

Scientific Program Schedule

Friday

9h15 – 9h30

Opening Session

(Auditório E)

Chairperson: Pinto Ferreira, E.; Valério de Carvalho, J.M.

– Welcome

9h30 – 10h45

Session 1

(Auditório E)

Chairperson: Wäscher, Gerhard

- 1.1** – The ESICUP database of C & P literature - structure and current status
Wäscher, Gerhard; Haussner, Heike
- 1.2** – Packing a trunk - repeatedly
Fekete, Sándor P.; Gührer, Anton; Neumann, Ulla; van der Veen, Jan C.
- 1.3** – An algorithm for the cardinality constrained bin-packing problem
Muraoka, Hideki; Pedroso, João Pedro; Ohnishi, Makoto; Kubo, Mikio

11h15 – 12h30

Session 2

(Auditório E)

Chairperson: Kendall, Graham

- 2.1** – Tools of mathematical modelling of interaction of composed 2D geometric objects
Romanova, T.; Stoyan, Yu.; Gil, N.; Scheithauer, G.
- 2.2** – A new algorithm for the generation of the line-arc no fit polygon
Burke, E.K.; Hellier, R.S.R; Kendall, G.; Whitwell, G.
- 2.3** – A beam search implementation for nesting problems
Bennell, J.A.; Song, X.

13h30 – 14h45

Session 3a

(Auditório E)

Chairperson: Alvarez-Valdes, R.

- 3a.1** – A GRASP algorithm for the strip packing problem
Parreño, F.; Alvarez-Valdes, R.; Tamarit, J.M.
- 3a.2** – Constructive heuristics for bin packing problem solving: south-west angel method and ant colony method
Valeeva, A.F.; Mukhacheva, E.A.; Polyakovsky, S.J
- 3a.3** – One-dimensional heuristics adapted for two-dimensional rectangular strip packing
Belov, G.; Scheithauer, G.; Mukhacheva, E.A.

Session 3b

(Sala de Actos)

Chairperson: Alves, Cláudio

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- 3b.1** – A branch-and-price framework to solve a class of assortment problems
Arbib, Claudio; Marinelli, Fabrizio
- 3b.2** – On hierarchical waste-and-pattern minimization with two part types per stock item
Aloisio, Alessandro; Arbib, Claudio; Marinelli, Fabrizio
- 3b.3** – A stabilized branch-and-price-and-cut algorithm for the multiple length cutting stock problem
Alves, Cláudio; Valério de Carvalho, J.M.

15h15 – 16h30**Session 4a**

(Auditório E)

Chairperson: Bortfeldt, A.

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- 4a.1** – A method of covering a polygonal region with a given number of equal circles of minimal radius
Patsuk, V.; Stoyan, Yu.
- 4a.2** – Parallel greedy algorithms for packing unequal circles into a strip or a rectangle
Kubach, T.; Bortfeldt, A.; Gehring, H.
- 4a.3** – Covering a set of axis-aligned rectangles with fewer rectangles
Novikov, Boris; Vyatkina, Kira

Session 4b

(Sala de Actos)

Chairperson: Diegel, Adolf

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- 4b.1** – A grouping method for 1DCSP
Kartak, Vadim
- 4b.2** – New ways in determining number of cutting-loading patterns
Györfi, Jenő
- 4b.3** – First- and second-stage optimization in the cutting stock problem
Diegel, Adolf; Dixon, Mark; Miller, Garth; Montocchio, E.; van Schalkwyk, Sias; Diegel, Olaf

17h00 – 18h15**Session 5a**

(Auditório E)

Chairperson: van der Veen, Jan C.

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- 5a.1** – A hybrid random key based genetic algorithm for the container loading problem
Gonçalves, José Fernando
- 5a.2** – A heuristic approach to container loading problem with load bearing strength considerations
Moura, Ana; Oliveira, José Fernando
- 5a.3** – A hybrid tabu search for three-dimensional container loading problem
Liu, Jiamin; Yue, Yong; Zongran, Dong

Session 5b

(Sala de Actos)

Chairperson: Pisinger, David

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- 5b.1** – On constructive patterns for the cutting stock problem: the two-dimensional case
Cantarino Gil, José Nilton; Arantes de Oliveira, Marcelo; Soma, Nei Yoshihiro
- 5b.2** – Using a heuristic algorithm for two dimensional cutting stock problem: car company application
Yazdi, Mohammad M.; Lotfaliei, Babak; Tehrani, Behdad M.; Taghdisiyan, Sepehr
- 5b.3** – A sequence-pair heuristic for the two-dimensional knapsack packing problem
Egeblad, Jens; Pisinger, David
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Saturday

9h30 – 10h45

Session 6

(Auditório E)

Chairperson: Scheithauer, G.

- 6.1** – Packing various nD-parallelepipeds into a nD-parallelepiped
Stoyan, Yu.; Gil, N.; Sofronova, M.
- 6.2** – Packing of nonconvex polytopes into a parallelepiped
Pankratov, A.; Stoyan, Yu.; Gil, N.; Scheithauer, G.
- 6.3** – Three-dimensional knapsack packing of non-box shapes
Egeblad, Jens; Pisinger, David

11h15 – 12h30

Session 7a

(Auditório E)

Chairperson: Bennell, J.A

- 7a.1** – Heuristics and metaheuristics to solve cut order planning
Bouziri, Ahlem; M'Hallah, Rym
- 7a.2** – Memetic algorithms applied to cutting path determination problems
Soeiro Ferreira, José António; Rodrigues, Ana Maria Moreira
- 7a.3** – Concordance and discordance of objective functions for cutting stock problems
Fabian, Csaba Bela

Session 7b

(Sala de Actos)

Chairperson: Valério de Carvalho, J.M.

- 7b.1** – On graph-theoretical models for k-dimensional guillotine-cutting problems
Clautiaux, François; Moukrim, Aziz
- 7b.2** – Two-dimensional bin-packing problem, the non-oriented case
El Hayek, J.; Moukrim, A.; Negre, S.
- 7b.3** – Approximate and exact algorithms for the double-constrained 2-dimensional CSP
Hifi, Mhand; M'Hallah, Rym; Saadi, Toufik

12h30 – 13h00

Closing Session

(Auditório E)

Chairperson: Oliveira, José F.

– ESICUP Business