|  | C6 | 0.770 | (0,0.612,0.935) | $\begin{gathered} ((0,0.612,0.935 ; 1), \\ (0.164,0.612,0.933 ; 0.8)) \end{gathered}$ | 0.971 | (0,0.932,0.999) | $\begin{gathered} ((0,0.932,0.999 ; 1), \\ (0.208,0.932,0.999 ; 0.8)) \end{gathered}$ |
|  | C7 | 0.245 | (0,0.258,0.287) | $\begin{gathered} ((0,0.258,0.287 ; 1), \\ (0.063,0.258,0.286 ; 0.8)) \end{gathered}$ | 0.672 | (0,0.436, 0.871 ) | $\begin{gathered} ((0,0.436,0.871 ; 1), \\ (0.126,0.436,0.869 ; 0.8)) \end{gathered}$ |
|  | C8 | 0.765 | $(0,0.524,0.94)$ | $\begin{gathered} ((0,0.524,0.94 ; 1), \\ (0.153,0.524,0.939 ; 0.8)) \end{gathered}$ | 0.935 | (0,0.751,0.997) | $\begin{gathered} ((0,0.751,0.997 ; 1), \\ (0.194,0.751,0.997 ; 0.8)) \end{gathered}$ |
|  | C9 | 0.000 | $(0,0,0)$ | $((0,0,0 ; 1),(0,0,0 ; 0.8))$ | 0.000 | $(0,0,0)$ | ( (0,0,0;1),(0,0,0;0.8)) |
|  | C10 | 0.160 | (0,0.104,0.213) | $\begin{gathered} ((0,0.104,0.213 ; 1), \\ (0.063,0.104,0.211 ; 0.8)) \end{gathered}$ | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) |
|  | C11 | 0.809 | (0,0.484, 0.969 ) | $\begin{gathered} ((0,0.484,0.969 ; 1), \\ (0.151,0.484,0.968 ; 0.8)) \end{gathered}$ | 0.786 | (0,0.53, 0.94 ) | $\begin{gathered} ((0,0.53,0.94 ; 1), \\ (0.142,0.53,0.939 ; 0.8)) \end{gathered}$ |
|  | C12 | 0.019 | (0.017,0.018,0.019) | $\begin{gathered} ((0.017,0.018,0.019 ; 1), \\ (0.017,0.018,0.019 ; 0.8)) \end{gathered}$ | 0.000 | $(0,0,0)$ | $\begin{gathered} ((0,0,0 ; 1), \\ (0,0,0 ; 0.8)) \end{gathered}$ |
|  | C13 | -0.784 | (-0.937,-0.661,0) | $\begin{gathered} ((-0.937,-0.661,0 ; 1), \\ (-0.934,-0.661,-0.214 ; 0.8)) \end{gathered}$ | -0.815 | (-0.95,-0.704,0) | $\begin{gathered} ((-0.95,-0.704,0 ; 1), \\ (-0.947,-0.704,-0.23 ; 0.8)) \\ \hline \end{gathered}$ |
| 3.0 | C1 | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) |
|  | C2 | 0.999 | $(0,0.998,1)$ | $\begin{gathered} ((0,0.998,1 ; 1), \\ (0.995,0.998,1 ; 0.8)) \end{gathered}$ | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) |
|  | C3 | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) | 0.999 | (0.995,0.998,1) | $\begin{gathered} ((0.995,0.998,1 ; 1) \\ (0.995,0.998,1 ; 0.8)) \end{gathered}$ |
|  | C4 | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) | 1.000 | (0.995,0.999,1) | $\begin{gathered} ((0.995,0.999,1 ; 1), \\ (0.995,0.999,1 ; 0.8)) \end{gathered}$ |
|  | C5 | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) | 1.000 | (0.995,1,1) | $\begin{aligned} & ((0.995,1,1 ; 1), \\ & (0.995,1,1 ; 0.8)) \end{aligned}$ |
|  | C6 | 1.000 | $(0,1,1)$ | ((0,1,1;1),(0.995,1,1;0.8)) | 1.000 | $(0,1,1)$ | $\begin{gathered} ((0,1,1 ; 1), \\ (0.995,1,1 ; 0.8)) \end{gathered}$ |
|  | C7 | 0.999 | $(0,0.999,1)$ | $\begin{gathered} ((0,0.999,1 ; 1), \\ (0.995,0.999,1 ; 0.8)) \end{gathered}$ | 0.998 | $(0,0.996,1)$ | $\begin{gathered} ((0,0.996,1 ; 1), \\ (0.995,0.996,1 ; 0.8)) \end{gathered}$ |
|  | C8 | 1.000 | $(0,0.998,1)$ | $\begin{gathered} ((0,0.998,1 ; 1), \\ (0.995,0.998,1 ; 0.8)) \end{gathered}$ | 1.000 | $(0,0.999,1)$ | $\begin{gathered} ((0,0.999,1 ; 1), \\ (0.995,0.999,1 ; 0.8)) \end{gathered}$ |
|  | C9 | 0.000 | $(0,0,0)$ | ( (0,0,0;1),(0,0,0;0.8)) | 0.000 | $(0,0,0)$ | ( $(0,0,0 ; 1),(0,0,0 ; 0.8))$ |
|  | C10 | 0.997 | (0,0.995, 0.998$)$ | $\begin{gathered} ((0,0.995,0.998 ; 1), \\ (0.995,0.995,0.998 ; 0.8)) \end{gathered}$ | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) |
|  | C11 | 1.000 | $(0,0.997,1)$ | $\begin{gathered} ((0,0.997,1 ; 1), \\ (0.995,0.997,1 ; 0.8)) \end{gathered}$ | 0.999 | $(0,0.997,1)$ | $\begin{gathered} ((0,0.997,1 ; 1), \\ (0.995,0.997,1 ; 0.8)) \end{gathered}$ |
|  | C12 | 0.995 | (0.995,0.995,0.995) | $\begin{aligned} & ((0.995,0.995,0.995 ; 1), \\ & (0.995,0.995,0.995 ; 0.8)) \end{aligned}$ | 0.000 | $(0,0,0)$ | $((0,0,0 ; 1),(0,0,0 ; 0.8))$ |
|  | C13 | -1.000 | $(-1,-1,0)$ | $\begin{gathered} ((-1,-1,0 ; 1), \\ (-1,-1,-0.996 ; 0.8)) \end{gathered}$ | -0.999 | (-1,-0.999,0) | $\begin{gathered} ((-1,-0.999,0 ; 1), \\ (-1,-0.999,-0.996 ; 0.8)) \end{gathered}$ |
| 5.0 | C1 | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) |
|  | C2 | 1.000 | $(0,1,1)$ | ((0,1,1;1),(1,1,1;0.8)) | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) |
|  | C3 | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) | 1.000 | $(1,1,1)$ | ((1,1,1;1),(1,1,1;0.8)) |
|  | C4 | 0.000 | $(0,0,0)$ | ( (0,0,0;1),(0,0,0;0.8)) | 1.000 | $(1,1,1)$ | ((1,1,1;1),(1,1,1;0.8)) |
|  | C5 | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) | 1.000 | $(1,1,1)$ | ((1,1,1;1),(1,1,1;0.8)) |
|  | C6 | 1.000 | $(0,1,1)$ | ((0,1,1;1),(1,1,1;0.8)) | 1.000 | $(0,1,1)$ | ((0,1,1;1),(1,1,1;0.8)) |
|  | C7 | 1.000 | $(0,1,1)$ | ((0,1,1;1),(1,1,1;0.8)) | 1.000 | $(0,1,1)$ | ((0,1,1;1),(1,1,1;0.8)) |
|  | C8 | 1.000 | $(0,1,1)$ | ((0,1,1;1),(1,1,1;0.8)) | 1.000 | $(0,1,1)$ | ((0,1,1;1),(1,1,1;0.8)) |
|  | C9 | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) |
|  | C10 | 1.000 | $(0,1,1)$ | ((0,1,1;1),(1,1,1;0.8)) | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) |
|  | C11 | 1.000 | $(0,1,1)$ | ((0,1,1;1),(1,1,1;0.8)) | 1.000 | $(0,1,1)$ | ((0,1,1;1),(1,1,1;0.8)) |
|  | C12 | 1.000 | $(1,1,1)$ | ((1,1,1;1),(1,1,1;0.8)) | 0.000 | $(0,0,0)$ | ((0,0,0;1),(0,0,0;0.8)) |
|  | C13 | -1.000 | $(-1,-1,0)$ | ((-1,-1,0;1),(-1,-1,-1;0.8)) | $-1.000$ | $(-1,-1,0)$ | $((-1,-1,0 ; 1),(-1,-1,-1 ; 0.8))$ |

Table S. 3 Simulation results of ERP risk model with sigmoid function

|  | Scenario 1 |  |  |  |  | Scenario 2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\lambda$ | Concept | Crisp | T1 fuzzy | IT2 fuzzy | Crisp | T1 fuzzy | IT2 fuzzy |
| 1.0 | C1 | 0.659 | (0.659,0.659,0.659) | $\begin{aligned} & ((0.659,0.659,0.659 ; 1), \\ & (0.659,0.659,0.659 ; 0.8)) \end{aligned}$ | 0.659 | (0.659,0.659,0.659) | $\begin{aligned} & ((0.659,0.659,0.659 ; 1), \\ & (0.659,0.659,0.659 ; 0.8)) \end{aligned}$ |
|  | C2 | 0.756 | (0.659,0.696,0.864) | $\begin{aligned} & ((0.659,0.696,0.864 ; 1), \\ & (0.661,0.696,0.864 ; 0.8)) \end{aligned}$ | 0.756 | (0.659,0.696,0.864) | $\begin{aligned} & ((0.659,0.696,0.864 ; 1), \\ & (0.661,0.696,0.864 ; 0.8)) \end{aligned}$ |
|  | C3 | 0.721 | (0.659,0.689,0.815) | $\begin{aligned} & ((0.659,0.689,0.815 ; 1), \\ & (0.66,0.689,0.814 ; 0.8)) \end{aligned}$ | 0.721 | (0.659,0.689,0.815) | $\begin{aligned} & ((0.659,0.689,0.815 ; 1), \\ & (0.66,0.689,0.814 ; 0.8)) \end{aligned}$ |
|  | C4 | 0.766 | (0.659,0.715,0.889) | $\begin{aligned} & ((0.659,0.715,0.889 ; 1), \\ & (0.661,0.715,0.888 ; 0.8)) \end{aligned}$ | 0.766 | (0.659,0.715,0.889) | $\begin{aligned} & ((0.659,0.715,0.889 ; 1), \\ & (0.661,0.715,0.888 ; 0.8)) \end{aligned}$ |
|  | C5 | 0.815 | (0.659,0.749,0.94) | $((0.659,0.749,0.94 ; 1),$ | 0.815 | (0.659,0.749,0.94) | $\begin{aligned} & ((0.659,0.749,0.94 ; 1), \\ & (0.662,0.749,0.94 ; 0.8)) \end{aligned}$ |
|  | C6 | 0.909 | (0.659,0.862,0.989) | $\begin{aligned} & ((0.659,0.862,0.989 ; 1), \\ & (0.665,0.862,0.989 ; 0.8)) \end{aligned}$ | 0.909 | (0.659,0.862,0.989) | $\begin{aligned} & ((0.659,0.862,0.989 ; 1), \\ & (0.665,0.862,0.989 ; 0.8)) \end{aligned}$ |
|  | C7 | 0.741 | (0.659,0.724,0.827) | $\begin{aligned} & ((0.659,0.724,0.827 ; 1), \\ & (0.661,0.724,0.826 ; 0.8)) \end{aligned}$ | 0.741 | (0.659,0.724,0.827) | $\begin{aligned} & ((0.659,0.724,0.827 ; 1), \\ & (0.661,0.724,0.826 ; 0.8)) \end{aligned}$ |
|  | C8 | 0.840 | (0.659,0.729,0.968) | $\begin{aligned} & ((0.659,0.729,0.968 ; 1), \\ & (0.663,0.729,0.967 ; 0.8)) \end{aligned}$ | 0.840 | (0.659,0.729,0.968) | $\begin{aligned} & ((0.659,0.729,0.968 ; 1), \\ & (0.663,0.729,0.967 ; 0.8)) \end{aligned}$ |
|  | C9 | 0.709 | (0.659,0.681,0.775) | $\begin{aligned} & ((0.659,0.681,0.775 ; 1), \\ & (0.66,0.681,0.774 ; 0.8)) \end{aligned}$ | 0.709 | (0.659,0.681,0.775) | $\begin{aligned} & ((0.659,0.681,0.775 ; 1), \\ & (0.66,0.681,0.774 ; 0.8)) \end{aligned}$ |
|  | C10 | 0.699 | (0.659,0.67,0.761) | $\begin{aligned} & ((0.659,0.67,0.761 ; 1), \\ & (0.661,0.67,0.759 ; 0.8)) \end{aligned}$ | 0.699 | (0.659,0.67,0.761) | $\begin{aligned} & ((0.659,0.67,0.761 ; 1), \\ & (0.661,0.67,0.759 ; 0.8)) \end{aligned}$ |
|  | C11 | 0.793 | (0.659,0.681,0.937) | $\begin{aligned} & ((0.659,0.681,0.937 ; 1), \\ & (0.662,0.681,0.937 ; 0.8)) \end{aligned}$ | 0.793 | (0.659,0.681,0.937) | $\begin{aligned} & ((0.659,0.681,0.937 ; 1), \\ & (0.662,0.681,0.937 ; 0.8)) \end{aligned}$ |
|  | C12 | 0.659 | (0.659,0.659,0.659) | $\begin{aligned} & ((0.659,0.659,0.659 ; 1), \\ & (0.659,0.659,0.659 ; 0.8)) \end{aligned}$ | 0.659 | (0.659,0.659,0.659) | $\begin{aligned} & ((0.659,0.659,0.659 ; 1), \\ & (0.659,0.659,0.659 ; 0.8)) \end{aligned}$ |
|  | C13 | 0.455 | (0.19,0.536,0.659) | $\begin{gathered} ((0.19,0.536,0.659 ; 1), \\ (0.198,0.536,0.65 ; 0.8)) \end{gathered}$ | 0.455 | (0.19,0.536,0.659) | $\begin{gathered} ((0.19,0.536,0.659 ; 1), \\ (0.198,0.536,0.65 ; 0.8)) \\ \hline \end{gathered}$ |
| 3.0 | C1 | 0.944 | (0.944,0.944,0.944) | $\begin{aligned} & ((0.944,0.944,0.944 ; 1), \\ & (0.944,0.944,0.944 ; 0.8)) \end{aligned}$ | 0.944 | (0.944,0.944,0.944) | $\begin{aligned} & ((0.944,0.944,0.944 ; 1), \\ & (0.944,0.944,0.944 ; 0.8)) \end{aligned}$ |
|  | C2 | 0.990 | (0.944,0.97,0.999) | $\begin{gathered} ((0.944,0.97,0.999 ; 1), \\ (0.946,0.97,0.999 ; 0.8)) \end{gathered}$ | 0.990 | (0.944,0.97,0.999) | $\begin{aligned} & ((0.944,0.97,0.999 ; 1), \\ & (0.946,0.97,0.999 ; 0.8)) \end{aligned}$ |
|  | C3 | 0.979 | (0.944,0.966,0.995) | $\begin{aligned} & ((0.944,0.966,0.995 ; 1), \\ & (0.945,0.966,0.995 ; 0.8)) \end{aligned}$ | 0.979 | (0.944,0.966,0.995) | $\begin{aligned} & ((0.944,0.966,0.995 ; 1), \\ & (0.945,0.966,0.995 ; 0.8)) \end{aligned}$ |
|  | C4 | 0.990 | (0.944,0.978,0.999) | $\begin{aligned} & ((0.944,0.978,0.999 ; 1), \\ & (0.946,0.978,0.999 ; 0.8)) \end{aligned}$ | 0.990 | (0.944,0.978,0.999) | $\begin{aligned} & ((0.944,0.978,0.999 ; 1), \\ & (0.946,0.978,0.999 ; 0.8)) \end{aligned}$ |
|  | C5 | 0.997 | (0.944,0.988,1) | $\begin{aligned} & ((0.944,0.988,1 ; 1), \\ & (0.947,0.988,1 ; 0.8)) \end{aligned}$ | 0.997 | (0.944,0.988,1) | $\begin{aligned} & ((0.944,0.988,1 ; 1), \\ & (0.947,0.988,1 ; 0.8)) \end{aligned}$ |
|  | C6 | 1.000 | (0.944,0.999,1) | $\begin{aligned} & ((0.944,0.999,1 ; 1), \\ & (0.949,0.999,1 ; 0.8)) \end{aligned}$ | 1.000 | (0.944,0.999,1) | $\begin{gathered} ((0.944,0.999,1 ; 1), \\ (0.949,0.999,1 ; 0.8)) \end{gathered}$ |
|  | C7 | 0.986 | (0.944,0.982,0.997) | $\begin{aligned} & ((0.944,0.982,0.997 ; 1), \\ & (0.946,0.982,0.997 ; 0.8)) \end{aligned}$ | 0.986 | (0.944,0.982,0.997) | $\begin{aligned} & ((0.944,0.982,0.997 ; 1), \\ & (0.946,0.982,0.997 ; 0.8)) \end{aligned}$ |
|  | C8 | 0.998 | (0.944,0.981,1) | $\begin{gathered} ((0.944,0.981,1 ; 1) \\ (0.948,0.981,1 ; 0.8)) \end{gathered}$ | 0.998 | (0.944,0.981,1) | $\begin{gathered} ((0.944,0.981,1 ; 1) \\ (0.948,0.981,1 ; 0.8)) \end{gathered}$ |
|  | C9 | 0.976 | (0.944,0.962,0.993) | $\begin{aligned} & ((0.944,0.962,0.993 ; 1), \\ & (0.945,0.962,0.993 ; 0.8)) \end{aligned}$ | 0.976 | (0.944,0.962,0.993) | $\begin{aligned} & ((0.944,0.962,0.993 ; 1), \\ & (0.945,0.962,0.993 ; 0.8)) \end{aligned}$ |
|  | C10 | 0.972 | (0.944,0.954,0.991) | $\begin{aligned} & ((0.944,0.954,0.991 ; 1), \\ & (0.946,0.954,0.99 ; 0.8)) \end{aligned}$ | 0.972 | (0.944,0.954,0.991) | $\begin{aligned} & ((0.944,0.954,0.991 ; 1), \\ & (0.946,0.954,0.99 ; 0.8)) \end{aligned}$ |
|  | C11 | 0.994 | (0.944,0.961,1) | $\begin{gathered} ((0.944,0.961,1 ; 1), \\ (0.947,0.961,1 ; 0.8)) \end{gathered}$ | 0.994 | (0.944,0.961,1) | $\begin{gathered} ((0.944,0.961,1 ; 1), \\ (0.947,0.961,1 ; 0.8)) \end{gathered}$ |
|  | C12 | 0.944 | (0.944,0.944,0.944) | $\begin{aligned} & ((0.944,0.944,0.944 ; 1), \\ & (0.944,0.944,0.944 ; 0.8)) \end{aligned}$ | 0.944 | (0.944,0.944,0.944) | $\begin{aligned} & ((0.944,0.944,0.944 ; 1), \\ & (0.944,0.944,0.944 ; 0.8)) \end{aligned}$ |
|  | C13 | 0.104 | (0.003, 0.426,0.944) | $\begin{gathered} ((0.003,0.426,0.944 ; 1), \\ (0.003,0.426,0.936 ; 0.8)) \end{gathered}$ | 0.104 | (0.003,0.426,0.944) | $\begin{aligned} & ((0.003,0.426,0.944 ; 1), \\ & (0.003,0.426,0.936 ; 0.8)) \end{aligned}$ |
| 5.0 | C1 | 0.993 | (0.993,0.993,0.993) | $\begin{aligned} & ((0.993,0.993,0.993 ; 1), \\ & (0.993,0.993,0.993 ; 0.8)) \end{aligned}$ | 0.993 | (0.993,0.993,0.993) | $\begin{aligned} & ((0.993,0.993,0.993 ; 1), \\ & (0.993,0.993,0.993 ; 0.8)) \end{aligned}$ |
|  | C2 | 1.000 | (0.993,0.997,1) | $\begin{aligned} & ((0.993,0.997,1 ; 1), \\ & (0.993,0.997,1 ; 0.8)) \end{aligned}$ | 1.000 | (0.993,0.997,1) | $\begin{aligned} & ((0.993,0.997,1 ; 1), \\ & (0.993,0.997,1 ; 0.8)) \end{aligned}$ |
|  | C3 | 0.998 | (0.993,0.997,1) | $\begin{aligned} & ((0.993,0.997,1 ; 1), \\ & (0.993,0.997,1 ; 0.8)) \end{aligned}$ | 0.998 | (0.993,0.997,1) | $\begin{aligned} & ((0.993,0.997,1 ; 1), \\ & (0.993,0.997,1 ; 0.8)) \end{aligned}$ |
|  | C4 | 1.000 | (0.993,0.998,1) | $\begin{aligned} & ((0.993,0.998,1 ; 1), \\ & (0.993,0.998,1 ; 0.8)) \end{aligned}$ | 1.000 | (0.993,0.998,1) | $\begin{aligned} & ((0.993,0.998,1 ; 1), \\ & (0.993,0.998,1 ; 0.8)) \end{aligned}$ |
|  | C5 | 1.000 | (0.993,0.999,1) | $\begin{aligned} & ((0.993,0.999,1 ; 1), \\ & (0.994,0.999,1 ; 0.8)) \end{aligned}$ | 1.000 | (0.993,0.999,1) | $\begin{aligned} & ((0.993,0.999,1 ; 1), \\ & (0.994,0.999,1 ; 0.8)) \end{aligned}$ |
|  | C6 | 1.000 | (0.993, 1,1 ) | $\begin{gathered} ((0.993,1,1 ; 1), \\ (0.994,1,1 ; 0.8)) \end{gathered}$ | 1.000 | (0.993, 1,1 ) | $\begin{gathered} ((0.993,1,1 ; 1), \\ (0.994,1,1 ; 0.8)) \end{gathered}$ |
|  | C7 | 0.999 | (0.993,0.999,1) | $\begin{aligned} & ((0.993,0.999,1 ; 1), \\ & (0.993,0.999,1 ; 0.8)) \end{aligned}$ | 0.999 | (0.993,0.999,1) | $\begin{aligned} & ((0.993,0.999,1 ; 1), \\ & (0.993,0.999,1 ; 0.8)) \end{aligned}$ |
|  | C8 | 1.000 | (0.993,0.999,1) | $\begin{aligned} & ((0.993,0.999,1 ; 1), \\ & (0.994,0.999,1 ; 0.8)) \end{aligned}$ | 1.000 | (0.993,0.999,1) | $\begin{aligned} & ((0.993,0.999,1 ; 1), \\ & (0.994,0.999,1 ; 0.8)) \end{aligned}$ |
|  | C9 | 0.998 | (0.993,0.996,1) | $\begin{gathered} ((0.993,0.996,1 ; 1), \\ (0.993,0.996,1 ; 0.8)) \end{gathered}$ | 0.998 | (0.993,0.996,1) | $\begin{aligned} & ((0.993,0.996,1 ; 1), \\ & (0.993,0.996,1 ; 0.8)) \end{aligned}$ |
|  | C10 | 0.998 | (0.993,0.995,1) | $\begin{aligned} & ((0.993,0.995,1 ; 1), \\ & (0.993,0.995,1 ; 0.8)) \end{aligned}$ | 0.998 | (0.993,0.995,1) | $\begin{aligned} & ((0.993,0.995,1 ; 1), \\ & (0.993,0.995,1 ; 0.8)) \end{aligned}$ |
|  | C11 | 1.000 | (0.993,0.996,1) | $\begin{aligned} & ((0.993,0.996,1 ; 1), \\ & (0.994,0.996,1 ; 0.8)) \end{aligned}$ | 1.000 | (0.993,0.996,1) | $\begin{aligned} & ((0.993,0.996,1 ; 1), \\ & (0.994,0.996,1 ; 0.8)) \end{aligned}$ |
|  | C12 | 0.993 | (0.993,0.993,0.993) | $\begin{aligned} & ((0.993,0.993,0.993 ; 1), \\ & (0.993,0.993,0.993 ; 0.8)) \end{aligned}$ | 0.993 | (0.993,0.993,0.993) | $\begin{aligned} & ((0.993,0.993,0.993 ; 1), \\ & (0.993,0.993,0.993 ; 0.8)) \end{aligned}$ |
|  | C13 | 0.016 | (0,0.099,0.993) | $\begin{gathered} ((0,0.099,0.993 ; 1), \\ (0,0.099,0.991 ; 0.8)) \end{gathered}$ | 0.016 | (0,0.099,0.993) | $\begin{gathered} ((0,0.099,0.993 ; 1), \\ (0,0.099,0.991 ; 0.8)) \end{gathered}$ |

