

Complete list of publications

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International journals

- [1] E. Giabiconi, —, and R. Brauner. Models for predicting the adult height and age at first menstruation of girls with idiopathic central precocious puberty. *PLOS ONE*, 10(3), April 2015. doi:10.1371/journal.pone.0120588, <http://www.ncbi.nlm.nih.gov/pubmed/25837693>, hal-01139783.
- [2] —, D. Pierre, J.-B. Bertrand, and R. Brauner. A mathematical model for predicting the adult height of girls with advanced puberty after spontaneous growth. *BMC Pediatrics*, 172, 2014. doi:10.1186/1471-2431-14-172, <http://www.biomedcentral.com/1471-2431/14/172>, hal-01064421.
- [3] O. Guyon, —, E. Pinson, and D. Rivreau. Solving an integrated job-shop problem with human resource constraints. *Annals of Operations Research*, pages 147–171, February 2014. doi:10.1007/s10479-012-1132-3, emse-00707504.
- [4] L.-L. Pham, —, A. Harroche, J.-C. Souberbielle, and R. Brauner. Pituitary stalk interruption syndrome in 53 postpubertal patients: Factors influencing the heterogeneity of its presentation. *PLOS ONE*, 8(1):e53189, January 2013. doi:10.1371/journal.pone.0053189, hal-00787728.
- [5] A. Salch, J.-P. Gayon, and —. Optimal static priority rules for stochastic scheduling with impatience. *Operations Research Letters*, 41(1):81–85, 2013. doi:10.1016/j.orl.2012.11.008, hal-00787633.
- [6] —. Extensions of logical analysis of data for growth hormone deficiency diagnoses. *Annals of Operations Research*, 186(1):199–211, 2011. doi:10.1007/s10479-011-0901-8, hal-00608742.
- [7] S. Laporte, A.-C. Couto-Silva, S. Trabado, —, S. Brailly-Tabard, H. Espérou, J. Michon, A. Baruchel, A. Fischer, C. Trivin, and R. Brauner. Inhibin b and anti-müllerian hormone as markers of gonadal function after hematopoietic cell transplantation during childhood. *BMC Pediatrics*, 11(20), 2011. doi:10.1186/1471-2431-11-20, <http://www.biomedcentral.com/1471-2431/11/20>, hal-00575966.
- [8] S. Allali, —, A.-C. Couto-Silva, G. Prété, C. Trivin, and R. Brauner. Prediction of differences between adult and target heights and time between puberty onset and first menstruation in 122 girls with precocious puberty after a positive review. *Medical Science Monitor*, 17(4):PH41–48, 2011. <http://www.medscimonit.com/fulltxt.php?ICID=881794>, hal-00575962.
- [9] O. Guyon, —, E. Pinson, and D. Rivreau. Cut generation for an integrated employee timetabling and production scheduling problem. *European Journal of Operational Research*, 201(2):557–567, 2010. doi:10.1016/j.ejor.2009.03.013, hal-00377197.
- [10] G. Finke, —, J.-M. Proth, and M. Queyranne. Minimizing the number of machines for minimum length schedules. *European Journal of Operational Research*, 199(3):702–705, 2009. doi:10.1016/j.ejor.2006.11.050, hal-00361039.
- [11] —, N. Brauner, P. Hammer, C. Trivin, J.-C. Souberbielle, and R. Brauner. Improved screening for growth hormone deficiency using logical analysis of data. *Medical Science Monitor*, 15(1):MT5–10, 2009. <http://www.medscimonit.com/fulltxt.php?ICID=869515>, hal-00326948.
- [12] A.-C. Couto-Silva, C. Trivin, H. Esperou, J. Michon, A. Baruchel, —, and R. Brauner. Final height and gonad function after total body irradiation during childhood. *Bone Marrow Transplant*, 38:427–432, 2006. doi:10.1038/sj.bmt.1705455, hal-00361043.
- [13] —, G. Finke, and N. Brauner. Models and Complexity of Multibin Packing Problems. *Journal of Mathematical Modelling and Algorithms*, 5(3):353–370, 2006. doi:10.1007/s10852-005-9025-y, hal-00179116.

- [14] N. Brauner, Y. Crama, G. Finke, —, and C. Wynants. Approximation Algorithms for the Design of SONET Networks. *RAIRO Operations Research*, 37(4):235–247, 2003. doi:10.1051/ro:2004003, hal-00358567.

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- [15] —, G. Finke, and N. Brauner. The Best-Fit Rule for Multibin Packing: An extension of Graham’s list algorithms. In G. Kendall, E. Burke, S. Petrovic, and M. Gendreau, editors, *Multidisciplinary Scheduling; Theory and Applications*, pages 269–286. Springer, 2005. doi:10.1007/0-387-27744-7_13, hal-00361111.

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- [16] K. Dequeant, —, M.-L. Espinouse, and P. Vialletelle. A literature review on variability in semiconductor manufacturing: The next forward leap to industry 4.0. In *MASM’16, 12th International Conference on Modeling and Analysis of Semiconductor Manufacturing*, Washington D.C, U.S.A, 11-14 December 2016.
- [17] K. Dequeant, —, M.-L. Espinouse, and P. Vialletelle. Le WIP concurrent : une proposition de file d’attente du point de vue du produit pour caracteriser le temps de cycle. In *MOSIM’16, 11th International Conference on Modeling, Optimization & SIMulation*, Montreal, Canada, 22-24 August 2016. hal-01382632.
- [18] N. Catusse, H. Cambazard, N. Brauner, —, B. Penz, A.-M. Lagrange, and P. Rubini. A branch-and-price algorithm for scheduling observations on a telescope. In *IJCAI’16, Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence*, pages 3060–3066, New-York, USA, 9-15 July 2016. hal-01381636.
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- [20] A. Salch, J.-P. Gayon, and —. An optimal static priority rule for stochastic scheduling with impatience. In *INCOM 2012, 14th IFAC Symposium on Information Control Problems in Manufacturing*, volume 14, pages 105–110, Bucharest, Romania, 23-25 May 2012. doi:10.3182/20120523-3-R0-2023.00139, hal-00787687.
- [21] O. Guyon, —, E. Pinson, and D. Rivreau. Near optimal and optimal solutions for an integrated employee timetabling and production scheduling problem. In *INCOM’09, 13th IFAC Symposium on Information Control Problems in Manufacturing*, Moscow, Russia, 3-5 June 2009. doi:10.3182/20090603-3-RU-2001.00252, hal-00481465.
- [22] O. Guyon, —, E. Pinson, and D. Rivreau. Couplage planification/ordonnancement : une approche par décomposition et génération de coupes. In *MOSIM’08, 7ème Conférence Internationale de Modélisation et Simulation*, volume 2, pages 1376–1385, Paris, France, 31 March-2 April 2008. hal-00363588.
- [23] —, G. Finke, J.-M. Proth, and M. Queyranne. Minimiser le nombre de machines pour des ordonnancements de durée minimale. In A. Dolgui and S. Dauzère-Pérès, editors, *MOSIM 2004, Actes de la 5e conférence francophone de MODélisation et SIMulation*, volume 1, pages 495–500, Nantes, France, 1-3 September 2004. hal-00363823.
- [24] —, G. Finke, and N. Brauner. Multibin Packing with the Best-Fit Rule. In G. Kendall, E. Burke, and S. Petrovic, editors, *MISTA’03, The 1st Multidisciplinary International Conference on Scheduling : Theory and Applications*, volume 1, pages 74–88, Nottingham, UK, 13–16 August 2003. hal-00363834.

- [25] —, G. Finke, and N. Brauner. Packing of Multibin Objects. In *IEPM'03, International Conference on Industrial Engineering and Production Management*, volume 1, pages 422–431, Porto, Portugal, 26-28 May 2003. hal-00363842.

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- [26] *Ordonnancement de tâches à durées contrôlables*, ROADeF, Metz, France, 22-23 February 2017.
- [27] *SPOT: an optimization software for dynamic observation programming*, Edinburgh, United Kingdom, 18 July 2016. doi:10.1117/12.2241197, hal-01398862.
- [28] *Star Scheduling*, MAPSP, La Roche-en-Ardenne, Belgium, 8–12 June 2015. hal-01237688.
- [29] *Ordonnanceur d'étoiles*, ROADeF, Marseille, France, 2015. hal-01278127.
- [30] *Analyse économétrique des solutions d'un CVRP*, ROADeF, Marseille, France, 25-27 February 2015. hal-01139790.
- [31] *An economic efficiency analysis of the capacitated vehicle routing problem*, ECCO, München, Germany, 1-3 May 2014. hal-01019515.
- [32] *Dynamic control of a multi class G/M/1+M queue with abandonments*, StocMod12, Paris, France, 30 May-1 June 2012. hal-00787835.
- [33] *Branch and Bound hybride pour un problème de job-shop soumis à des contraintes de ressources humaines*, ROADeF, Angers, France, 11-13 April 2012. emse-00688219.
- [34] *Ordonnancement stochastique avec abandon*, ROADeF, Angers, France, 11-13 April 2012. hal-00787711.
- [35] *Résolution d'un problème multi-niveaux décisionnels de Localisation et Routage*, ROADeF, Saint-Etienne, France, 2-4 March 2011. hal-00576021.
- [36] *Solving an integrated Job-Shop problem with human resource constraints*, PMS, Tours, France, 26-28 April 2010. hal-00477252.
- [37] *Factors predicting the adult height and the age at first menstruation in 139 girls with idiopathic central precocious puberty (CPP)*, ESPE, New York, New York, 9-12 September 2009. hal-00477249.
- [38] *A new lower bound for bin packing problem with general conflicts graph*, EURO XXIII, Bonn, Germany, 5-8 July 2009. hal-00403044.
- [39] *Résolution d'un problème de Job-Shop intégrant des contraintes de Ressources Humaines*, ROADeF, Nancy, France, 10-12 February 2009. hal-00363865.
- [40] *Planification d'agents et ordonnancement de production : règles d'élimination et heuristique*, ROADeF, Clermont-Ferrand, France, 25-27 February 2008. hal-00363872.
- [41] *Extensions of Logical Analysis of Data for Medical Applications*, ICCOPT-MOPTA, Hamilton, Canada, 13-16 August 2007. hal-00363877.
- [42] *Some Boolean successes in medical research*, EURO XXII, Prague, Czech Republic, 8-11 July 2007. hal-00262107.
- [43] *Analyse Combinatoire de Données : vers une résolution automatique des problèmes de grande taille*, Francoro V / ROADeF, Grenoble, France, 20-23 February 2007. hal-00353035.
- [44] *Logical Analysis of Medical Data*, EURO XXI, Reykjavik, Iceland, 2-5 July 2006. hal-00363888.
- [45] *Régression combinatoire*, ROADeF, Lille, France, 6-8 February 2006. hal-00363891.
- [46] *Feature Selection with the Logical Analysis of Data*, INFORMS Annual Meeting, New-Orleans / San Francisco, U.S.A., 13-16 November 2005. hal-00363894.

- [47] *Heuristiques pour le rangement d'objets multi-boîtes*, ROADeF, Tours, France, 14-16 February 2005. hal-00363898.
- [48] *Rangements d'objets multiboîtes, flots et facteurs de graphes*, Francoro IV, Fribourg, Suisse, 18-21 August 2004. hal-00363996.
- [49] *Approximation Algorithms for the Packing of Multibin Objects*, Scheduling in Computer and Manufacturing Systems (Dagstuhl Seminar Proceedings), Dagstuhl, Germany, 2004. <http://drops.dagstuhl.de/opus/volltexte/2004/8>, hal-00364010.
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- [53] *Relaxing multiprocessor scheduling to multibin packing problems*, Scheduling in Computer and Manufacturing Systems (Dagstuhl Seminar Proceedings), Dagstuhl, Germany, June 2002. hal-00364016.
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- [55] *Packing of multi-bin objects*, CO, International Symposium on Combinatorial Optimization, Paris, France, 8-10 April 2002. hal-00364032.
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- [58] —. *Rangements d'objets multiboîtes : modèles et algorithmes*. PhD thesis, Université Joseph Fourier (Grenoble 1), Grenoble, France, September 2004. tel-00006893.
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- [60] N. Brauner and —. *A Set-Covering Approach for SONET Network Design*. Technical Report 62, Cahiers du Laboratoire Leibniz-IMAG, October 2002. hal-00082799.

Miscellaneous

- [61] *Utilisation de l'Analyse Logique de Données pour la classification et l'explication*. Séminaire du LaMI, 3 May 2005.
- [62] *L'analyse logique de données*. Séminaire du TIMC, 4 January 2005.
- [63] *Les chiffres : que sont-ils, d'où viennent-ils ?* Petites thèses du Leibniz-IMAG, 10 December 2003.
- [64] *La RO mise en boîte*. Petites thèses du Leibniz-IMAG, 13 & 20 November 2002.
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Softwares

- [66] The `ladoscope` gang: tools for the logical analysis of data. OCaml, GNU General Public License. <http://www.kamick.org/lemaire/software-lad.html>.
- [67] Approximation algorithms for multibin packing problems. OCaml, GNU General Public License. <http://www.kamick.org/lemaire/software-mbp.html>.
- [68] Approximation algorithms for SONET network design. C++, domaine public. <http://www.kamick.org/lemaire/software-kep.html>.

Patents

- [69] D. Daste, C. Guéret, and —. Procédé d'optimisation d'ordonnancement de traitement de tâches et utilisation d'un tel procédé pour ordonnancer les tâches de fabrication de pièces en matériaux composites, 2009. Brevet FR2932587 / WO2009153508.