# ANTONIOS SYMVONIS / Αντώνιος Συμβώνης
Curriculum Vitae
March 2020

## Personal details

Date of Birth:         9 July 1964
Marital status:        Married, one child
Citizenship:           Greek, Australian

## Contact address

Department of Mathematics
School of Applied Mathematics and Physical Sciences
National Technical University of Athens
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## Research interests

Theoretical aspects of Computer Science, focusing on algorithms and their complexity (graph drawing, graph theory, computational geometry). Data visualization. Data protection and security. Software development.

*Γνωστικό Αντικείμενο:* «Αλγόριθμοι και Πολυπλοκότητα»

## Academic appointments

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|---|---|
| July 2010 –  today | ***Professor***<br>Department of Mathematics, National Technical University of Athens. |
| August 2011 –  July 2019 | ***Hellenic Data Protection Authority***<br>Board Member |
| September 2009 – July 2013 | ***Hellenic Open University***<br>Συνεργαζόμενο Εκπαιδευτικό Προσωπικό (ΣΕΠ). |
| May 2003 –  July 2010 | ***Associate Professor,***<br>Department of Mathematics, National Technical University of Athens. |
| June 2000 – May 2003 | ***Associate Professor,***<br>Department of Mathematics, University of Ioannina.<br>***Research Associate,***<br>Department of Computer Science, University of Sydney. |
| January 1997 – June 2000: | ***Senior Lecturer,***<br>Department of Computer Science, University of Sydney. |
| January 1998 – December 1998: | ***Visiting Associate Professor,***<br>Department of Computer Science, Dartmouth College, USA. |
| September 1991 – December 1996: | ***Lecturer,***<br>Department of Computer Science, University of Sydney. |
| September 1987 – August 1991: | ***Teaching/research assistant***,<br>Department of Computer Science, University of Texas at Dallas. |

## Education

- ***Ph.D. in Computer Science***, University of Texas at Dallas, August 1991.
  Dissertation title: "Packet Routing Problems and High Resolution Graph Layouts".
  Supervisor: Prof. F. Makedon
- ***M.Sc. in Computer Science***, University of Texas at Dallas, May 1989.
- ***Diploma of Computer Engineering and Informatics***, Polytechnic School, University of Patras, Greece, June 1987.

## Research Funding

1. ***iRead: Infrastructure and integrated tools for personalized learning of reading skill.***
   *European Union Reasearch and Innovation (Horizon H2020). ICT-22-2016 Technologies for Learning and Skills.*
   Primary Investigator. Scientific project coordinator. Grant agreement No.: 731724
   2017-2020: €543,875  (Total budget: €5,144,673).

2. ***iLearnRW:  Integrated Intelligent LEARNing Environment for Reading and Writing .***
   *European Union Seventh Framework program (FP7).   ICT-2011.8.1 Technology-enhanced learning.*
   Scientific project coordinator.  In collaboration with Prof. Kollias (NTUA).
   2012-2015: €339,680  (Total budget: €1,800,000).

3. ***Graph Drawing with Emphasis in Security Applications***
   *Ministry of Education, Lifelong Learning and Religious Affairs, Program "Heraclitus II"*
   2011-2013: € 12,600

4. ***Graph Theory Problem Solving with Emphasis in their Drawings.***
   *Ministry of Education, Lifelong Learning and Religious Affairs, Program "Heraclitus II"*
   2011-2012: € 22,500

5. ***Label Placement Algorithms under the Boundary Labeling Model***
   *PEBE 2008--National Technical University of Athens research grant*
   2008-2009: € 12,600

6. ***AGENT-DYSL: Accommodative intelliGENT educational environments for DYSLexic learners.***
   *European Union Sixth Framework program, Information Society Technologies, eInclusion.*
   Scientific project coordinator.  In collaboration with Prof. Kollias (NTUA).
   2006-2009: €418,160  (Total budget: €2,000,000).

7. ***Labeling placement algorithms with applications to graph drawing and cartography.***
   *General Secretariat for Research and Technology, Ministry of Development. PENED program.*
   2005-2008: €46,500

8. ***Optimal graph drawing algorithms***
   *Ministry of National Education and Religious Affairs, Program Pythagoras.*
   2004-2006: €50,000

9. ***Design and Analysis of Simple Packet routing algorithms***
   *General Secretariat for Research and Technology, Ministry of Development. Greek-German Collaboration program.*
   2003-2004: €15,407

10. ***Design and analysis of simple greedy dynamic on-line routing algorithms***
    *Australian Research Council.*
    1999: $73,000,
    2000: $74,000, (approved; funding was suspended due to resignation from University of Sydney)
    2001: $63,000  (approved; funding was suspended due to resignation from University of Sydney)

11. ***Combinatorial Algorithmic support for multimedia distribution***
    *Australian Research Council*
    2000: $13,000

12. ***Three-dimensional orthogonal graph drawings***
    *Australian Research Council*
    2000: $20,000

13. ***Transposition-based Routing Algorithms***
    *Australian Research Council*
    1995: $15,000,
    1996: $15,000,
    1997: $15,000

14. ***Parallel Heuristics***
    *University of Sydney Research Grant Scheme*
    1993:$4,000.

15. ***Graph Optimization Problems: High Resolution Layouts and Grid Searching***
    *University of Sydney Research Grant Scheme*
    1992: $6,000

## Editorship

e-1. ***Graph Drawing - 22nd International Symposium, GD 2014, Würzburg, Germany, September 24-26, 2014, Revised Selected Papers.***
Christian A. Duncan, Antonios Symvonis:
*Lecture Notes in Computer Science 8871, Springer 2014, ISBN 978-3-662-45802-0*

## Journal publications

j-1. ***Planar drawings of fixed-mobile bigraphs.***
Michael A. Bekos, Felice De Luca, Walter Didimo, Tamara Mchedlidze, Martin Nöllenburg, Antonios Symvonis, Ioannis G. Tollis
*Theor. Comput. Sci. 795: 408-419 (2019).*

j-2. ***Greedy rectilinear drawings.***
Patrizio Angelini, Michael A. Bekos, Walter Didimo, Luca Grilli, Philipp Kindermann, Tamara Mchedlidze, Roman Prutkin, Antonios Symvonis, Alessandra Tappini
*Theor. Comput. Sci. 795: 375-397 (2019).*

j-3. ***Vertex-Coloring with Defects.***
P. Angelini, M. A. Bekos, F. De Luca, W. Didimo, M.Kaufmann, S. G. Kobourov, F. Montecchiani, C. N. Raftopoulou, V. Roselli, A. Symvonis
*J. Graph Algorithms Appl. 21(3): 313-340 (2017).*

j-4. ***Monotone Drawings of Graphs with Fixed Embedding.***
P. Angelini, W. Didimo, S. G. Kobourov, T. Mchedlidze, V. Roselli, A. Symvonis, S. K. Wismath
*Algorithmica 71(2): 233-257 (2015).*

j-5. ***Profile-Based Text Classification for Children with Dyslexia.***
C. Litsas, M. Mastropavlou, A. Symvonis
*International Journal of Monitoring and Surveillance Technologies Research 3(1): 21-39 (2015).*

j-6. ***Computing upward topological book embeddings of upward planar digraphs.***
F. Giordano, G. Liotta, T. Mchedlidze, A. Symvonis, S. Whitesides
*J. Discrete Algorithms 30: 45-69 (2015).*

j-7.   ***Many-to-One Boundary Labeling with Backbones.***
       M. A. Bekos, S. Cornelsen, M. Fink, Seok-Hee Hong, M. Kaufmann, M. Nöllenburg, I. Rutter, A. Symvonis
       *J. Graph Algorithms Appl. 19(3): 779-816 (2015).*

j-8.   ***Fan-planarity: Properties and complexity.***
       C. Binucci, E. Di Giacomo, W. Didimo, F. Montecchiani, M. Patrignani, A. Symvonis, I. G. Tollis
       *Theor. Comput. Sci. 589: 76-86 (2015).*

j-9.   ***Making assistive reading tools user friendly: a new platform for Greek dyslexic students empowered by automatic speech recognition***
       T. Athanaselis, S. Bakamidis, I. Dologlou, E. N. Argyriou, A. Symvonis
       *Multimedia Tools and Applications,* Vol. 68, no. 3, pp. 681 - 699, 2014.

j-10.  ***Maximizing the Total Resolution of Graphs***
       E. N. Argyriou, M. A. Bekos, A. Symvonis.
       *The Computer Journal*, Oxford Journals, Vol. 56, Issue 7, p.p. 887-900, 2013.

j-11.  ***On upward point set embeddability***
       M. Kauffmann, T. Mchedlidze, A. Symvonis.
       *Computational Geometry: Theory and Applications*, 46(6): 774-804 (2013).

j-12.  ***Smooth Orthogonal Layouts***
       M. A. Bekos, M. Kaufmann, S. Kobourov, A. Symvonis
       *Journal of Graph Algorithms and Applications*, Vol. 17, no. 5, pp. 575-595,  2013.

j-13.  ***Geometric RAC Simultaneous Drawings of Graphs***
       E. N. Argyriou, M. A. Bekos, M. Kauffmann, A. Symvonis.
       *Journal of Graph Algorithms and Applications*, Volume 17, No. 1, pp. 11-34, 2013.

j-14.  ***The Straight-Line RAC Drawing Problem is NP-Hard***
       E. N. Argyriou, M. A. Bekos, A. Symvonis.
       *Journal of Graph Algorithms and Applications*, Volume 16, No. 2, pp. 569-597, 2012.

j-15.  ***Drawing trees in a streaming model***
       C. Binucci, U. Brandes, G. Di Battista, W. Didimo, M. Gaertler, P. Palladino, M. Patrignani, A. Symvonis, K. A. Zweig.
       *Information Processing Letters*, Volume 112, No. 11, pp. 418-422, 2012.

j-16.  ***Crossing Optimal Acyclic HP-Completion for Outerplanar st-Digraphs***
       T. Mchedlidze, A. Symvonis.
       *Journal of Graph Algorithms and Application*s, Volume 15, No. 3, pp. 373-415, 2011.

j-17.  ***Colored Simultaneous Geometric Embeddings and Universal Pointsets***
       U.Brandes, C. Erten, A. Estrella-Balderrama, J. J. Fowler, F. Frati,  M. Geyer, C. Gutwenger, S. Hong, M. Kaufmann, S. G. Kobourov, G. Liotta, P. Mutzel, A. Symvonis.
       *Algorithmica*, Volume 60, No. 3, pp. 569-592, 2011.

j-18.  ***On the Perspectives Opened by Right Angle Crossing Drawings***
       P. Angelini, L. Cittadini, G. Di Battista, W. Didimo, F. Frati,  M. Kaufmann, A. Symvonis.
       *Journal of Graph Algorithms and Applications,* Volume 15, No. 1, pp. 53-78, 2011.

j-19.  ***On Metro-Line Crossing Minimization***
       E. Argyriou, M. Bekos, M. Kaufmann, A. Symvonis.
       *Journal of Graph Algorithms and Applications,* Volume 14, No. 1, pp. 75-96, 2010.

j-20.  ***Boundary Labeling with Octilinear Leaders***
       M. Bekos, M. Kaufmann, M. Nollenberg, A. Symvonis.
       *Algorithmica*, Volume 57, No. 3, pp. 436-461, 2010.

j-21.  ***Area-Feature Boundary Labeling***
       M. Bekos, M. Kaufmann, K. Potina, A. Symvonis.
       *The Computer Journal,* Volume 53, No. 6, pp. 827-841, 20010.

j-22. ***Efficient Labeling of Collinear Sites***
M. Bekos, M. Kaufmann , K. Potika, A. Symvonis.
*Journal of Graph Algorithms and Applications*, Volume 12, No. 3, pp. 357-380, 2008.

j-23. ***Boundary Labeling: Models and Efficient Algorithms for Rectangular Maps***
M. Bekos, M. Kaufmann, A. Symvonis, A. Wolff.
*Computational Geometry: Theory and Applications,* Volume 36, No. 3, pp. 215-236, 2007.

j-24. ***Video-on-Demand Based on Delayed-Multicast: Algorithmic Support***
N. Glinos, D. Hoang, C. Nguyen, A. Symvonis.
*The Computer Journal*, Volume 47, No. 5, pp. 545-559, 2004.

j-25. ***Dimension-Exchange Algorithms for Token Distribution on Tree-Connected Architectures***
M. Houle, A. Symvonis, D. Wood.
*Journal of Parallel and Distributed Computing,* Volume 64, No. 5, pp. 591-605, 2004.

j-26. ***Lower Bounds for One-to-one Packet Routing on Trees using Hot-Potato Algorithms***
A. Roberts, A. Symvonis, D. Wood.
*The Computer Journal,* Volume 45, No. 4, pp. 423-435, 2002.

j-27. ***On the Routing Number of Complete d-ary Trees***
A. Roberts, A. Symvonis.
*International Journal of Foundations of Computer Science,* Volume 12, No. 4, pp. 411-434, 2001.

j-28. ***Potential-function-based Analysis of an off-line Heap Construction Algorithm***
A. Roberts, A. Symvonis.
*Journal for Universal Computer Science*, Volume 6, No. 2, pp. 240-255, 2000.

j-29. ***Three-Dimensional Orthogonal Graph Drawing Algorithms***
P. Eades, A. Symvonis, S. Whitesides.
*Discrete Applied Mathematics*, Volume 103, No. 1-3, pp. 55-87, 2000.

j-30. ***A Note on Deflection Worm Routing on Meshes***.
A. Symvonis.
*Information Processing Letters,* Volume 71, No. 5-6, pp. 235-239, 1999.

j-31. ***On-line Matching Routing on Trees***
A. Roberts, A. Symvonis.
*Theoretical Computer Science.* Volume 220, No. 2, pp. 469-488, 1999.

j-32. ***A Note on Parallel Algorithms for Optimal h-v Drawings of Binary Trees***
T. Metaxas, G. Pantziou, A. Symvonis.
*Computational Geometry: Theory and Applications*, Volume 9, No. 3, pp. 145-158, 1998.

j-33. ***Many-to-Many Routing on Trees via Matchings***
G Pantziou, A. Roberts, A. Symvonis.
*Theoretical Computer Science*, Volume 185, No. 2, pp. 347-377, 1997.

j-34. ***Heuristic Methods for Permutation Routing on Meshes and Tori***
F. Makedon, A. Symvonis.
*Computer Systems: Science and Engineering*, Volume 12, No. 6, pp. 373-380, 1997.

j-35. ***A General Method for Deflection Worm Routing on Meshes Based on Packet Routing Algorithms*** A. Roberts, A. Symvonis.
*IEEE Transactions on Parallel and Distributed Systems*, Volume 8, No. 8, pp. 781-789, 1997.

j-36. ***An Empirical Study of Off-Line Permutation Packet Routing on 2-Dimensional Meshes Based on the Multistage Routing Method***
A. Symvonis, J. Tidswell.
*IEEE Transactions on Computers*, Volume 45, No. 5, pp. 619-625, May 1996.

j-37. ***Routing on Trees***
A. Symvonis.
*Information Processing Letters*, Volume 57, No. 4, pp. 215-223, 1996.

j-38.   ***Flit-Serial Packet Routing on Meshes and Tori***
        F. Makedon, A. Symvonis.
        *Mathematical Systems Theory*, Volume 29, No. 4, pp. 311-330, 1996.

j-39.   ***Optimal Stable Merging***
        A. Symvonis.
        *The  Computer Journal*, Volume 38, No. 8, pp. 681-690, 1995.

j-40.   ***Optimal Algorithms for Multipacket Routing Problems on Rings***
        F. Makedon, A. Symvonis.
        *Journal of Parallel and Distributed Computing*, Volume 22, No. 1, pp. 37-43, 1994.

j-41.   ***Searching a Solid Pseudo 3-Sided Solid Orthoconvex Grid***
        A. Symvonis, S. Tragoudas.
        *International Journal of Foundations of Computer Science*, Volume 4, No. 4, pp. 325-353,
        1993.

j-42.   ***Drawing Graphs in the Plane with High Resolution***
        M. Formann, T. Hagerup, J. Haralambides, M. Kaufmann,  F. T. Leighton, A. Symvonis, E.
        Welzl, G. Woeginger.
        *SIAM Journal on Computing*, Volume 22, No. 5, pp. 1035-1052, 1993.

j-43.   ***Optimal Algorithms for the Many-to-One Routing Problem on 2-Dimensional Meshes***
        F. Makedon, A. Symvonis.
        *Journal of Microprocessors and Microsystems*, Volume 17, No. 6, pp. 361-367, 1993.

j-44.   ***An Efficient Heuristic for Permutation Packet Routing on Meshes with Low Buffer***
        ***Requirements*** F. Makedon, A. Symvonis.
        *IEEE Transactions on Parallel and Distributed Systems*, Volume 4, No. 3, pp. 270-277, 1993.

## Conference publications

c-1.   ***Interactive and Personalized Activity eBooks for Learning to Read: The iRead Case.***
       N. Deligiannis, D. Panagiotopoulos, P. Patsilinakos, C. N. Raftopoulou and A. Symvonis
       *Proceedings of the First Workshop on Intelligent Textbooks co-located with 20th International
       Conference on Artificial Intelligence in Education (AIED 2019),  iTextbooks@AIED,* Chicago,
       IL, USA, June 25, 2019. CEUR Workshop Proceedings 2384: 57-69

c-2.   ***Towards Evidence-informed Design Principles for Adaptive Reading Games.***
       M. Mavrikis, A.a Vasalou, L. Benton, C. N. Raftopoulou, A. Symvonis, K. Karpouzis and D.
       Wilkins
       *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems, CHI
       2019*, Glasgow, Scotland, UK, May 04-09, 2019. ACM 2019.

c-3.   ***Drawing planar graph s with few segments on a polynomial grid.***
       P. Kindermann, T. Mchedlidze, T. Schneck and A. Symvonis.
       *Graph Drawing and Network Visualization - 27th International Symposium, GD 2019,* Prague,
       Czech Republic, September 17-20, 2019. Lecture Notes in Computer Science 11904: 416-429,
       Springer 2019.

c-4.   ***Geometric Representations of Dichotomous Ordinal Data.***
       P. Angelini, Michael A. Bekos, Martin Gronemann, Antonios Symvonis
       *Graph-Theoretic Concepts in Computer Science - 45th International Workshop, WG 2019,* Vall
       de Núria, Spain, June 19-21, 2019, Revised Papers. Lecture Notes in Computer Science 11789:
       205-217, Springer 2019.

c-5.   ***Monotone Drawings of k-Inner Planar Graphs***
       A. Oikonomou and A. Symvonis
       *Graph Drawing and Network Visualization - 26th International Symposium, GD 2018*,
       Barcelona, Spain, September 26-28, 2018. Lecture Notes in Computer Science 11282: 347-353.
       Springer 2018.

c-6.   ***Greedy Rectilinear Drawings***
P. Angelini, M. A. Bekos, W.Didimo, L. Grilli, P. Kindermann, T. Mchedlidze, R. Prutkin, A. Symvonis and A. Tappini
*Graph Drawing and Network Visualization - 26th International Symposium, GD 2018*, Barcelona, Spain, September 26-28, 2018. Lecture Notes in Computer Science 11282: 495-508. Springer 2018.

c-7.   ***Interactive Personalized eBooks  for Education***
S. Droutsas, P. Patsilinakos and A.Symvonis
*9th International Conference on Information, Intelligence, Systems and Applications, IISA 2018,* Zakynthos, Greece, July 23-25, 2018. IEEE Computer Society: 1-8

c-8.   ***Planar Drawings of Fixed-Mobile Bigraphs***
M. Bekos, F. De Luca, W. Didimo, T. Mchedlidze, M. Nöllenburg, A. Symvonis and I. Tollis
*Graph Drawing and Network Visualization - 25th International Symposium, GD 2017*, Boston, MA, USA, September 25-27, 2017. Lecture Notes in Computer Science 10692: 426-439. Springer 2018.

c-9.   ***Simple Compact Monotone Tree Drawings***
A. Oikonomou and A. Symvonis
*Graph Drawing and Network Visualization - 25th International Symposium, GD 2017*, Boston, MA, USA, September 25-27, 2017. Lecture Notes in Computer Science 10692: 326-333. Springer 2018.

c-10.   ***Rooted Uniform Monotone Minimum Spanning Trees.***
K. Mastakas, A. Symvonis
*Algorithms and Complexity - 10th International Conference, CIAC 2017,* Athens, Greece, May 24-26, 2017, Lecture Notes in Computer Science 10236, 2017: 405-417.

c-11.   ***Low Ply Drawings of Trees.***
P. Angelini, M. A. Bekos, T. Bruckdorfer, J. Hancl Jr., M. Kaufmann, S. G. Kobourov, A. Symvonis, P. Valtr
*Graph Drawing and Network Visualization - 24th International Symposium, GD 2016,* Athens, Greece, September 19-21, 2016, Lecture Notes in Computer Science 9801: 236-248.

c-12.   ***A data-logging mechanism to support e-learning systems.***
C. Bruda, C. Litsas, C. Mihu, I. Mihu, A. Symvonis
*6th International Conference on Information, Intelligence, Systems and Applications, IISA 2015,* Corfu, Greece, July 6-8, 2015. IEEE 2015, ISBN 978-1-4673-9311-9: 1-4.

c-13.   ***Low ply graph drawing.***
E. Di Giacomo, W. Didimo, Seok-Hee Hong, M. Kaufmann, S. G. Kobourov, G. Liotta, K. Misue, A. Symvonis, Hsu-Chun Yen
*6th International Conference on Information, Intelligence, Systems and Applications, IISA 2015,* Corfu, Greece, July 6-8, 2015. IEEE 2015, ISBN 978-1-4673-9311-9: 1-6.

c-14.   ***On the construction of increasing-chord graphs on convex point sets.***
K. Mastakas, A. Symvonis
*6th International Conference on Information, Intelligence, Systems and Applications, IISA 2015,* Corfu, Greece, July 6-8, 2015. IEEE 2015, ISBN 978-1-4673-9311-9: 1-6.

c-15.   ***Text Classification for Children with Dyslexia employing User Modelling Techniques***
C. Litsas, M. Mastropavlou and A. Symvonis
 Proc. of *5th International Conference on Information, Intelligence, Systems and Applications (IISA 2014),* Chania, Greece, July 7-9 2014, pp. 1-6.

c-16.   ***A Fraud Detection Visualization System Utilizing Radial Drawings and Heat-maps***
**E**. N. Argyriou, A. Symvonis, V. Vassiliou
 Proc. of *9th International Conference on Information Visualization Theory and Applications (IVAPP 2014),* Lisbon, Portugal, January 5-7, 2014, pp. 153 - 160.

c-17.   ***Occupational Fraud Detection through Visualization***
E.N.  Argyriou, A. Sotiraki, A. Symvonis
 *Proc. IEEE Intelligence and Security Informatics 2013 (ISI 2013)*, Seattle, USA, June 4-7, 2013, pp. 4-7.

c-18. ***Smooth Orthogonal Layouts***
M. A. Bekos, S. Kobourov, M. Kaufmann, A. Symvonis.
*Proc. 20th International Symposium on Graph Drawing (GD 2012)*, Redmond, Washington, USA, September 19-21, 2012. LNCS 7704, pp. 150-161, 2012.

c-19. ***Detecting Periodicity in Serial Data through Visualization***
E. N. Argyriou, A. Symvonis.
*Proc. 8th International Symposium on Visual Computing (ISVC 2012),* Rethymnon, Crete, Greece, July 16-18, 2012, LNCS 7432, pp. 295-304, 2012.

c-20. ***Geometric RAC Simultaneous Drawings of Graphs***
E. N. Argyriou, M. A. Bekos, M. Kaufmann, A. Symvonis.
*Proc. 18th International Computing and Combinatorics Conference (COCOON 2012),* Sydney, Australia, August 20-22, 2012. LNCS 7433, pp. 287-298, 2012.

c-21. ***Upward point-set embeddability for convex point sets is in P***
M. Kaufmann, T.Mchedlidze, A.Symvonis.
*Proc. 19th International Symposium on Graph Drawing (GD 2011),* Eindhoven, Holland, September 21-23, 2011. LNCS 7034, pp. 403-414, 2012.

c-22. ***Monotone Drawings of Graphs with Fixed Embedding***
P. Angelini, W. Didimo, S. Kobourov, T. Mchedlidze, V. Roselli, A. Symvonis, S. Wismath.
*Proc. 19th International Symposium on Graph Drawing (GD 2011),* Eindhoven, Holland, September 21-23, 2011. LNCS 7034, pp. 379-390, 2012.

c-23. ***Combining Problems on RAC Drawings and Simultaneous Graph Drawings***
E. N. Argyriou, M. A. Bekos, M. Kaufmann, A. Symvonis.
*Proc. 19th International Symposium on Graph Drawing (GD 2011),* Eindhoven, Holland, September 21-23, 2011. LNCS 7034, pp. 433-434, 2012.

c-24. ***The Straight-Line RAC Drawing Problem is NP-Hard***
E. N. Argyriou, M. A.Bekos, A. Symvonis.
*Proc. 37th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM  2011)*, Nový Smokovec, Slovakia, January 22-28, 2011. LNCS 6543, pp. 74-85, 2011.

c-25. ***Incorporating Speech Recognition Engine into an Intelligent Assistive Reading System for Dyslexic Students***
T. Athanaselis, S. Bakamidis, I. Dologlou, E. N. Argyriou, A. Symvonis.
*Proc. Annual Conference of the International Speech Communication Association (INTERSPEECH 2011),* Florence, Italy, August 28-31, 2011,  pp. 2993-2996, 2011.

c-26. ***Upward Point-Set Embeddability***
M. Geyer, M. Kaufmann, T.Mchedlidze, A.Symvonis.
*Proc. 37th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM  2011)*, Nový Smokovec, Slovakia, January 22-28, 2011. LNCS 6543, 272-283, 2011.

c-27. ***Combining Traditional Map Labeling with Boundary Labeling***
M. A. Bekos, M.Kaufmann, D. Papadopoulos, A. Symvonis.
*Proc. 37th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM  2011)*, Nový Smokovec, Slovakia, January 22-28, 2011. LNCS 6543, pp. 111-122, 2011.

c-28. ***Upward Geometric Graph Embeddings into Point Sets***
P. Angelini, F. Frati, M. Geyer, Mi. Kaufmann, T. Mchedlidze, A. Symvonis.
*Proc. 18th International Symposium on Graph Drawing (GD 2010),* Konstanz, Germany, September 21-24, 2010. LNCS 6502, pp. 25-37, 2011.

c-29. ***Maximizing the Total Resolution of Graphs***
E. N. Argyriou, M. A. Bekos, M. Kaufmann, A. Symvonis.
*Proc. 18th International Symposium on Graph Drawing (GD 2010),* Konstanz, Germany, September 21-24, 2010. LNCS 6502, pp.  62-67, 2011.

c-30. ***Unilateral Orientation of Mixed Graphs***
T. Mchedlidze, A. Symvonis.

*Proc. 36th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2010*Spindleruv Mlyn, Czech Republic, *)*, January 23-29, 2010. LNCS 5901, pp. 588-599, 2010.

c-31.  ***Crossing-Free Acyclic Hamiltonian Path Completion for Planar st-Digraphs***
        T. Mchedlidze, A. Symvonis.
        *20th  International Symposium on Algorithms and Computation (ISAAC 2009)*,  Hawaii, USA, December 16-18, 2009. LNCS 5878, pp. 882-891, 2009.

c-32.  ***On the Perspectives Opened by Right Angle Crossing Drawings***
        P. Angelini, L. Cittadini, G. Di Battista, W. Didimo, F. Frati, M. Kaufmann A. Symvonis.
        *Proc. 17th  International Symposium on Graph Drawing (GD 2009)*, Chicago, Illinois, USA, September 22 - 25, 2009. LNCS 5849, pp. 21-32, 2010.

c-33.  ***Drawing Trees in a Streaming Model***
        C. Binucci, U. Brandes, G. Di Battista, W. Didimo, M Gaertler, P. Palladino, M. Patrignani, A. Symvonis, K. Zweig.
        *Proc. 17th  International Symposium on Graph Drawing (GD 2009)*, Chicago, Illinois, USA, September 22 - 25, 2009. LNCS 5849, pp. 292-303, 2010.

c-34.  ***On rho-Constrained Upward Topological Book Embeddings***
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c-45. ***AGENT-DYSL: A Novel Intelligent Reading System for Dyslexic Learners***
M. Athanasaki, M. Avramouli, K. Karpouzis, S. Kollias, K. Ntalianis, A. Schmidt, A. Symvonis, F. Valcarcel.
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M. A. Bekos, A. Symvonis.
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c-53. ***Cost-based Optimization for Video-on-Demand using Delayed-Multicast***
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c-57. ***Dimension-Exchange Algorithms for Load Balancing on Trees***
M. Houle, A. Symvonis, D. Wood.
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(SIROCCO 2002)*, Carleton Scientific, Andros, Greece, June 2002, pp. 181-196.

c-58. ***Refinements of Three-Dimensional Orthogonal Graph Drawings***
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H. El-Gindy, C. Nguyen, A. Symvonis.
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c-60. ***Lower Bounds for Hot-Potato Permutation Routing on Trees***
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*7th International Colloquium on Structural Information and Communication Complexity,
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c-61. ***On-line Matching Routing on Trees***
A. Roberts, A. Symvonis.
*LATIN'98 Theoretical Informatics*, Campinas, Brazil, April 1998. LNCS 1380, pp. 282-291,
1998.

c-62. ***Two Algorithms for Three Dimensional Orthogonal Graph Drawings***
P. Eades, A. Symvonis, S. Whitesides.
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1997.

c-63. ***Dynamic Tree Routing under the Matching-with-Consumption Model***
G. Pantziou, A. Roberts, A. Symvonis.
*7th International Symposium on Algorithms and Computation (ISAAC 1996)*, Osaka, Japan,
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c-64. ***On the Hot-Potato Permutation Routing Algorithm of Borodin, Rabani and Schieber***
R.T. Plunkett, A. Symvonis.
*Computing: The Australasian Theory Symposium (CATS 1996)*, Melbourne, Australia, January
1996. (Published as *Australian Computer Science Communications*, Volume 18, No. 3, pp. 118-
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c-65. ***Routing on Trees via Matchings***
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*4th Workshop on Algorithms and Data Structures (WADS 1995)*, Kingston, Ontario, Canada,
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c-66. ***On Deflection Worm Routing on Meshes***
A. Roberts, A. Symvonis.
*1st IEEE International Conference on Algorithms and Architecture for Parallel Processing
(ICA$^3$PP)*, Brisbane, Australia, April 1995, pp. 375-378.

c-67. ***Parallel h-v Drawings of Binary Trees***
T. Metaxas, G. Pantziou, A. Symvonis.
*5th International Symposium on Algorithms and Computation (ISAAC 1994)*, Beijing, China,
August 25-27, 1994. LNCS 834, pp. 487-495, 1994.

c-68. ***Optimal Algorithms for Packet Routing on Tree***
A. Symvonis.
*6th International Conference on Computing and Information (ICCI 1994)*, Peterborough, Ontario, Canada, May 26-28, 1994, pp. 144-161. (Published at a special issue of the *Journal of Computing and Information*, Volume 1, No. 1.)

c-69. ***Optimal Stable Merging***
A. Symvonis.
*6th International Conference on Computing and Information (ICCI 1994)*, Peterborough, Ontario, Canada, May 26-28, 1994, pp. 124-143. (Published at a special issue of the *Journal of Computing and Information*, Volume 1, No. 1.)

c-70. ***Routing on Trees***
A. Symvonis.
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c-71. ***Heuristic Methods for Permutation Routing on Meshes and Tori***
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*16th Australian Computer Science Conference (ACSC-16)*, Brisbane, February 1993, pp. 219-227.

c-72. ***Searching a Solid Pseudo 3-Sided Solid Orthoconvex Grid***
A. Symvonis, Tragoudas.
*3rd Annual International Symposium on Algorithms and Computation (ISAAC 1992)*, Japan, December 1992. LNCS 650, pp. 188-197, 1992.

c-73. ***A New approach to Off-Line Packet Routing. Case Study: 2-Dimensional Meshes***
A. Symvonis, J. Tidswell.
*1992 DAGS/PC Symposium*, Dartmouth Institute for Advanced Graduate Studies in Parallel Computation, Hanover, NH, USA, June 1992, pp. 84-93.

c-74. ***Multipacket Routing on Rings***
F. Makedon, A. Symvonis.
*1st International Conference of the Austrian Center for Parallel Computation*, Saltzburg, Austria, September 1991, pp. 226-237.

c-75. ***Many-to-One Packet Routing for the Mesh***
F. Makedon, A. Symvonis.
*19th Annual ACM Computer Science Conference*, San Antonio, Texas, March 1991, pp. 280-288.

c-76. ***Drawing Graphs in the Plane with High Resolution***
M. Formann, T. Hagerup, J. Haralambides, M. Kaufmann, F. T. Leighton, A. Symvonis, E. Welzl, G. Woeginger.
*31st IEEE Symposium on Foundations of Computer Science (FOCS 1990)*, St. Louis, Missouri, October 1990, pp. 86-95.

c-77. ***Straight Line Mesh and Hypercube Layouts on the Plane***
J. Haralambides, A. Symvonis.
*ISMM International Conference on Parallel and Distributed Computing and Systems*, New York, October 1990, pp. 2-6.

c-78. ***On Bit-Serial Routing for the Mesh and the Torus***
F. Makedon, A. Symvonis.
*3rd Symposium on the Frontiers of Massively Parallel Computation*, College Park, Maryland, October 1990, pp. 294-302.

c-79. ***Fast Parallel Communication on Mesh Connected Machines with Low Buffer Requirements***
F. Makedon, A. Symvonis.
*1990 IEEE International Conference on Computer Design (ICCD 1990)*, Cambridge, Massachusetts, September 1990, pp. 78-81.

## Professional service

### Editorship

- ***Journal of Graph Algorithms and Applications.***
  Member of the Editorial Board.

- ***Journal of Discrete Mathematics.***
  Member of the Editorial Board.

- ***Journal for Universal Computer Science***.
  Electronic Journal. Member of the Board of Foundation Editors.

- ***GD'14 - Proceedings of the 22nd International Symposium on Graph Drawing***, Würzburg, Germany, September 2014. Lecture Notes in Computer Science (LNCS) 8871, Christian Duncan, Antonios Symvonis (Eds).

- ***AWOCA'96 - Proceedings of the Seventh Australian Workshop on Combinatorial Algorithms***, Magnetic Island, July 1996, Australia (Editor). Technical Report TR 508, Basser Dept of Computer Science, University of Sydney.

### Journal refereeing

- Algorithmica
- Australian Computer Journal
- Computational Geometry: Theory and Applications
- Computer Systems Science and Engineering
- IEEE Transactions on Computers
- IEEE Transactions on Communications
- IEEE Transactions on Parallel and Distributed Systems
- Information and Computation
- International Journal of Foundations of Computer Science
- Journal for Universal Computer Science
- Journal of ACM
- Journal of Algorithms
- Journal of Combinatorial Optimization
- Journal of Graph Algorithms and Applications
- Journal of Parallel and Distributed Computing
- Mathematical Reviews
- Mathematical Systems Theory
- Networks
- SIAM Journal on Computing
- SIAM Journal on Discrete Mathematics
- Software Practice and Experience
- The Computer Journal
- Theoretical Computer Science

### Program Committees

- ***GD2017, 25st International Symposium on Graph Drawing and Network Visualization,***
  September 2017, Boston, USA.

- ***GD 2016, 24th International Symposium on Graph Drawing and Network Visualization,***
  September 2016, Athens, Greece. Chair of the Organizing Committee.

- ***IISA2016, 7th International Conference on Information, Intelligence, Systems and Applications,***

July 2013, Marmaras, Chalkidiki, Greece. Co-Chair of Special Session on *Graph and Network Visualization*.

- *IISA2015, 6th International Conference on Information, Intelligence, Systems and Applications,*
  July 2013, Corfu, Greece. Co-Chair of Special Sessions on *Graph and Network Visualization* and *Technology for Supporting Reading and Writing*.

- *GD2014, 22nd International Symposium on Graph Drawing,*
  September 2014, Würzburg, Germany. PC co-Chair.

- *IISA2014, 5th International Conference on Information, Intelligence, Systems and Applications,*
  July 2013, Chania, Greece. Co-Chair of Special Session on *Graph and Network Visualization*.

- *IISA2013, 4th International Conference on Information, Intelligence, Systems and Applications,*
  July 2013, Piraeus, Greece. Co-Chair of Special Session on *Data Protection and Security*.

- *GD2013, 21st International Symposium on Graph Drawing,*
  September 2013, Bordeaux (Talence), France.

- *GD2010, 18th International Symposium on Graph Drawing,*
  September 2010, Konstanz, Germany.

- *ACSC2010, 33nd Australasian Computer Science Conference,*
  January 2010, Brisbane, Australia.

- *ACSC2009, 32nd Australasian Computer Science Conference,*
  January 2009, Wellington, New Zeland.

- *GD2008, 16th International Symposium on Graph Drawing,*
  September 2008, Heraklion, Greece.

- *PCI2005, 10th Panhellenic Conference on Informatics,*
  November 2005, Volos, Greece.

- *SIROCCO 2003, 10th International Colloquium on Structural Information and Communication Complexity,*
  Umeå University, June 2003, Sweden.

- *PART-99, Fifth Australasian Conference on Parallel and Real-Time Systems*
  November 1999, Melbourne, Australia.

- *ISAAC'99, International Symposium on Algorithms and Computation*
  December 1999, Madras, India

- *PART-98, Fourth Australasian Conference on Parallel and Real-Time Systems*
  September 1998, Perth, Australia.

- *CATS'98, Computing: The Australasian Theory Symposium*
  February 1998, Perth, Australia.

- *PART-97, Fourth Australasian Conference on Parallel and Real-Time Systems*
  September 1997, Newcastle, Australia.

- *AWOCA'97, Australasian Workshop on Combinatorial Algorithms*
  July 1997, Brisbane, Australia.

- *ED-MEDIA'97, World Conference on Educational Multimedia and Hypermedia*
  June 1997, Calgary, Canada.

- *CATS'97, Computing: The Australasian Theory Symposium*
  February 1997, Sydney, Australia.

- ***PART-96, Third Australasian Conference on Parallel and Real-Time Systems***
  September 1996,  Brisbane, Australia.

- ***ED-MEDIA'96, World Conference on Educational Multimedia and Hypermedia***
  June  1996, Boston, USA.

- ***AWOCA'96, Australasian Workshop on Combinatorial Algorithms***
  July 1996, Magnetic Island, Australia.

- ***CATS'96, Computing: The Australasian Theory Symposium***
  January 1996, Melbourne, Australia.

## Teaching experience

- ***Data Visualization*** (graduate course)
  NTUA (2018)
- ***Graph Drawing*** (graduate course)
  NTUA (2005-2012, 2014, 2016).
- ***Graph Theory***
  NTUA (2013-2018)
- ***Διακριτά Μαθηματικά και Μαθηματική Λογική – ΠΛΗ20***
  Ελληνικό Ανοικτό Πανεπιστήμιο (2009-2012)
- ***Data Structures***
  NTUA (2004-2018),
  University of Sydney   (1994-1997).
- ***Algorithms and Complexity***
  NTUA (2005-2018),
  University of Ioannina (2001, 2003),
  University of Sydney (1992-1995, 1999),
  Dartmouth College(1998).
- ***Introduction to Object Oriented Programming***
  NTUA (2018)
- ***Object Oriented Programming*** (graduate course, supervision)
  NTUA (2006-2011).
- ***Introduction to programming*** (Java)
  NTUA (2003-2017),
  University of Ioannina (2001, 2002).
- ***Design and Development of Computer applications*** (Programming in Java)
  NTUA (2004-2017).
- ***Object Oriented Programming*** (Java)
  University of Ioannina (2002).
- ***Data Bases***
  University of Ioannina (2000, 2002),
  University of Sydney (1999).
- ***Theory of Computation***
  University of Ioannina (2000, graduate course),
  University of Sydney (1996-1997).
- ***Concepts in Computing***
  Dartmouth College (1998).
- ***Data Compression with Applications to Multimedia Systems*** (graduate course),
   University of Sydney (1997).

- ***Large Programming Project***
  University of Sydney (1996).
- ***Introduction to Parallel Processing*** (graduate course)
  University of Sydney (1992-1994).
- ***Formal Programming***
  University of Sydney (1992-1993).
- ***Discrete Mathematics***
  University of Texas at Dallas (1990).

## Ph.D. student supervision

1. ***Eymorfia Argyriou,*** Ph.D. (2008--2013)
   Title: «Graph Drawing with emphasis on Computer Security Applications. Supervisor.

   – MS (2006-2008), Thesis Title: Planarity testing algorithms. Supervisor.

2. ***Tamara Mchedlidze,*** Ph.D. (2008--2012)
   Title: Graph theory problems with emphasis on graph drawing. Supervisor.

   – MS (2006-2008), Thesis Title: Upward point embeddings. Supervisor.

3. ***Michael Bekos*** Ph.D. (2004--2008)
   Title: Map Labelling Algorithms with Application in Graph Drawing and Cartography. Supervisor.

   – MS (2002-2004), Thesis Title:Map labeling. Supervisor

4. ***Chi Nguyen***, Ph.D. (1999-- 2003)
   Title: Resource allocation algorithms. Supervisor.

5. ***A. Roberts***, Ph.D. (1993-1998)
   Title: Packet routing algorithms; Supervisor.
   *Best Australian Ph.D. Dissertation Award,1998.*

6. ***D. Abuaiadh***, Ph.D. (1991-1995); Associate supervisor.