Illustration 1 is the presentation of the NRC funding problem of the Method section in the manner of the proposed method and its spreadsheet implementation. Figure 1.1 below is a partial image of the Evaluation sheet of Illustration1.xlsx that depicts the enumeration and evaluation of all possible funding scenarios that include Category 2 features $\mathrm{j}=1, \ldots, 5$ addressed in this situation. The scenario references $\mathrm{v}=0,1, \ldots, 31$ appear in cells $\mathrm{F} 12-\mathrm{F} 43$ and their conversions to strings of $0 / 1$ characters are given in cells J12-J43. Although each string consists of eight $0 / 1$ characters $\mathrm{e}_{8} \mathrm{e}_{7} \mathrm{e}_{6} \mathrm{e}_{5} \mathrm{e}_{4} \mathrm{e}_{3} \mathrm{e}_{2} \mathrm{e}_{1}$, only the $0 / 1$ characters $\mathrm{e}_{5} \mathrm{e}_{4} \mathrm{e}_{3} \mathrm{e}_{2} \mathrm{e}_{1}$ apply to this illustration. In order to accommodate as many as $\mathrm{J}=32$ Category 2 features, the binary conversion of $\mathrm{v}\left(=0,1, \ldots, 2^{\mathrm{J}}-1\right)$ for each funding scenario is given in terms of four strings of eight $0 / 1$ characters each that appear in the rows of columns G-J of worksheet Illustration1.xlsx. In general, the exclusion/inclusion of feature $\mathrm{j}(=1, \ldots, 32)$ in any funding scenario v is indicated by the $\mathrm{e}_{\mathrm{j}}$ character in strings $\underline{\mathrm{e}}_{32} \mathrm{e}_{31} \ldots \mathrm{e}_{\underline{25}} \quad \underline{\mathrm{e}}_{24} \ldots \mathrm{e}_{\underline{17}} \underline{\mathrm{e}}_{16} \ldots \mathrm{e}_{2} \quad \underline{e}_{8} \ldots \mathrm{e}_{\underline{1}}$ that appear respectively in the rows of columns $\mathrm{G}, \mathrm{H}, \mathrm{I}$, and J corresponding to v .

To facilitate the evaluation of (1.1) for each scenario v , the $0 / 1$ content of the strings in cells J12-J43 were decatenated to $0 / 1$ decimal values according to the labels $\mathrm{j}=1-5$ in cells K11-O11. The cell contents of K12-O43 are the $0 / 1$ values indicating exclusion/inclusion of Category 2 feature $j(=1, \ldots, 5)$ in funding scenarios $\mathrm{v}=0,1, \ldots, 31$ according to the labels $\mathrm{j}=1-5$ appearing in cells K11-O11. The Evaluation sheet of Illustration1.xlsx allows decatenations for as many as $j=1, \ldots, 32$ labels noted in cells K11-AP11. Note that the labels are conveniently ordered by ascending j reading left to right. The scenario reference $v$, funded Category 2 features in $v$, the number of funded Category 2 features in v, and funding cost of scenario $v$ appear in rows 12-43 of columns BX to CA respectively, some of which is shown in Figure 1.1 below. The calculated cost for each scenario includes the cost of the Category 1 features, the null funding scenario denoted as $\mathrm{v}=0$. The contents of cells BX12-CA43 in the Evaluation sheet also appear in cells A12-D43 and F12-I43 of the Results sheet. The latter were changed to values and then sorted by r and funding cost in ascending order. The results populated the entries of Table 3 discussed in the Illustration section of the manuscript. The worksheet Illustration1.xlsx is a basic spreadsheet implementation of the solution method presented in Section 3.

Figure 1.1
Partial image of the evaluation sheet of illustration1.xlsx.

|  | F | J | K | L | M | N | O | BY | BZ | CA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 |  |  | Decatenated $0 / 1$ characters of v and the $0 / 1$ values of $f 2, j, j=1, \ldots, 5$ |  |  |  |  |  |  |  |
| 11 | Scenario reference, v | Binary form of $v$ | 1 | 2 | 3 | 4 | 5 | Funded Category 2 features, j | r | Funding cost |
| 12 | 0 | 00000000 | 0 | 0 | 0 | 0 | 0 | - | r | 11.069 |
| 13 | 1 | 00000001 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 11.349 |
| 14 | 2 | 00000010 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 11.421 |
| 15 | 3 | 00000011 | 1 | 1 | 0 | 0 | 0 | 12 | 2 | 11.701 |
| 16 | 4 | 00000100 | 0 | 0 | 1 | 0 | 0 | 3 | 1 | 11.444 |
| 17 | 5 | 00000101 | 1 | 0 | 1 | 0 | 0 | 13 | 2 | 11.724 |
| 18 | 6 | 00000110 | 0 | 1 | 1 | 0 | 0 | 23 | 2 | 11.796 |
| 19 | 7 | 00000111 | 1 | 1 | 1 | 0 | 0 | 123 | 3 | 12.076 |
| 20 | 8 | 00001000 | 0 | 0 | 0 | 1 | 0 | 4 | 1 | 11.467 |
| 21 | 9 | 00001001 | 1 | 0 | 0 | 1 | 0 | 14 | 2 | 11.747 |
| 22 | 10 | 00001010 | 0 | 1 | 0 | 1 | 0 | 24 | 2 | 11.819 |
| 23 | 11 | 00001011 | 1 | 1 | 0 | 1 | 0 | 124 | 3 | 12.099 |
| 24 | 12 | 00001100 | 0 | 0 | 1 | 1 | 0 | 34 | 2 | 11.842 |
| 25 | 13 | 00001101 | 1 | 0 | 1 | 1 | 0 | 134 | 3 | 12.122 |
| 26 | 14 | 00001110 | 0 | 1 | 1 | 1 | 0 | 234 | 3 | 12.194 |
| 27 | 15 | 00001111 | 1 | 1 | 1 | 1 | 0 | 1234 | 4 | 12.474 |
| 28 | 16 | 00010000 | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 11.476 |

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| 29 | 17 | 00010001 | 1 | 0 | 0 | 0 | 1 | 15 | 2 | 11.756 |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 30 | 18 | 00010010 | 0 | 1 | 0 | 0 | 1 | 25 | 2 | 11.828 |
| 31 | 19 | 00010011 | 1 | 1 | 0 | 0 | 1 | 125 | 3 | 12.108 |
| 32 | 20 | 00010100 | 0 | 0 | 1 | 0 | 1 | 35 | 2 | 11.851 |
| 33 | 21 | 00010101 | 1 | 0 | 1 | 0 | 1 | 135 | 3 | 12.131 |
| 34 | 22 | 00010110 | 0 | 1 | 1 | 0 | 1 | 235 | 3 | 12.203 |
| 35 | 23 | 00010111 | 1 | 1 | 1 | 0 | 1 | 1235 | 4 | 12.483 |
| 36 | 24 | 00011000 | 0 | 0 | 0 | 1 | 1 | 45 | 2 | 11.874 |
| 37 | 25 | 00011001 | 1 | 0 | 0 | 1 | 1 | 145 | 3 | 12.154 |
| 38 | 26 | 00011010 | 0 | 1 | 0 | 1 | 1 | 245 | 3 | 12.226 |
| 39 | 27 | 00011011 | 1 | 1 | 0 | 1 | 1 | 1245 | 4 | 12.506 |
| 40 | 28 | 00011100 | 0 | 0 | 1 | 1 | 1 | 345 | 3 | 12.249 |
| 41 | 29 | 00011101 | 1 | 0 | 1 | 1 | 1 | 1345 | 4 | 12.529 |
| 42 | 30 | 00011110 | 0 | 1 | 1 | 1 | 1 | 2345 | 4 | 12.601 |
| 43 | 31 | 00011111 | 1 | 1 | 1 | 1 | 1 | 12345 | 5 | 12.881 |

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