

UNIVERSITAT POLITÈCNICA DE CATALUNYA
OPE-PROTHIUS – ORGANIZACIÓN DE LA PRODUCCIÓN
EN TALLERES HÍBRIDOS

**Anexos para “Assignment of Volunteers in a sport
event. Case Restricted Fitness by Cut-off mark”**

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Anexo I. Modelo

Parámetros:

- I Conjunto de voluntarios (Volunteer): $i = 1, \dots, n$ ($n \equiv |I|$).
- J Conjunto de tareas (Task): $j = 1, \dots, m$ ($m \equiv |J|$).
- K Conjunto de sedes o encuentros (Venue): $k = 1, \dots, l$ ($l \equiv |K|$).
- $n_{j,k}$ Número máximo de voluntarios que pueden participar en el tipo de tarea $j \in J$ de la sede o encuentro $k \in K$. Equivale al número de puestos de trabajo disponibles para realizar la tarea tipo $j \in J$ en la sede $k \in K$.
- N Número máximo de voluntarios que pueden participar en el Evento. Equivale al número de puestos de trabajo disponibles en el Evento: $N = \sum_{j \in J} \sum_{k \in K} n_{j,k}$.
- $p_{i,j}$ Puntuación que obtiene el voluntario $i \in I$ para realizar la tarea tipo $j \in J$ en base a sus habilidades y aptitudes. Es la Aptitud (fitness) del voluntario $i \in I$ para realizar la tarea tipo $j \in J$. En este trabajo supondremos que los valores de $p_{i,j}$ son valores enteros entre 0 y 100: $p_{i,j} \in [0,100] \wedge Z$.
- \hat{p}_j Nota de corte asociada a la tarea tipo $j \in J$ en base a las exigencias de la Organización. Equivale al umbral de puntuación que debe acreditar todo voluntario $i \in I$ para ser seleccionado a un puesto de trabajo con tareas tipo $j \in J$. En este trabajo supondremos que los valores de \hat{p}_j son homogéneos y enteros entre 0 y 100: $\hat{p} = \hat{p}_j \in [0,100] \wedge Z$.
- $a_{i,j}$ Grado de satisfacción que obtiene el voluntario $i \in I$ cuando realiza la tarea tipo $j \in J$. También expresa el grado de deseo que tiene un voluntario por realizar una tarea. En general se debe cumplir: $a_{i,j} \in [0,10] \wedge Z$. En este trabajo supondremos que los valores de $a_{i,j}$ son binarios: $a_{i,j} \in \{0,1\}$.
- $b_{i,k}$ Grado de satisfacción que obtiene el voluntario $i \in I$ cuando participa en el encuentro $k \in K$. También expresa el grado de deseo que tiene un voluntario por estar presente en una sede o encuentro. En general se debe cumplir: $b_{i,k} \in [0,10] \wedge Z$. En este trabajo supondremos que los valores de $b_{i,k}$ son binarios: $b_{i,k} \in \{0,1\}$.
- $f_{i,j,k}$ Aptitud (Fitness) del voluntario $i \in I$ para realizar la tarea tipo $j \in J$ en el encuentro o sede $k \in K$. Se calcula así: $f_{i,j,k} = a_{i,j} b_{i,k} p_{i,j}$.

Variables:

- $F(\hat{p})$ Aptitud global del voluntariado ante tareas y sedes en función de la nota de corte homogénea \hat{p} .
- $x_{i,j,k}$ Variable binaria que vale 1 si al voluntario $i \in I$ se le asigna una tarea tipo $j \in J$ en el encuentro o sede $k \in K$, y vale 0 en caso contrario.
- $X(\hat{p})$ Número de voluntarios que participan en el Evento en función de la nota de corte \hat{p} .

Modelo MILP:

MILP-2 (v.1): $a_{i,j} \in \{0,1\}; b_{i,k} \in \{0,1\}; \hat{p} = \hat{p}_j \in [0,100] \wedge Z$

$$\max F(\hat{p}) = \sum_{i=1}^n \sum_{j=1}^m \sum_{k=1}^l f_{i,j,k} x_{i,j,k} \quad (1)$$

Subject to:

$$\sum_{k=1}^l x_{i,j,k} \leq a_{i,j} \quad \forall i = 1, \dots, n \quad \forall j = 1, \dots, m \quad (2)$$

$$\sum_{j=1}^m x_{i,j,k} \leq b_{i,k} \quad \forall i = 1, \dots, n \quad \forall k = 1, \dots, l \quad (3)$$

$$\sum_{i=1}^n x_{i,j,k} \leq n_{j,k} \quad \forall j = 1, \dots, m \quad \forall k = 1, \dots, l \quad (4)$$

$$\hat{p}_j \sum_{k=1}^l x_{i,j,k} \leq p_{i,j} \quad \forall i = 1, \dots, n \quad \forall j = 1, \dots, m \quad (5)$$

$$X(\hat{p}) - \sum_{i=1}^n \sum_{j=1}^m \sum_{k=1}^l x_{i,j,k} = 0 \quad (6)$$

$$x_{i,j,k} \in \{0,1\} \quad \forall i = 1, \dots, n \quad \forall j = 1, \dots, m \quad \forall k = 1, \dots, l \quad (7)$$

Anexo II. Fuente de datos y dimensión

Los valores de los parámetros se han obtenido desplegando las etapas 1-5 de la metodología usada para la elaboración de la base de datos FIBA-2014BWC-Spain [1-2]. Dichas etapas son:

Etapas-1: Primero, se diseñan los perfiles de los voluntarios ajustados al conjunto de tareas que se van a desarrollar durante el Evento, quedando definido el conjunto J . Segundo, se fija el conjunto de sedes o encuentros del Evento, quedando definido el conjunto K .

Etapas-2: Se determina el número de puestos de trabajo asociados a cada tarea tipo $j \in J$ y en cada encuentro o sede $k \in K$, quedando definidos los valores de los parámetros $n_{j,k}$.

Etapas-3: Se elabora la lista de voluntarios con sus habilidades para participar en el Evento, quedando definido el conjunto I . Además, gracias a la información aportada por todo voluntario a través de su solicitud para acceder a todo puesto de trabajo en toda sede, quedan registrados los valores de los parámetros $a_{i,j}$ (voluntario-tarea) y $b_{i,k}$ (voluntario-sede).

Etapas-4: Se evalúa a todos los voluntarios (elementos del conjunto I) en función de su Aptitud para desempeñar las tareas (elementos del conjunto J) que requiere el Evento. Este hecho se concreta en dar una puntuación, $p_{i,j}$, a cada voluntario $i \in I$ para cada tarea tipo $j \in J$, en función de la información aportada por éste en su solicitud para optar a un puesto de trabajo.

Etapas-5: Se determina la Aptitud ($f_{i,j,k}$) de todo voluntario $i \in I$ para realizar la tarea tipo $j \in J$ en la sede $k \in K$, a partir de la terna de valores paramétricos ($a_{i,j}, b_{i,k}, p_{i,j}$) fijados en las etapas 3 y 4. En definitiva: $f_{i,j,k} = a_{i,j}b_{i,k}p_{i,j} \forall i \in I, \forall j \in J, \forall k \in K$.

Para este trabajo hemos resuelto las instancias #1.1 a #1.10, extraídas de la base de datos FIBA-2014BWC-Spain, adaptándolas al modelo MILP-2 (v.2). Brevemente, las dimensiones del modelo son:

- (1) Número de voluntarios participantes: $n = 14.774$
- (2) Número de tipos de tareas: $m = 14$
- (3) Número de sedes: $l = 6$
- (4) Número de puestos de trabajo: $N = 2148$
- (5) Número de variables: 1.241.016 binarias, 1 real y 1 entera
- (6) Número de restricciones: 221.695
- (7) Número de escenarios: $|E| = 11$ ($\varepsilon = 0, \dots, 10$). Cada escenario corresponde a una nota de corte limitativa: $\hat{p} = \hat{p}_j = \{0, 10, 20, 30, 40, 50, 60, 70, 80, 90\}$.

Anexo III. Explotación y resultados

Los códigos compilados para el procedimiento propuesto [3] se han ejecutado en un DELL Inspiron-13 (Intel(R) Core(TM) i7-7500U @ 2.70 GHz CPU 2.90 GHz, 16 GB of RAM, x64 Windows 10 Pro). Las características del procedimiento son:

- (1) Modelo: MILP-2 (v.2): $a_{i,j} \in \{0,1\}$; $b_{i,k} \in \{0,1\}$; $\hat{p} = \hat{p}_j \in [0,100] \wedge Z$.
- (2) Objetivo: minimizar $F(\hat{p})$.
- (3) Solucionador: IBM ILOG CPLEX solver (Optimization Studio v.12.2, win-x86-64).
- (4) Tiempo de CPU máximo concedido igual a 300 segundos para cada instancia #1. ε (11 instancias: #1.0 to #1.10).

La Tabla III.1 muestra los resultados obtenidos con CPLEX para las instancias #1.0-#1.10 (FIBA-2014BWC-Spain) y el modelo MILP-2 (v.2). Las columnas de la tabla se refieren a las características siguientes:

$\varepsilon \in E$	Número identificador de la instancia para los escenarios $\varepsilon = 0, \dots, 10$.
$p = \hat{p}_j$	Nota de corte aplicada en la selección de voluntarios en los 11 escenarios $\hat{p} = \hat{p}_j = \{0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100\}$
N	Número de puestos de trabajo disponibles en el Evento.
$F^*(\hat{p})$	Valor óptimo de $F(\hat{p})$ en función de \hat{p} .
$X(\hat{p})$	Número de voluntarios seleccionados para el Evento en función de \hat{p} .
$X(\hat{p})/N$	Ratio o Nivel de ocupación de puestos de trabajo en el Evento en función de \hat{p} .
$CPU (s)$	Tiempo de CPU en segundos.

Tabla 1 Resultados para las instancias #1. ε (#1.0 - #1.10 FIBA-2014BWC-SPAIN) con MILP-2 (v.2), (300 s. CPU max)

$\varepsilon \in E$	$p = \hat{p}_j$	N	$F^*(\hat{p})$	$X(\hat{p})$	$X(\hat{p})/N$	$CPU (s)$
0	0	2148	176912	2148	1.000	2.61
1	10	2148	176912	2148	1.000	4.20
2	20	2148	176912	2148	1.000	5.28
3	30	2148	176912	2148	1.000	4.55
4	40	2148	176912	2148	1.000	3.48
5	50	2148	176544	2140	0.996	3.00
6	60	2148	176274	2135	0.994	2.52
7	70	2148	162471	1930	0.899	1.91
8	80	2148	130083	1503	0.700	1.50
9	90	2148	24349	262	0.122	1.23
10	100	2148	1000	10	0.005	0.88
<i>Average</i>	50	2148	141389	1702	0.792	2.86
<i>Max</i>	100	2148	176912	2148	1.000	5.28
<i>Min</i>	0	2148	1000	10	0.005	0.88

Anexo IV. Asignaciones

Instancias #1.0 a #1.4 (Sede, Tarea, Voluntario)

Nro vol. : 14774

Nro sede : 6

Nro task : 14

P_cut : 40

F_tot : 176912

X_tot : 2148

CPU 1(s) : 0

CPU 2(s) : 11,16

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Instancia #1.5 (Sede, Tarea, Voluntario)

Nro vol. : 14774

Nro sede : 6

Nro task : 14

P_cut : 50

F_tot : 176544

X_tot : 2140

CPU 1(s) : 0

CPU 2(s) : 9,24

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Instancia #1.6 (Sede, Tarea, Voluntario)

Nro vol. : 14774

Nro sede : 6

Nro task : 14

P_cut : 60

F_tot : 176274

X_tot : 2135

CPU 1(s) : 0

CPU 2(s) : 9,39

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Instancia #1.7 (Sede, Tarea, Voluntario)

Nro vol. : 14774

Nro sede : 6

Nro task : 14

P_cut : 70

F_tot : 162471

X_tot : 1930

CPU 1(s) : 0

CPU 2(s) : 8,75

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Instancia #1.8 (Sede, Tarea, Voluntario)

Nro vol. : 14774

Nro sede : 6

Nro task : 14

P_cut : 80

F_tot : 130083

X_tot : 1503

CPU 1(s) : 0

CPU 2(s) : 10,91

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6 3 12536, 6 3 12537, 6 3 12582, 6 3 12592, 6 3 12650, 6 3 12668, 6 3 12725, 6 3 12734,
6 3 12760, 6 3 12799, 6 3 12946, 6 3 12961, 6 3 14071, 6 3 14577, 6 4 12021, 6 4 12054,
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6 6 12492, 6 6 12597, 6 6 12924, 6 6 12942, 6 6 13484, 6 6 13672, 6 6 14358, 6 6 14361,
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6 11 13204, 6 11 13220, 6 11 13323, 6 11 13735, 6 11 14090, 6 11 14328, 6 11 14556, 6 11 14596,
6 11 14665, 6 12 11886, 6 12 11942, 6 12 12001, 6 12 12135, 6 12 12331, 6 12 12472, 6 12 12502,

6 12 12520, 6 12 12529, 6 12 12593, 6 12 12651, 6 12 12661, 6 12 12828, 6 12 12947, 6 12 13084,
6 12 13116, 6 12 13592, 6 12 13918, 6 12 14188, 6 12 14384, 6 12 14425, 6 12 14757, 6 13 12552,
6 13 12568, 6 13 12747, 6 13 13443, 6 13 14613, 6 14 12804, 6 14 13474, 6 14 13951

Instancia #1.9 (Sede, Tarea, Voluntario)

Nro vol. : 14774

Nro sede : 6

Nro task : 14

P_cut : 90

F_tot : 24349

X_tot : 262

CPU 1(s) : 0

CPU 2(s) : 7,33

1 1 336, 1 1 436, 1 2 124, 1 2 483, 1 2 795, 1 3 184, 1 3 857, 1 3 13099,
1 3 14071, 1 4 83, 1 4 204, 1 4 462, 1 4 13021, 1 4 14019, 1 4 14272, 1 5 78,
1 5 191, 1 5 558, 1 5 796, 1 5 12983, 1 5 13952, 1 6 108, 1 6 290, 1 6 13000,
1 6 13562, 1 7 715, 1 8 716, 1 9 144, 1 9 250, 1 9 501, 1 9 649, 1 9 14324,
1 10 395, 1 10 13225, 1 11 13735, 1 11 13765, 1 12 13226, 2 1 14035, 2 2 917, 2 2 1259,
2 2 1288, 2 2 1417, 2 2 1538, 2 2 1549, 2 2 1743, 2 4 1846, 2 4 13767, 2 5 1390,
2 5 1929, 2 5 1939, 2 6 993, 2 6 1064, 2 6 1735, 2 9 935, 2 9 1859, 2 9 13286,
2 9 13558, 2 9 14541, 2 10 1183, 2 10 1713, 2 13 1317, 2 14 1009, 3 2 2533, 3 2 2964,
3 2 3086, 3 2 3240, 3 2 3358, 3 2 3380, 3 2 3518, 3 2 3540, 3 2 3783, 3 2 4733,
3 2 13523, 3 3 4305, 3 4 2116, 3 4 2467, 3 4 2654, 3 4 2782, 3 4 3383, 3 4 4310,
3 5 2203, 3 5 2205, 3 5 2446, 3 5 2516, 3 5 2714, 3 5 3909, 3 5 4226, 3 5 4434,
3 5 4494, 3 5 4495, 3 6 2468, 3 6 3026, 3 6 3340, 3 6 13019, 3 7 3698, 3 7 3768,
3 7 3997, 3 7 4645, 3 8 2238, 3 8 3306, 3 8 4006, 3 8 4108, 3 8 4148, 3 9 2260,
3 9 2272, 3 9 2402, 3 9 2710, 3 9 2958, 3 9 3210, 3 9 3482, 3 9 3754, 3 10 2183,
3 10 2256, 3 10 2286, 3 10 2302, 3 10 2721, 3 10 3777, 3 10 4133, 3 11 1984, 3 11 3527,
3 11 4592, 3 12 3748, 3 12 4549, 4 1 5819, 4 1 7472, 4 2 5010, 4 2 5031, 4 2 5183,
4 2 5333, 4 2 5339, 4 2 5771, 4 2 5814, 4 2 5946, 4 2 6112, 4 2 6219, 4 2 6376,
4 2 6847, 4 2 7037, 4 2 7226, 4 3 5253, 4 3 5650, 4 3 5670, 4 3 5802, 4 3 6392,
4 3 7141, 4 4 5930, 4 4 6017, 4 4 6420, 4 5 5586, 4 5 6210, 4 5 6364, 4 5 6616,
4 6 5667, 4 7 5581, 4 7 7925, 4 8 5818, 4 8 6279, 4 8 6701, 4 8 7350, 4 8 7748,
4 9 5149, 4 9 5872, 4 9 6032, 4 9 6446, 4 9 6581, 4 9 6588, 4 9 6975, 4 9 7466,
4 9 7722, 4 9 7763, 4 10 5738, 4 10 6208, 4 11 6650, 4 11 6728, 4 11 6840, 4 11 6964,
4 11 7968, 4 12 5591, 4 12 7669, 4 14 5138, 5 1 8715, 5 2 8553, 5 2 9252, 5 2 9585,
5 2 10350, 5 2 11379, 5 2 11482, 5 2 11803, 5 2 13338, 5 3 10865, 5 3 11222, 5 4 8017,
5 4 8050, 5 4 8195, 5 4 9136, 5 4 9616, 5 4 9719, 5 4 10630, 5 4 11053, 5 4 11096,
5 4 11811, 5 5 8156, 5 5 9006, 5 5 9183, 5 5 9398, 5 5 10575, 5 5 10861, 5 5 11330,
5 6 9634, 5 6 11024, 5 6 11451, 5 8 10024, 5 8 10189, 5 8 11040, 5 9 8165, 5 9 9320,
5 9 10234, 5 9 10253, 5 9 10531, 5 9 10641, 5 9 10673, 5 9 10735, 5 9 10794, 5 9 11563,
5 10 11709, 5 11 8393, 5 11 10183, 5 11 10633, 5 11 11219, 5 12 10039, 5 14 8234, 5 14 9487,
6 1 12890, 6 2 11888, 6 2 12107, 6 2 12354, 6 2 12888, 6 2 12939, 6 3 12061, 6 3 12313,
6 3 12592, 6 3 12734, 6 4 12021, 6 4 12213, 6 5 11993, 6 5 12359, 6 5 12378, 6 5 12607,
6 5 12672, 6 6 12323, 6 8 11960, 6 9 11985, 6 9 12526, 6 9 12786, 6 9 12927, 6 9 13531,
6 9 13617, 6 10 12068, 6 10 12593, 6 11 12185, 6 11 12959, 6 12 12001

Instancia #1.10 (Sede, Tarea, Voluntario)

Nro vol. : 14774

Nro sede : 6

Nro task : 14

P_cut : 100

F_tot : 1000

X_tot : 10

CPU 1(s) : 0

CPU 2(s) : 6,92

1 3 14071, 1 9 14324, 2 14 1009, 3 2 3540, 4 2 5333, 4 4 6017, 4 9 6588, 5 2 11803,
5 9 9320, 6 5 11993

Agradecimientos:

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