

## Books and book editing

1. V. Th. Paschos, B. Ries, *Techniques algorithmiques pour l'optimisation combinatoire*, Hermès Science, Paris (in press).
2. V. Th. Paschos (ed.), *Combinatorial Optimization Volume 1, Concepts of Combinatorial Optimization*, Wiley – ISTE, London, 2010. Second edition 2014.
3. V. Th. Paschos (ed.), *Combinatorial Optimization Volume 2, Paradigmatic Problems and New Approaches*, Wiley – ISTE, London, 2010. Second edition 2014.
4. V. Th. Paschos (ed.), *Handbook of Combinatorial Optimization: Applications*, Wiley – ISTE, London, 2010. Second edition 2014.
5. V. Th. Paschos (ed.), *Combinatorial Optimization and Theoretical Computer Science: Interfaces and Perspectives*, Wiley - ISTE, 2008.
6. V. Th. Paschos (ed.), *Optimisation combinatoire : problèmes paradigmatiques*, Hermès Science, Paris, 2007.
7. V. Th. Paschos (ed.), *Optimisation combinatoire : problèmes paradigmatiques et nouvelles problématiques*, Hermès Science, Paris, 2007.
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10. V. Th. Paschos (ed.), *Optimisation combinatoire : concepts avancés*, Hermès Science, Paris, 2005.
11. V. Th. Paschos (ed.), *Optimisation combinatoire : applications*, Hermès Science, Paris, 2005.
12. V. Th. Paschos, *Complexité et approximation polynomiale*, Hermès Science, Paris, 2004.
13. J. Monnot, V. Th. Paschos, S. Toulouse, *Approximation polynomiale des problèmes NP-difficiles : optima locaux et rapport différentiel*, Hermès Science, Paris, 2003.

## Book chapters

1. N. Bourgeois, B. Escoffier, V. Th. Paschos, *An introduction to exponential time exact algorithms for solving NP-hard problems*, in A. R. Mahjoub (ed.) *Progress in Combinatorial Optimization*, Wiley – ISTE, London, 2011.
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### Articles published or accepted for publication in refereed journals

1. C. Bazgan, L. Brankovic, K. Jansen, M. Lampis, M. Liedloff, J. Monnot, V. Th. Paschos, *The many facets of upper domination*, Theoretical Computer Science, to appear.
2. N. Bourgeois, A. Giannakos, G. Lucarelli, I. Millis, V. Th. Paschos, *Exact and approximation algorithms for densest  $k$ -subgraph*, European Journal of Operations Research, to appear.
3. N. Boria, C. Murat, V. Th. Paschos, *The probabilistic minimum dominating set problem*, Discrete Applied Mathematics, to appear.
4. E. Bonnet, V. Th. Paschos, *Sparsification and subexponential approximation*, Acta Informatica, to appear.
5. E. Bonnet, V. Th. Paschos, F. Sikora, *Parameterized algorithms for the MAX  $k$ -SET COVER and related satisfiability problems*, RAIRO/ITA, to appear.
6. E. Bonnet, V. Th. Paschos, *Dual parameterization and parameterized approximability of subset problems*, RAIRO/OR, to appear.
7. B. Escoffier, V. Th. Paschos, E. Tourniaire, *Super-polynomial approximation and branching algorithms*, RAIRO/OR 50, 2016.
8. V. Th. Paschos, *When polynomial approximation meets exact computation*, 4OR 13, 2015 (invited paper).
9. E. Bonnet, B. Escoffier, E. Kim, V. Th. Paschos, *On Subexponential and FPT-time inapproximability*, Algorithmica 71, 2015.
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11. N. Boria, F. Della Croce, V. Th. Paschos, *On the MAX MIN VERTEX COVER problem*, Discrete Applied Mathematics 196, 2015.
12. B. Escoffier, J. Monnot, V. Th. Paschos, M. Xiao, *New results on polynomial inapproximability and fixed parameter approximability of EDGE DOMINATING SET*, Theory of Computing Systems 56, 2015.
13. B. Escoffier, V. Th. Paschos, E. Tourniaire, *Approximating MAX SAT by moderately exponential algorithms*, Theoretical Computer Science 560, 2014.
14. F. Della Croce, V. Th. Paschos, *Efficient algorithms for the MAX  $k$ -VERTEX COVER problem*, Journal of Combinatorial Optimization 28, 2014.
15. E. Bonnet, V. Th. Paschos, *Parameterized (in)approximability of subset problems*, Operations Research Letters 42, 2014.
16. N. Boria, J. Monnot, V. Th. Paschos, *Reoptimization of maximum weight induced hereditary subgraph problems*, Theoretical Computer Science 514, 2013.
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19. N Bourgeois, F. Della Croce, B. Escoffier, V. Th. Paschos, *Fast algorithms for MIN INDEPENDENT DOMINATING SET*, Discrete Applied Mathematics 161, 2013.
20. I. Kacem, V. Th. Paschos, *Weighted completion time minimization on a single-machine with a fixed non-availability interval: differential approximability*, Discrete Optimization 10, 2013.
21. B. Escoffier, V. Th. Paschos, E. Tourniaire, *Moderately exponential time and fixed parameter approximation algorithms*, Optimization 62, 2013.
22. N. Bourgeois, B. Escoffier, V. Th. Paschos, J.M.M. van Rooij, *Fast algorithms for MAX INDEPENDENT SET*, Algorithmica 62, 2012.
23. G. Ausiello, N. Boria, A. Giannakos, G. Lucarelli, V. Th. Paschos, *Online maximum  $k$ -coverage*, Discrete Applied Mathematics 160, 2012.
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25. N Bourgeois, F. Della Croce, B. Escoffier, V. Th. Paschos, *Algorithms for dominating clique problems*, Theoretical Computer Science 459, 2012.
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32. V. Th. Paschos, O. A. Telelis, V. Zissimopoulos, *Probabilistic models for the STEINER TREE problem*, Networks 56, 2010.
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34. B. Escoffier, V. Th. Paschos, *A survey on the structure of approximation classes*, Computer Science Review 4, 2010.
35. C. Murat, V. Th. Paschos, *Probabilistic optimization in graph-problems*, Algorithmic Operations Research 5, 2010.
36. F. Della Croce, V. Th. Paschos, R. Wolfler Calvo, *Approximating the metric 2-peripatetic salesman problem*, Algorithmic Operations Research 5, 2010.
37. G. Ausiello, B. Escoffier, J. Monnot, V. Th. Paschos, *Reoptimization of minimum and maximum traveling salesman's tours*, Journal of Discrete Algorithms 7, 2009.
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60. C. Bazgan, B. Escoffier, V. Th. Paschos, *Completeness in standard and differential approximation classes: Poly-(D)APX- and (D)PTAS-completeness*, Theoretical Computer Science 339, 2005.

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### Articles published in refereed conference proceedings

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