Work Report 08.09.2017

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1 Curvature Plots for a Random Mitigation Vector

This time we would like to investigate the curvatures for points other than the optimal one. In this case, we fix an arbitrary point, a 63×1 vector, whose entries are randomly picked from (0,1]. Like what we did for the optimal point, we do mitigation changes of size 0.02 in 1 and 2 dimensions and generate the plots for utilities.

When we do 1-dimensional change, the plots typically look like the 2 shapes below. What we see in Figure 1b is more like a straight line.

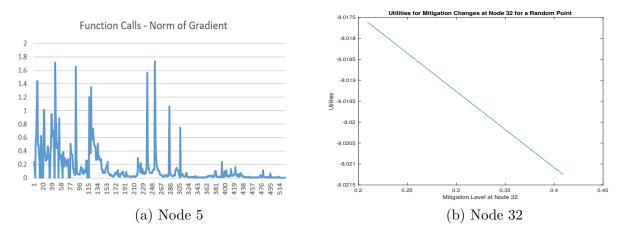
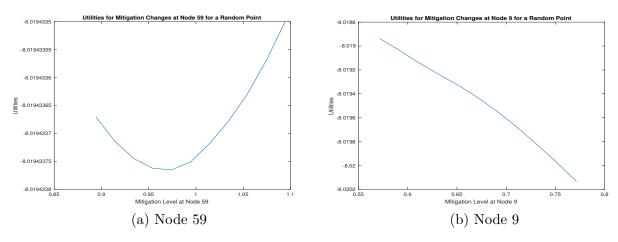


Figure 1: Utilities with 1-dimension Mitigation Change

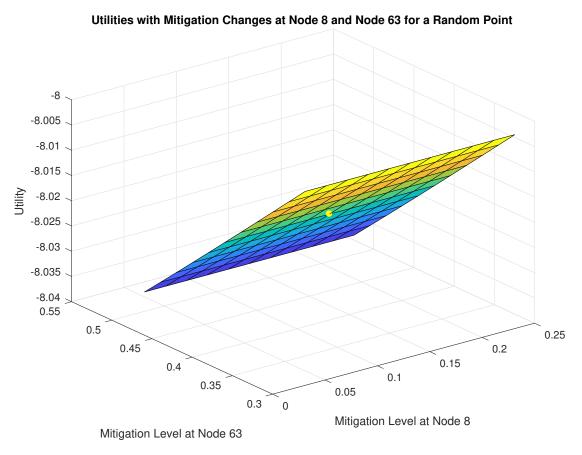
We get some convex curves, but we also observe a few concave ones. See Figure 2a and 2b.

Figure 2: Utilities with 1-dimension Mitigation Change



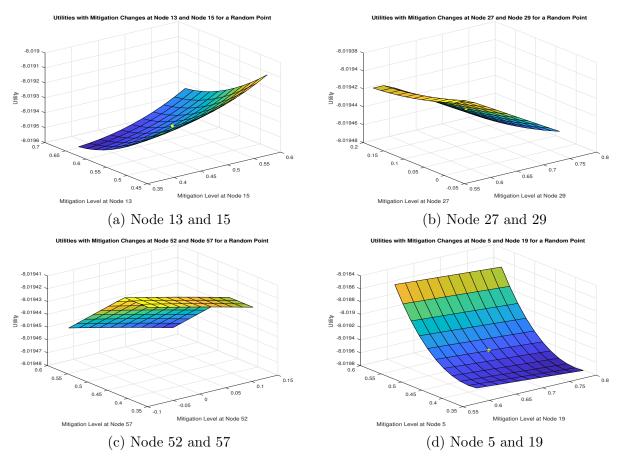
When it comes to the 2-dimensional changes, the resulted figures also look quite different from those at the optimal point. Most of the plots have a flat plane like Figure 3 below.

Figure 3: Utilities with 2-dimension Mitigation Change



There are more typical shapes that we can take a look at.

Figure 4: Utilities with 1-dimension Mitigation Change



2 Plots for Norm of Gradients During Optimization

We draw graphs of the number of function (utility and gradient) evaluations v.s. norm of gradient to see whether the algorithm struggles far from the solution or in the neighbourhood of the solution.

Table 1: Iteration and Function Evaluation for Each Test

| ID of test | 1 | 2 | 3 | 4 | 5 |
|-------------------------------|-----|-----|-----|-----|-----|
| Number of iterations | 249 | 218 | 263 | 247 | 212 |
| Number of Function Evaluation | 615 | 594 | 288 | 670 | 557 |

Function Calls- Norm of Gradient

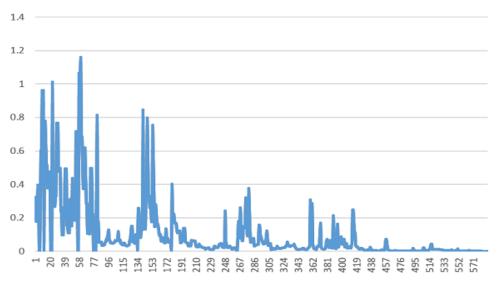


Figure 5: test1

Function Calls - Norm of Gradient

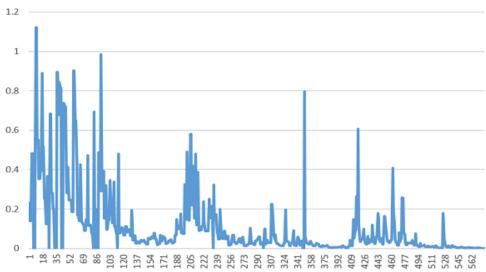


Figure 6: test2

Figure 7: test3

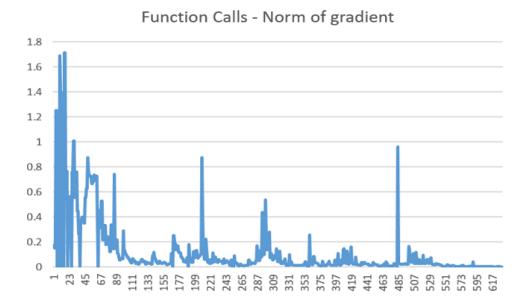


Figure 8: test4

Function Calls - Norm of Gradient

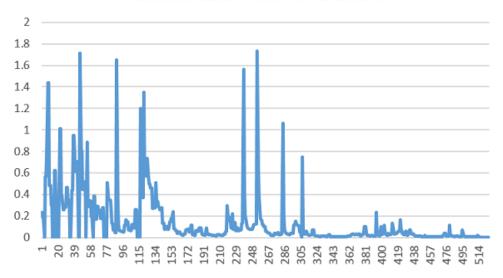


Figure 9: test5

Raw data are attached at the end of the report.

| | Ç | Sensitivity A | Analysis for | ^r Paramete | er alpha 65 | 0 |
|--------------------------|----------------------------|------------------------------|--|------------------------------|-------------------------------|----------------------------|
| 200 - | | - | | | <u> </u> | |
| \$ ⊆ 150 - | | The second second | | | | |
| Price 100 - | | 1 | The state of the s | | | |
| 50 - | | | The second second | | | |
| 0 - | | 50 | 100 | 150 | 200 2 | 250 |
| | 0 | 50 | | I Index | 200 2 | 250 |
| | | | | | | |
| Γ | | T | T | | T : -07.V | T |
| Expected Price | In 0 Years 194.73871499 | In 15 Years 196.809572587 | In 45 Years 182.021904937 | In 85 Years 116.904995828 | In 185 Years 21.3182780582 | In 285 Years 3.64956640826 |
| | | n Number | Utility at S | Start Point | Norm of | Gradient |
| Test 1 | | 242.0 | | 115417106 | | 044501014 |
| Test 2 | | 199.0 | | 588101504 | | 716933154 |
| Test 3 | | 191.0 | | 390270608 | | 179235259 |
| Test 4 | | 234.0 | | 920520007 | | 571430383 |
| Test 5 Test 6 | | 228.0 213.0 | | 901113366 516201189 | | 015655218 497810532 |
| Test 6 | | 213.0 | | 546732809 | | 053739924 |
| Test 8 | | 292.0 | | 505828367 | | 569793356 |
| Test 9 | | 222.0 | | 017602096 | | 957647261 |
| Test 10 | | 196.0 | 9.498 | 330005261 | 0.0007565 | 597939517 |
| Test 11 | | 230.0 | 9.438 | 885447873 | 0.0007763 | 367974391 |
| Test 12 | | 244.0 | | 087843575 | | 286723712 |
| Test 13 | | 246.0 | | 976162518 | | 952529078 |
| Test 14 | | 246.0 | | 181122729 | | 325018434 |
| Test 15 | | 201.0 | | 506125494 565113758 | | 412310411 |
| Test 16 Test 17 | | 215.0 198.0 | | 565113758 540712551 | | 989908511 102486123 |
| Test 17 | | 198.0 246.0 | | 023216228 | | 999143385 |
| Test 19 | | 246.0 | | 316904857 | | 396803125 |
| Test 20 | | 228.0 | | 056451619 | | 066635701 |
| Test 21 | | 182.0 | | 124319064 | | 618741292 |
| Test 22 | | 205.0 | | 948189357 | | 434063176 |
| Test 23 | | 202.0 | 9.396 | 541712607 | | 309993124 |
| Test 24 | | 369.0 | | 405414006 | | 530716365 |
| Test 25 | | 23.0 | | 024632799 | | 536698864 |
| Test 26 | | 233.0 | | 083022993 | | 143899072 |
| Test 27 | | 161.0 212.0 | | 008339237 349835182 | | 346540538 359982479 |
| Test 28 | | 319.0 | | 349835182 186457149 | | 359982479 151521851 |
| Test 29 | | 222.0 | | 186457149 128689362 | | 991775223 |
| Test 31 | | 240.0 | | 545268289 | | 151748778 |
| Test 32 | | 169.0 | | 247059568 | | 191245101 |
| Test 33 | | 221.0 | | 326614329 | | 881524548 |
| Test 34 | | 242.0 | 9.478 | 370762801 | 0.0008937 | 160742002 |
| Test 35 | | 170.0 | | 173540468 | + | 910850069 |
| Test 36 | | 211.0 | | 881089286 | | 979027628 |
| Test 37 | | 212.0 | | 520414226 | | 483681067 |
| Test 38 | | 212.0 | | 087536636 | | 128804149 |
| Test 39 Test 40 | | 205.0 222.0 | |)33659097 455856835 | | 611327023 017154851 |
| Test 40 | | 273.0 | | 330558141 | + | 780421208 |
| Test 42 | | 375.0 | | 020248567 | | 135275814 |
| Test 43 | | 228.0 | | 167539443 | | 094279155 |
| Test 44 | | 303.0 | | 132433217 | | 100050401 |
| Test 45 | | 360.0 | | 561995065 | | 430185743 |
| Test 46 | | 384.0 | | 348663477 | | 408015656 |
| Test 47 | | 203.0 | | 723325725 | | 971185977 |
| Test 48 | | 302.0 368.0 | | 721474711 | | 470280304 |
| Test 49 Test 50 | | 368.0 235.0 | | 298138431 927532754 | | 955291e-05 229928395 |
| Test 50 | | 193.0 | | 927532754 475114632 | | 304716527 |
| Test 52 | | 387.0 | | 111149115 | + | 381903567 |
| Test 53 | | 266.0 | | 729643987 | | 549157227 |
| Test 54 | | 259.0 | | 570009368 | | 845755874 |
| Test 55 | | 279.0 | 9.45 | 523474601 | 0.0007472 | 277563168 |
| Test 56 | | 166.0 | 9.474 | 190516764 | 0.0009934 | 421114485 |
| Test 57 | | 209.0 | 9.517 | 754491982 | 0.000939 | 976044094 |
| Test 58 | | 231.0 | | 239598555 | | 971029293 |
| Test 59 | | 220.0 | | 182273605 | 1 | 979786858 |
| Test 60 | | 199.0 | | 567155596 | | 158289408 |
| Test 61 | | 234.0 | ı 9.43 <i>⁄</i> | 199686875 | 0.0008048 | 884509234 |

Test 62

Test 63

Test 64

Test 65

Test 66

Test 67

Test 68

Test 69

Test 70

Test 71

Test 72

Test 73

Test 74

Test 75

Test 76

Test 77

Test 78

Test 79

Test 80

Test 81

Test 82

Test 83

Test 84

Test 85

Test 86

Test 87

Test 88

Test 89

Test 90

Test 91

Test 92

Test 93

Test 94

Test 95

Test 96

Test 97

Test 98

Test 99

Average

188.0

210.0

215.0

227.0

195.0

268.0

388.0

254.0

189.0

235.0

284.0

168.0

376.0

288.0

188.0

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| utility | norm of grad | utility | norm of grad | utility | norm of grad |
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| -8.1259 | 0.1787 | -8.1444 | 0.1399 | -8.1472 | 0.1948 |
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| -8.8387E-13 | 7.6226E-13 | -8.6852 | 1.5875 | -8.6579 | 0.5587 |
| -8.2206 | 16.9946 | -2.197E-15 | 3.2618E-15 | -8.6579 | 0.5587 |
| -8.7491 | 0.6018 | -1.001E-12 | 1.806E-13 | -1.032E-12 | 1.4611E-13 |
| -8.7415 | 4.8273 | -4.3122E-09 | 9.0417E-08 | -3.979E-07 | 7.537E-08 |
| -8.8252 | 0.9628 | -8.8185 | 1.1225 | -8.5981 | 6.0818 |
| -8.8583 | 1.1994 | -8.8185 | 1.1225 | -8.6747 | 0.7912 |
| -2.8635E-15 | 9.2358E-16 | -8.9448 | 0.5516 | -8.6747 | 0.7912 |
| -7.5962 | 35.0516 | -8.9448 | 0.5516 | -4.992E-09 | 2.7428E-09 |
| -8.8668 | 0.7781 | -8.8871 | 3.323 | -8.6822 | 4.7955 |
| -8.8668 | 0.7781 | -9.0282 | 0.3529 | -8.6822 | 4.7955 |
| -8.994 | 2.501 | -9.0282 | 0.3529 | -8.833 | 0.6808 |
| -8.994 | 2.501 | -8.9426 | 2.0748 | -8.833 | 0.6808 |
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| -9.1063 | 0.4781 | | 0.2807 | | |
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| -9.1644 | 0.1499 | | 0.7374 | | |
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| -9.1663 | 0.2191 | | 0.7192 | | |
| -9.1663 | 0.2191 | | 0.7192 | | |
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| -9.18 | 0.1855 | | 0.2806 | | |
| -8.8614 | 10.7615 | | 0.4121 | | 1.0478 |
| -9.1985 0.1095 | 0.7165 | | 0.2458 | | |
| -9.1985 | 0.7165 | | 0.2458 | | |
| -2.9634E-15 | 2.504E-16 | -9.2979 | 0.2455 | -9.1932 | 1.1124 |

| -9.2683 | 0.6841 | -9.3063 | 0.9024 | -9.0105 | 7.8998 |
|-------------|------------|-------------|------------|-------------|------------|
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| -9.3173 | 0.6205 | -9.3152 | 0.6508 | -9.2488 | 0.4798 |
| -9.3173 | 0.6205 | -9.2909 | 0.4259 | -9.1946 | 2.6446 |
| -9.3271 | 0.2844 | -9.332 | 0.1669 | -9.2825 | 0.5749 |
| -9.3271 | 0.2844 | -9.332 | 0.1669 | -9.2825 | 0.5749 |
| -9.34 | 0.1061 | -9.3426 | 0.1403 | -8.9762 | 4.7465 |
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| -9.3498 | 0.4973 | -9.3462 | 0.1335 | -9.3093 | 0.2441 |
| -9.3643 | 0.2221 | -9.3504 | 0.1204 | -9.3093 | 0.2441 |
| -9.3643 | 0.2221 | -9.3504 | 0.1204 | -9.3135 | 0.2529 |
| -1.0306E-12 | 1.3366E-13 | -9.3585 | 0.0917 | -9.3135 | 0.2529 |
| -9.2442 | 4.1939 | -9.3585 | 0.0917 | -9.3235 | 0.2496 |
| -9.396 | 0.1585 | -9.2157 | 4.929 | -9.3235 | 0.2496 |
| -9.396 | 0.1585 | -9.3683 | 0.1479 | -9.3443 | 0.1707 |
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| -7.6067 | 39.8813 | -9.3576 | 0.4726 | -9.1246 | 5.5758 |
| -9.3748 | 0.8145 | -9.3696 | 0.1155 | -9.3319 | 0.5322 |
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| -9.4128 | 0.0385 | -9.3866 | 0.1998 | -9.3102 | 2.1984 |
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| -9.411 | 0.1293 | -9.2946 | 1.8148 | -9.3772 | 0.4255 |
| -9.416 | 0.065 | -9.3828 | 0.4875 | -9.3842 | 0.3574 |
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| -9.4209 | 0.0668 | -9.3988 | 0.1512 | -9.3804 | 0.6061 |
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| | | | | | |

| -9.4227 | 0.0624 | -9.3964 | 0.3206 | -9.3997 | 0.0935 |
|--------------------|------------------|--------------------|------------------|----------------------------|------------------|
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| -9.4237 | 0.0678 | -9.4033 | 0.1418 | -9.4022 | 0.108 |
| -9.4237 | 0.0678 | -9.4033 | 0.1418 | -9.3906 | 0.3372 |
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| -9.4257 | 0.0477 | -9.4034 | 0.2589 | -9.4032 | 0.0844 |
| -9.4262 | 0.038 | -9.4034 | 0.2589 | -9.4032 | 0.0844 |
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| -9.4274 | 0.0306 | -9.4126 | 0.0756 | -9.4066 | 0.1672 |
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| -9.2851 0.4417 | 6.879 | -9.4292 0.4202 | 0.0251 | -9.4258 0.4358 | 0.0355 |
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| J.70 7 | 0.0210 | 5.7011 | 0.0073 | 3.4010 | 0.0233 |

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| | |

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| utility | grad | utility | grad |
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