unknown

1 "E:\1 □□□□\3 □□□□□\1 □□□□□□□\1 □□□□□□□□□\1_□□□□□□_□□□□\1_LW_□□□□\4 □□□□□\3 python_code\1 exzample\2 □□□□□□□\9 Code for this paper\Scripts\python.exe" "D:\Python\Pycharm\setroute\PyCharm Community Edition 2021.2.3\plugins\python-ce\helpers\pydev\pydevconsole.py" --mode= client --port=54160

2

3 import sys; print('Python %s on %s' % (sys.version, sys.platform))

4 sys.path.extend(['E:\\1 □□□□\\3 □□□□□\\1 □□□□□□□\\1 □□□□□□□□□\\1_□□□□□□_□□□□\\1_LW_□□□□\\4 □□□□□\\3 python_code\\9 Code for this paper', 'E:/1 □□□□/3 □□□□□/1 □□□□□□□/1 □□□□□□□□□/1_□□□□□□_□□□□/1_LW_□□□□/4 □□□□□/3 python_code/9 Code for this paper'])

5

6 PyDev console: starting.

7

8 Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32

9 >>> runfile('E:/1 □□□□/3 □□□□□/1 □□□□□□□/1 □□□□□□□□□/1_□□□□□□_□□□□/1_LW_□□□□/4 □□□□□/3 python_code/9 Code for this paper/ main_ECCG_deterministic.py', wdir='E:/1 □□□□/3 □□□□□/1 □□□□□□□/1 □□□□□□□□□/1_□□□□□□_□□□□/1_LW_□□□□/4 □□□□□/3 python_code/9 Code for this paper')

10 Backend TkAgg is interactive backend. Turning interactive mode on.

11 Waiting 5s......

12

13 Optimize the ./R_15_1.xlsx instance by ECCG for deterministic model

14

15 Set parameter MIPGap to value 0.01

16   Master protblem status = 2 , is Optimal and MP obj = 528.0

17 The initial lb = -inf   ub = inf

18

19 The current iteration cnt = 0

20   The SP model was solved Optimal 2 and SPObj = 528.0

21   Deterministic Sub problem Status= 2 , is Optimal

22   Master protblem status = 2 , is Optimal

23   lb = 931.0   ub = 931.0

24   MPObj = 931.0   MP_delete_Hua_Obj = 528.0   Hua = 403.0   SPObj = 528.0   Deter_SP_Obj = 403.0

25

26 ub - lb = 0.0

27

28 Iteration cycle stopped by termination criterion 1: Because ub - lb <= eps, the iteration stop, and cnt = 0

29   i: 0.0 l_i: 6.0 p_i: 0.0 al_i: 1.0   sol_a_i: 1.0 sol_g_i: 0.0 d_i: 15.0 sol_taoi: 1.0 sol_deltai: 13.0 sol_deltai - sol_taoi: 12.0 sol_taoP: 1.0 sol_deltaP: 5.0 sol_deltaP - sol_taoP: 4.0 cl_i: 2917497.0   sol_c_i: 2917497.0 sol_gp_i: 0.0 total work: 3163728.0 wasted work: 0.9339526027521962

30   i: 1.0 l_i: 6.0 p_i: 6.0 al_i: 5.0   sol_a_i: 5.0 sol_g_i: 0.0 d_i: 11.0 sol_taoi: 5.0 sol_deltai: 9.0 sol_deltai - sol_taoi: 4.0 sol_taoP: 5.0 sol_deltaP: 6.0 sol_deltaP - sol_taoP: 1.0 cl_i: 1036171.0   sol_c_i: 1036171.0 sol_gp_i: 0.0 total work: 1186398.0 wasted work: 0.5698100468814007

31   i: 2.0 l_i: 7.0 p_i: 12.0 al_i: 6.0   sol_a_i: 6.0 sol_g_i: 0.0 d_i: 20.0 sol_taoi: 6.0 sol_deltai: 18.0 sol_deltai - sol_taoi: 12.0 sol_taoP: 6.0 sol_deltaP: 8.0 sol_deltaP - sol_taoP: 2.0 cl_i: 3020678.0   sol_c_i: 3020678.0 sol_gp_i: 0.0 total work: 3163728.0 wasted work: 0.5425877319415575

32   i: 3.0 l_i: 6.0 p_i: 19.0 al_i: 10.0   sol_a_i: 10.0 sol_g_i: 0.0 d_i: 16.0 sol_taoi: 10.0 sol_deltai: 14.0 sol_deltai - sol_taoi: 4.0 sol_taoP: 10.0 sol_deltaP: 11.0 sol_deltaP - sol_taoP: 1.0 cl_i: 1003327.0   sol_c_i: 1003327.0 sol_gp_i: 0.0 total work: 1186398.0 wasted work: 0.6943871280969792

33   i: 4.0 l_i: 5.0 p_i: 7.0 al_i: 15.0   sol_a_i: 15.0 sol_g_i: 0.0 d_i: 34.0 sol_taoi: 15.0 sol_deltai: 32.0 sol_deltai - sol_taoi: 17.0 sol_taoP: 15.0 sol_deltaP: 20.0 sol_deltaP - sol_taoP: 5.0 cl_i: 4430235.0   sol_c_i: 4430235.0 sol_gp_i: 0.0 total work: 4613770.0 wasted work: 0.6961470771191455

34   i: 5.0 l_i: 6.0 p_i: 1.0 al_i: 16.0   sol_a_i: 16.0 sol_g_i: 0.0 d_i: 25.0 sol_taoi: 16.0 sol_deltai: 23.0 sol_deltai - sol_taoi: 7.0 sol_taoP: 16.0 sol_deltaP: 19.0 sol_deltaP - sol_taoP: 3.0 cl_i: 1727656.0   sol_c_i: 1727656.0 sol_gp_i: 0.0 total work: 2109152.0 wasted work: 1.4470118796558997

35   i: 6.0 l_i: 6.0 p_i: 12.0 al_i: 24.0   sol_a_i: 24.0 sol_g_i: 0.0 d_i: 38.0 sol_taoi: 24.0 sol_deltai: 36.0 sol_deltai - sol_taoi: 12.0 sol_taoP: 24.0 sol_deltaP: 27.0 sol_deltaP - sol_taoP: 3.0 cl_i: 3144664.0   sol_c_i: 3144664.0 sol_gp_i: 0.0 total work: 3295550.0 wasted work: 0.5723096296521066

36   i: 7.0 l_i: 7.0 p_i: 18.0 al_i: 26.0   sol_a_i: 26.0 sol_g_i: 0.0 d_i: 34.0 sol_taoi: 26.0 sol_deltai: 32.0 sol_deltai - sol_taoi: 6.0 sol_taoP: 26.0 sol_deltaP: 27.0 sol_deltaP - sol_taoP: 1.0 cl_i: 1536740.0   sol_c_i: 1536740.0 sol_gp_i: 0.0 total work: 1581864.0 wasted work: 0.17115504240566826

37   i: 8.0 l_i: 5.0 p_i: 25.0 al_i: 28.0   sol_a_i: 28.0 sol_g_i: 0.0 d_i: 61.0 sol_taoi: 28.0 sol_deltai: 49.0 sol_deltai - sol_taoi: 21.0 sol_taoP: 28.0 sol_deltaP: 32.0 sol_deltaP - sol_taoP: 4.0 cl_i: 5432806.0   sol_c_i: 5432806.0 sol_gp_i: 0.0 total work: 6063812.0 wasted work: 2.3934017083643093

38   i: 9.0 l_i: 7.0 p_i: 0.0 al_i: 31.0   sol_a_i: 31.0 sol_g_i: 0.0 d_i: 54.0 sol_taoi: 31.0 sol_deltai: 36.0 sol_deltai - sol_taoi: 5.0 sol_taoP: 31.0 sol_deltaP: 33.0 sol_deltaP - sol_taoP: 2.0 cl_i: 1122221.0   sol_c_i: 1122221.0 sol_gp_i: 0.0 total work: 1845508.0 wasted work: 2.74342294912837

39   i: 10.0 l_i: 5.0 p_i: 7.0 al_i: 33.0   sol_a_i: 33.0 sol_g_i: 0.0 d_i: 72.0 sol_taoi: 33.0 sol_deltai: 50.0 sol_deltai - sol_taoi: 17.0 sol_taoP: 33.0 sol_deltaP: 38.0 sol_deltaP - sol_taoP: 5.0 cl_i: 4319864.0   sol_c_i: 4319864.0 sol_gp_i: 0.0 total work: 5141058.0 wasted work: 3.1147835717861967

40   i: 11.0 l_i: 6.0 p_i: 19.0 al_i: 33.0   sol_a_i: 33.0 sol_g_i: 0.0 d_i: 65.0 sol_taoi: 33.0 sol_deltai: 49.0 sol_deltai - sol_taoi: 16.0 sol_taoP: 33.0 sol_deltaP: 36.0 sol_deltaP - sol_taoP: 3.0 cl_i: 3993564.0   sol_c_i: 3993564.0 sol_gp_i: 0.0 total work: 4086482.0 wasted work: 0.35243737767595695

41   i: 12.0 l_i: 6.0 p_i: 13.0 al_i: 38.0   sol_a_i: 38.0 sol_g_i: 0.0 d_i: 63.0 sol_taoi: 38.0 sol_deltai: 47.0 sol_deltai - sol_taoi: 9.0 sol_taoP: 38.0 sol_deltaP: 40.0 sol_deltaP - sol_taoP: 2.0 cl_i: 2342507.0   sol_c_i: 2342507.0 sol_gp_i: 0.0 total work: 2636440.0 wasted work: 1.1148859826129174

42   i: 13.0 l_i: 7.0 p_i: 0.0 al_i: 45.0   sol_a_i: 45.0 sol_g_i: 0.0 d_i: 72.0 sol_taoi: 45.0 sol_deltai: 58.0 sol_deltai - sol_taoi: 13.0 sol_taoP: 45.0 sol_deltaP: 49.0 sol_deltaP - sol_taoP: 4.0 cl_i: 3386423.0   sol_c_i: 3386423.0 sol_gp_i: 0.0 total work: 4218304.0 wasted work: 3.1553192941997543

43   i: 14.0 l_i: 5.0 p_i: 12.0 al_i: 50.0   sol_a_i: 50.0 sol_g_i: 0.0 d_i: 82.0 sol_taoi: 50.0 sol_deltai: 62.0 sol_deltai - sol_taoi: 12.0 sol_taoP: 50.0 sol_deltaP: 52.0 sol_deltaP - sol_taoP: 2.0 cl_i: 2979427.0   sol_c_i: 2979427.0 sol_gp_i: 0.0 total work: 3031906.0 wasted work: 0.19905251020315273

44 Time: 127.000000

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