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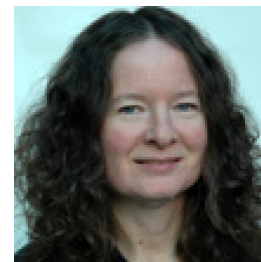
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## Education

Ph.D., Computer Science, University of California, Berkeley, 1983

M.S., Computer Science, University of California, Berkeley, 1981

A.B., Mathematics, University of Chicago, 1977

## Academic Positions

Professor, Institut for Matematik og Datalogi, University of Southern Denmark, 2017-present.

Visiting Professor, Department of Computer Science, University of Toronto, fall semester, 2017.

Lektor (Associate Professor), Institut for Matematik og Datalogi, University of Southern Denmark, 1992-2017.

Visiting Professor, David R. Cheriton School of Computer Science, University of Waterloo, and Department of Computer Science, University of Toronto, fall semester 2012.

Visiting Associate Researcher, Department of Computer Science, University of California - Irvine, fall semester 2007.

Visiting Faculty Member, Department of Computer Science, University of Toronto, fall semester 2002.

Visiting Associate Professor, Computer Sciences Department, University of Wisconsin - Madison, spring semester 1997.

Lektorvikar (Visiting Associate Professor), Institut for Matematik og Datalogi, Odense University, 1991-1992.

Associate Professor, Department of Mathematical Sciences, Loyola University Chicago, 1990-1991.

Lektorvikar (Visiting Associate Professor), Datalogisk Afdeling, Aarhus University, 1989-90.

Assistant Professor, Department of Computer Science, University of Chicago, 1983-89.

## Publikationer

### Online Bin Covering with Advice

Boyar, J., Favrholt, L. M., Kamali, S. & Larsen, K. S., mar. 2021, I: *Algorithmica*. 83, 3, s. 795-821

### Relative Worst-Order Analysis: A Survey

Boyar, J., Favrholt, L. M. & Larsen, K. S., jan. 2021, I: *ACM Computing Surveys*. 54, 1, 21 s., 8.

### Randomized distributed online algorithms against adaptive offline adversaries

Boyar, J., Ellen, F. & Larsen, K. S., sep. 2020, I: *Information Processing letters*. 161, 4 s., 105973.

### Advice Complexity of Priority Algorithms

Borodin, A., Boyar, J., Larsen, K. S. & Pankratov, D., 2020, I: *Theory of Computing Systems*. 64, 4, s. 593-625

### Online bin covering with advice

Boyar, J., Favrholt, L. M., Kamali, S. & Larsen, K. S., 12. jul. 2019, *Algorithms and Data Structures: 16th International Symposium, WADS 2019, Proceedings*. Friggstad, Z., Sack, J-R. & Salavatipour, M. R. (red.). Springer VS, s. 225-238 (Lecture Notes in Computer Science, Bind 11646).

### **Online Dominating Set**

Boyar, J., Eidenbenz, S. J., Favrhøldt, L. M., Kotrbčik, M. & Larsen, K. S., maj 2019, I: *Algorithmica*. 81, 5, s. 1938-1964 27 s.

### **Small low-depth circuits for cryptographic applications**

Boyar, J., Find, M. G. & Peralta, R., jan. 2019, I: *Cryptography and Communications*. 11, 1, s. 109-127

### **Tight Bounds for Restricted Grid Scheduling**

Boyar, J. & Ellen, F., 2019, I: *International Journal of Foundations of Computer Science*. 30, 3, s. 375-405

### **Adding Isolated Vertices Makes Some Greedy Online Algorithms Optimal**

Boyar, J. & Kudahl, C., 10. sep. 2018, I: *Discrete Applied Mathematics*. 246, s. 12-21

### **Weighted online problems with advice**

Boyar, J., Favrhøldt, L. M., Kudahl, C. & Mikkelsen, J. W., aug. 2018, I: *Theory of Computing Systems*. 62, 6, s. 1443-1469

### **Multiplicative Complexity of Vector Valued Boolean Functions**

Boyar, J. & Find, M. G., 11. apr. 2018, I: *Theoretical Computer Science*. 720, s. 36-46

### **Advice complexity of priority algorithms**

Borodin, A., Boyar, J., Larsen, K. S. & Pankratov, D., 2018, *Approximation and Online Algorithms - 16th International Workshop, WAOA 2018, Revised Selected Papers*. Epstein, L. & Erlebach, T. (red.). Springer VS, s. 69-86 (Lecture Notes in Computer Science, Bind 11312).

### **Batch Coloring of Graphs**

Boyar, J., Epstein, L., Favrhøldt, L. M., Larsen, K. S. & Levin, A., 2018, I: *Algorithmica*. 80, 11, s. 3293-3315

### **Online-bounded analysis**

Boyar, J., Epstein, L., Favrhøldt, L. M., Larsen, K. S. & Levin, A., 2018, I: *Journal of Scheduling*. 21, 4, s. 429-441

### **Relative worst-order analysis: A survey**

Boyar, J., Favrhøldt, L. M. & Larsen, K. S., 2018, *Adventures Between Lower Bounds and Higher Altitudes: Essays Dedicated to Juraj Hromkovič on the Occasion of His 60th Birthday*. Böckenhauer, H-J., Komm, D. & Unger, W. (red.). 1. udg. Springer VS, s. 216-230 (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), Bind 11011 LNCS).

### **Batch Coloring of Graphs**

Boyar, J., Epstein, L., Favrhøldt, L. M., Larsen, K. S. & Levin, A., 2017, *Approximation and Online Algorithms: 14th International Workshop on Approximation and Online Algorithms, WAOA 2016*. Mastrolilli, M. & Jansen, K. (red.). Springer, s. 52-64 (Lecture Notes in Computer Science, Bind 10138).

### **On the List Update Problem with Advice**

Boyar, J., Kamali, S., Larsen, K. S. & López-Ortiz, A., 2017, I: *Information and Computation*. 253, Part 3, s. 411-423

### **Online Algorithms with Advice: A Survey**

Boyar, J., Favrhøldt, L. M., Kudahl, C., Larsen, K. S. & Mikkelsen, J. W., 2017, I: *ACM Computing Surveys*. 50, 2, 34 s., 19.

### **Relaxing the Irrevocability Requirement for Online Graph Algorithms**

Boyar, J., Favrhøldt, L. M., Kotrbčik, M. & Larsen, K. S., 2017, *Algorithms and Data Structures: Proceedings of the 15th International Symposium on Algorithms and Data Structures*. Ellen, F., Kolokolova, A. & Sack, J-R. (red.). Springer, s. 217-228 (Lecture Notes in Computer Science, Bind 10389).

### **The Advice Complexity of a Class of Hard Online Problems**

Boyar, J., Favrhøldt, L. M., Kudahl, C. & Mikkelsen, J. W., 2017, I: Theory of Computing Systems. 61, 4, s. 1128-1177

### **Adding Isolated Vertices Makes Some Online Algorithms Optimal**

Boyar, J. & Kudahl, C., 2016, *Combinatorial Algorithms: 26th International Workshop, IWOCA 2015, Verona, Italy, October 5-7, 2015, Revised Selected Papers*. Lipták, Z. & Smyth, W. F. (red.). Springer, s. 65-76 (Lecture Notes in Computer Science, Bind 9538).

### **On Various Nonlinearity Measures for Boolean Functions**

Boyar, J., Find, M. G. & Peralta, R., 2016, I: Cryptography and Communications. 8, 3, s. 313-330

### **Online Algorithms with Advice: A Survey**

Boyar, J., Favrhøldt, L. M., Kudahl, C., Larsen, K. S. & Mikkelsen, J. W., 2016, I: S I G A C T News. 47, 3, s. 93-129

### **Online Bin Packing with Advice**

Boyar, J., Kamali, S., Larsen, K. S. & López-Ortiz, A., 2016, I: Algorithmica. 74, 1, s. 507-527

### **Online Bounded Analysis**

Boyar, J., Epstein, L., Favrhøldt, L. M., Larsen, K. S. & Levin, A., 2016, *Computer Science – Theory and Applications: 11th International Computer Science Symposium in Russia, CSR 2016, St. Petersburg, Russia, June 9-13, 2016, Proceedings*. Kulikov, A. S. & Woeginger, G. J. (red.). Springer, s. 131-145 (Lecture Notes in Computer Science, Bind 9691).

### **Online Dominating Set**

Boyar, J., Eidenbenz, S. J., Favrhøldt, L. M., Kotrbčik, M. & Larsen, K. S., 2016, *15th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT 2016*. Pagh, R. (red.). Schloss Dagstuhl-Leibniz-Zentrum fuer Informatik, s. 1-15 21. (Leibniz International Proceedings in Informatics, Bind 53).

### **Weighted Online Problems with Advice**

Boyar, J., Favrhøldt, L. M., Kudahl, C. & Mikkelsen, J. W., 2016, *Combinatorial Algorithms : 27th International Workshop, IWOCA 2016*. Mäkinen, V., Puglisi, S. J. & Salmela, L. (red.). Springer, s. 179-190 (Lecture Notes in Computer Science, Bind 9843).

### **Relative Interval Analysis of Paging Algorithms on Access Graphs**

Boyar, J., Gupta, S. & Larsen, K. S., 23. feb. 2015, I: Theoretical Computer Science. 568, s. 28-48

### **A Comparison of Performance Measures for Online Algorithms**

Boyar, J., Irani, S. & Larsen, K. S., 2015, I: Algorithmica. 72, 4, s. 969-994

### **Advice Complexity for a Class of Online Problems**

Boyar, J., Favrhøldt, L. M., Kudahl, C. & Mikkelsen, J. W., 2015, *32nd International Symposium on Theoretical Aspects of Computer Science (STACS 2015)*. Mayr, E. W. & Ollinger, N. (red.). Schloss Dagstuhl-Leibniz-Zentrum fuer Informatik, Bind 30. s. 116-129 (Leibniz International Proceedings in Informatics, Bind 30).

### **Cancellation-free circuits in unbounded and bounded depth**

Boyar, J. & Find, M. G., 2015, I: Theoretical Computer Science. 590, s. 17-26

### **Constructive relationships between algebraic thickness and normality**

Boyar, J. & Find, M. G., 2015, *20th International Symposium, FCT 2015, Gdańsk, Poland, August 17-19, 2015, Proceedings*. Kosowski, A. & Walukiewicz, I. (red.). Springer, s. 106-117 (Lecture Notes in Computer Science, Bind 9210).

### **The Frequent Items Problem in Online Streaming Under Various Performance Measures**

Boyar, J., Larsen, K. S. & Maiti, A., 2015, I: International Journal of Foundations of Computer Science. 26, 4, s. 413-439

### **A Comparison of Performance Measures via Online Search**

Boyar, J., Larsen, K. S. & Maiti, A., 2014, I: Theoretical Computer Science. 532, s. 2-13

### **On the List Update Problem with Advice**

Boyar, J., Kamali, S., Larsen, K. S. & López-Ortiz, A., 2014, *Language and Automata Theory and Applications: 8th International Conference, LATA 2014, Madrid, Spain, March 10-14, 2014. Proceedings*. Dediu et al., A-H. (red.). Springer, s. 210-221 (Lecture Notes in Computer Science, Bind 8370).

### **Online Bin Packing with Advice**

Boyar, J., Kamali, S., Larsen, K. S. & López-Ortiz, A., 2014, *31st Symposium on Theoretical Aspects of Computer Science, STACS 2014*. Mayr, E. W. & Portier, N. (red.). Schloss Dagstuhl-Leibniz-Zentrum fuer Informatik, s. 174-186 (Leibniz International Proceedings in Informatics, Bind 25).

### **The Relationship between Multiplicative Complexity and Nonlinearity**

Boyar, J. & Find, M. G., 2014, *Mathematical Foundations of Computer Science 2014*. Csuhaj-Varjú, E., Dietzfelbinger, M. & Ésik, Z. (red.). Springer, s. 130-140 (Lecture Notes in Computer Science, Bind 8635).

### **Bounds for scheduling jobs on grid processors**

Boyar, J. & Ellen, F., 2013, *Space-Efficient Data Structures, Streams, and Algorithms: Papers in Honor of J. Ian Munro, on the Occasion of His 66th Birthday*. Brodnik, A., Lopez-Ortiz, A., Raman, V. & Viola, A. (red.). Springer, s. 12-26 (Lecture Notes in Computer Science, Bind 8066).

### **Cancellation-Free Circuits in Unbounded and Bounded Depth**

Boyar, J. & Find, M. G., 2013, *Fundamentals of Computation: 19th International Symposium, FCT 2013*. Gaşieniec, L. & Wolter, F. (red.). Springer, s. 159-170 (Lecture Notes in Computer Science, Bind 8070).

### **Four Measures of Nonlinearity**

Boyar, J., Find, M. G. & Peralta, R., 2013, *Algorithms and Complexity - 8th International Conference, CIAC 2013, Proceedings: 8th International Conference, CIAC 2013*. Spirakis, P. G. & Serna, M. (red.). Springer, s. 61-72 12 s. (Lecture Notes in Computer Science, Bind 7878).

### **Logic Minimization Techniques with Applications to Cryptology**

Boyar, J., Matthews, P. & Peralta, R., 2013, I: Journal of Cryptology. 26, 2, s. 280-312

### **Relative Interval Analysis of Paging Algorithms on Access Graphs**

Boyar, J., Gupta, S. & Larsen, K. S., 2013, *Algorithms and Data Structures - 13th International Symposium, WADS 2013, Proceedings*. Springer, Bind 8037. s. 195-206 (Lecture Notes in Computer Science).

### **The Frequent Items Problem in Online Streaming under Various Performance Measures**

Boyar, J., Larsen, K. S. & Maiti, A., 2013, *Fundamentals of Computation Theory: 19th International Symposium, FCT 2013, Liverpool, UK, August 19-21, 2013. Proceedings*. Gaşieniec, L. & Wolter, F. (red.). Springer, Bind 8. s. 60-71 (Lecture Notes in Computer Science, Bind 8070).

### **Method of optimizing combinational circuits**

Peralta, R. & Boyar, J., 20. nov. 2012, Patentnr. US 2010/0202605 A1, 20. nov. 2012

### **A Comparison of Performance Measures via Online Search**

Boyar, J., Larsen, K. S. & Maiti, A., 2012, I: Lecture Notes in Computer Science. 7285, s. 303-314 12 s.

### **A new variable-sized bin packing problem**

Boyar, J. & Favrhøldt, L. M., 2012, I: Journal of Scheduling. 15, 3, s. 273-287

**A small depth-16 circuit for the AES S-Box**

Boyar, J. & Peralta, R., 2012, I: IFIP Advances in Information and Communication Technology. 376, s. 287-298 12 s.

**Access Graphs Results for LRU versus FIFO under Relative Worst Order Analysis**

Boyar, J., Gupta, S. & Larsen, K. S., 2012, I: Lecture Notes in Computer Science. 7357, s. 328-339 12 s.

**On the absolute approximation ratio for First Fit and related results**

Boyar, J., Dosa, G. & Epstein, L., 2012, I: Discrete Applied Mathematics. 160, s. 1914-1923 10 s.

**Scheduling Jobs on Grid Processors**

Boyar, J. & Favrhøldt, L. M., 1. jan. 2010, I: Algorithmica. 57, 4, s. 819-847 29 s.

**Tight results for Next Fit and Worst Fit with resource augmentation**

Boyar, J., Epstein, L. & Levin, A., 1. jan. 2010, I: Theoretical Computer Science. 411, s. 2572-2580 9 s.

**A new combinational logic minimization technique with applications to cryptology**

Boyar, J. & Peralta, R., 2010, *Experimental Algorithms: 9th International Symposium*. Springer, s. 178-189 (Lecture Notes in Computer Science).

**A Theoretical Comparison of LRU and LRU-K**

Boyar, J., Ehmsen, M. R., Kohrt, J. S. & Larsen, K. S., 2010, I: Acta Informatica. 47, 7-8, s. 359-374 16 s.

**Priority Algorithms for Graph Optimization Problems**

Borodin, A., Boyar, J., Larsen, K. S. & Mirmohammadi, N., 2010, I: Theoretical Computer Science. 411, 1, s. 239-258

**A comparison of performance measures for online algorithms**

Boyar, J., Irani, S. & Larsen, K. S., 2009, *Algorithms and Data Structures: 11th International Symposium, WADS 2009, Banff, Canada, August 21-23, 2009. Proceedings*. Dehne, F., Gavrilova, M., Sack, J-R. & Toth, C. D. (red.). Springer, s. 119-130 (Lecture Notes in Computer Science, Bind 5664).

**DANAIM's state-of-the-art encryption research: Making short work of cryptography**

Boyar, J., 2009, I: ERCIM Innovation. 2, s. 8 1 s.

**On the Shortest Linear Straight-Line Program for Computing Linear Forms**

Boyar, J., Matthews, P. & Peralta, R., 2008, *Mathematical Foundations of Computer Science: 33rd International Symposium, MFCS 2008*. Ochmanski, E. & Tyszkiewicz, J. (red.). s. 168-179 12 s. (Lecture Notes in Computer Science, Bind 5162).

**The Relative Worst Order Ratio Applied to Seat Reservation**

Boyar, J. & Medvedev, P., 2008, I: ACM Transactions on Algorithms. 4, 4, 22 s.

**Tight Bounds for the Multiplicative Complexity of Symmetric Functions**

Boyar, J. & Peralta, R., 2008, I: Theoretical Computer Science. 396, s. 223-246 24 s.

**The relative worst order ratio applied to paging**

Boyar, J., Favrhøldt, L. M. & Larsen, K. S., 1. aug. 2007, I: Journal of Computer and System Sciences. 73, 5, s. 818-843 26 s.

**The Relative Worst Order Ratio for On-Line Algorithms**

Boyar, J. & Favrhøldt, L. M., 2007, I: ACM Transactions on Algorithms. 3, 2, 24 s.

**Concrete Multiplicative Complexity of Symmetric Functions**

Boyar, J. & Peralta, R., 2006, *Mathematical Foundations of Computer Science 2006: 31st International Symposium, MFCS 2006, Stará Lesná, Slovakia, August 28-September 1, 2006. Proceedings*. Bind 4162. s. 179-189 11 s. (Lecture

Notes in Computer Science, Bind 4162).

#### **Scheduling jobs on Grid processors**

Boyar, J. & Favrholt, L. M., 2006, *Algorithm Theory-SWAT 2006*. Arge, L. & Freivalds, R. (red.). s. 17-28 12 s. (Lecture Notes in Computer Science, Bind 4059).

#### **The Maximum Resource Bin Packing Problem**

Boyar, J., Epstein, L., Favrholt, L. M., Kohrt, J. S., Larsen, K. S., Pedersen, M. M. & Wøhlk, S., 2006, I: *Theoretical Computer Science*. 362, 1-3, s. 127-139

#### **Theoretical Evidence for the Superiority of LRU-2 over LRU for the Paging Problem**

Boyar, J., Ehmsen, M. R. & Larsen, K. S., 2006, *Approximation and Online Algorithms*. Erlebach, T. & Kaklamanis, C. (red.). Springer Science+Business Media, s. 95-107 13 s. (Lecture Notes in Computer Science, Bind 4368).

#### **Priority Algorithms for Graph Optimization Problems**

Borodin, A., Boyar, J. & Larsen, K. S., 2005, *Second Workshop on Approximation and Online Algorithms*. Persiano, G. & Solis-Oba, R. (red.). Springer Science+Business Media, s. 126-139 (Lecture Notes in Computer Science, Bind 3351).

#### **The Maximum Resource Bin Packing Problem**

Boyar, J., Epstein, L., Favrholt, L. M., Kohrt, J. S., Larsen, K. S., Pedersen, M. M. & Wøhlk, S., 2005, *Fifteenth International Symposium on Fundamentals of Computation Theory*. Liskiewicz, M. & Reischuk, R. (red.). Springer Science+Business Media, s. 397-408 (Lecture Notes in Computer Science, Bind 3623).

#### **The Relative Worst Order Ratio Applied to Paging**

Boyar, J., Favrholt, L. M. & Larsen, K. S., 2005, *Ikke angivet*. Association for Computing Machinery, s. 718-727

#### **Seat Reservation Allowing Seat Changes.**

Boyar, J., Krarup, S. & Nielsen, M. N., 2004, I: *Journal of Algorithms*. 52, s. 169-192

#### **The Relative Worst Order Ratio Applied to Seat Reservation**

Boyar, J. & Medvedev, P., 2004, *Algorithm Theory - SWAT 2004*. Hagerup, T. & Katajainen, J. (red.). Springer, Bind 3111 . s. 90-101 (Lecture Notes in Computer Science, Bind 3111).

#### **Extending the Accommodating Function**

Boyar, J., Favrholt, L. M., Larsen, K. S. & Nielsen, M. N., 2003, I: *Acta Informatica*. 40, 1, s. 3-35 33 s.

#### **The Relative Worst Order Ratio for On-Line Algorithms**

Boyar, J. & Favrholt, L. M., 2003, *5th Italian Conference on Algorithms and Complexity (CIAC 2003)*. Petreschi, R. . R., Persiano, G. . R. & Silvestri, R. . R. (red.). Springer, Bind 2653. s. 58-69 (Lecture Notes in Computer Science, Bind 2653).

#### **Tight Bounds on the Competitive Ratio on Accommodating Sequences for the Seat Reservation Problem**

Bach, E., Boyar, J., Epstein, L., Favrholt, L. M., Jiang, T., Larsen, K. S., Lin, G-H. & van Stee, R., 2003, I: *Journal of Scheduling*. 6, 2, s. 131-147 17 s.

#### **Extending the Accommodating Function**

Boyar, J., Favrholt, L. M., Larsen, K. S. & Nielsen, M. N., 2002, *Computing and Combinatorics, 8th Annual International Conference, COCOON 2002*. Springer, s. 87-96 (Lecture Notes in Computer Science, Bind 2387).

#### **Fair versus Unrestricted Bin Packing**

Azar, Y., Boyar, J., Favrholt, L. M., Larsen, K. S. & Nielsen, M. N., 2002, I: *Algorithmica*. 34, 2, s. 181-196

#### **Seat Reservation Allowing Seat Changes**

Boyar, J., Krarup, S. & Nielsen, M. N., 2001, *Proceedings of the Satellite Workshops of the 28th International Colloquium on Automata, Languages, and Programming ATMOS 2001*. Zaroliagis, C. (red.). Elsevier, s. 24-38 15 s. (Electronic Notes in Theoretical Computer Science, Bind 50).

### **The Accommodating Function: a generalization of the competitive ratio**

Boyar, J., Larsen, K. S. & Nielsen, M. N., 2001, I: *SIAM Journal on Computing*. 31, 1, s. 233-258

### **The Competitive Ratio for On-Line Dual Bin Packing with Restricted Input Sequences**

Boyar, J., Favrhøldt, L. M., Larsen, K. S. & Nielsen, M. N., 2001, I: *Nordic Journal of Computing*. 8, 4, s. 463-472 10 s.

### **Better Bounds on the Accommodating Ratio for the Seat Reservation Problem**

Bach, E., Boyar, J., Jiang, T., Larsen, K. S. & Lin, G-H., 2000, *Computing and Combinatorics, 6th Annual International Conference, COCOON 2000*. s. 221-231 11 s. (Lecture Notes in Computer Science, Bind 1858).

### **Fair versus Unrestricted Bin Packing**

Azar, Y., Boyar, J., Favrhøldt, L. M., Larsen, K. S. & Nielsen, M. N., 2000, *Algorithm Theory - SWAT 2000, 7th Scandinavian Workshop on Algorithm Theory*. s. 200-213 14 s. (Lecture Notes in Computer Science, Bind 1851).

### **On the multiplicative complexity of boolean functions over the basis (AND, XOR, 1)**

Boyar, J., Peralta, R. & Pochuev, D., 2000, I: *Theoretical Computer Science*. 235, s. 43-57 13 s.

### **Short non-interactive cryptographic proofs**

Boyar, J., Damgård, I. & Peralta, R., 2000, I: *Journal of Cryptology*. 13, s. 449-472 24 s.

### **The Accommodating Function: a generalization of the competitive ratio**

Boyar, J., Larsen, K. S. & Nielsen, M. N., 1999, *Algorithms and Data Structures, 6th International Workshop, WADS '99*. Springer, s. 74-79 6 s. (Lecture Notes in Computer Science, Bind 1663).

### **The Seat Reservation Problem**

Boyar, J. & Larsen, K. S., 1999, I: *Algorithmica*. 25, 4, s. 403-417 15 s.

## **Aktiviteter**

### **Meeting with winners of SDU's prize for high school "researchers" in Strategic Development Goals**

Joan Boyar (Deltager)

24. jun. 2021

### **Online Algorithms with Advice and Related Models**

Joan Boyar (Deltager)

28. aug. 2020

### **Priority algorithms — part 2: lower bounds**

Joan Boyar (Foredragsholder)

28. aug. 2020

### **Program committee member for 17th Scandinavian Symposium and Workshops on Algorithm Theory (Begivenhed)**

Joan Boyar (Peer reviewer)

1. feb. 2020 → 19. apr. 2020

### **Highlights of Algorithms**

Joan Boyar (Deltager)

14. jun. 2019 → 16. jun. 2019

### **17th Workshop on Approximation and Online Algorithms (Begivenhed)**

Joan Boyar (Peer reviewer)

16. maj 2019 → 20. jul. 2019

**PIMS-UManitoba Distinguished Lecture**

Joan Boyar (Underviser)  
18. okt. 2018

**Complexity classes for Online Algorithms via Advice Complexity**

Joan Boyar (Underviser)  
16. okt. 2018

**University of Manitoba**

Joan Boyar (Gæsteforsker)  
14. okt. 2018 → 21. okt. 2018

**Program committee member 45th International Conference on Current Trends in Theory and Practice of Computer Science (Begivenhed)**

Joan Boyar (Peer reviewer)  
7. aug. 2018 → 17. okt. 2018

**International Colloquium on Automata, Languages, and Programming (ICALP) 2018**

Joan Boyar (Deltager)  
10. jul. 2018 → 13. jul. 2018

**The Scheduler is Very Powerful in Competitive Analysis of Distributed List Accessing**

Joan Boyar (Underviser)  
9. jul. 2018

**Algorithm Theory, SWAT 2018, Malmø Sweden June 18-20, 2018**

Joan Boyar (Arrangør)  
17. jun. 2018 → 20. jun. 2018

**ARCO Workshop Spring 2018**

Joan Boyar (Deltager)  
6. apr. 2018

**Program committee member 16th Scandinavian Symposium and Workshops on Algorithm Theory (Begivenhed)**

Joan Boyar (Peer reviewer)  
12. feb. 2018 → 9. apr. 2018

**Complexity classes for online algorithms via advice complexity**

Joan Boyar (Underviser)  
15. sep. 2017

**University of Toronto**

Joan Boyar (Gæsteforsker)  
1. sep. 2017 → 20. dec. 2017

**15th International Algorithms and Data Structures Symposium 2017**

Joan Boyar (Arrangør)  
30. jul. 2017 → 2. aug. 2017

**Boolean Functions and their Applications**

Joan Boyar (Arrangør)  
7. jul. 2017



**Low-depth, low-size circuits for cryptographic applications**

Joan Boyar (Underviser)  
7. jul. 2017

**Fewer Multiplications in Cryptography**

Joan Boyar (Deltager)  
30. apr. 2017

**National Institute for Standards and Technology**

Joan Boyar (Gæsteforsker)  
19. jan. 2017 → 29. jan. 2017

**Program committee for Algorithms and Data Structures Symposium (WADS 2017) (Ekstern organisation)**

Joan Boyar (Medlem)  
10. jan. 2017 → 2. aug. 2017

**Computer Science Group for the national Bibliometric Research Indicator (Ekstern organisation)**

Joan Boyar (Medlem)  
1. jan. 2017 → 31. dec. 2019

**ARCO Workshop Autumn 2016**

Joan Boyar (Deltager)  
25. nov. 2016

**Batch Coloring of Graphs**

Joan Boyar (Foredragsholder)  
25. aug. 2016

**Workshop on Approximation and Online Algorithms**

Joan Boyar (Deltager)  
25. aug. 2016 → 26. aug. 2016

**European Symposium on Algorithms**

Joan Boyar (Deltager)  
22. aug. 2016 → 24. aug. 2016

**ARCO workshop Spring 2016**

Joan Boyar (Chairman)  
4. apr. 2016

**Advice complexity for a class of online problems**

Joan Boyar (Foredragsholder)  
12. nov. 2015

**Constructive relationships between algebraic thickness and normality**

Joan Boyar (Foredragsholder)  
17. aug. 2015

**International Symposium on Fundamentals of Computation Theory**

Joan Boyar (Deltager)  
16. aug. 2015 → 19. aug. 2015

**Online Algorithms with Advice / Relative Worst Order Analysis**

Joan Boyar (Foredragsholder)

15. jun. 2015 → 19. jun. 2015

**ARCO Workshop Spring 2015**

Joan Boyar (Deltager)

29. maj 2015

**International Symposium on Theoretical Aspects of Computer Science**

Joan Boyar (Deltager)

4. mar. 2015 → 7. mar. 2015

**National Institute for Standards and Technology**

Joan Boyar (Gæsteforsker)

22. jan. 2015 → 31. jan. 2015

**ARCO (Algorithmic Research: Cooperation around Oresound) (Ekstern organisation)**

Joan Boyar (Medlem)

2015 → ...

**ARCO Workshop Fall 2014**

Joan Boyar (Deltager)

14. nov. 2014

**Danmarks Tekniske Universitet (Ekstern organisation)**

Joan Boyar (Medlem)

okt. 2014 → nov. 2014

**41st International Conference on Automata, Languages, and Programming**

Joan Boyar (Deltager)

7. jul. 2014 → 11. jul. 2014

**Trends in Online Algorithms**

Joan Boyar (Arrangør)

7. jul. 2014

**Skandinavian Symposium and Workshops on Algorithm Theory**

Joan Boyar (Deltager)

1. jul. 2014 → 4. jul. 2014

**Computability in Europe**

Joan Boyar (Arrangør)

24. jun. 2014 → 27. jun. 2014

**ARCO Workshop**

Joan Boyar (Deltager)

25. apr. 2014

**International Symposium on Theoretical Aspects of Computer Science**

Joan Boyar (Deltager)

6. mar. 2014 → 8. mar. 2014

**Aarhus Universitet (Ekstern organisation)**

Joan Boyar (Medlem)

20. dec. 2013

**19th International Symposium on Fundamentals of Computation Theory**

Joan Boyar (Deltager)

19. aug. 2013 → 21. aug. 2013

**Conference on Space Efficient Data Structures, Streams and Algorithms**

Joan Boyar (Deltager)

15. aug. 2013 → 16. aug. 2013

**Algorithms & Data Structures Symposium**

Joan Boyar (Deltager)

11. aug. 2013 → 14. aug. 2013

**CTIC Workshop on Algebraic Complexity Theory**

Joan Boyar (Deltager)

18. mar. 2013

**ICALP 2013 (Tidsskrift)**

Joan Boyar (Peer reviewer)

1. mar. 2013 → 31. mar. 2013

**Program committee for Latin American Theoretical INformatics (LATIN 2014) (Ekstern organisation)**

Joan Boyar (Medlem)

15. feb. 2013 → 29. nov. 2013

**National Institute for Standards and Technology**

Joan Boyar (Gæsteforsker)

6. jan. 2013 → 18. jan. 2013

**Information Processing Letters (Tidsskrift)**

Joan Boyar (Peer reviewer)

2013 → ...

**Access Graphs Results for LRU versus FIFO under Relative Worst Order Analysis**

Joan Boyar (Foredragsholder)

14. dec. 2012

**e-M R Sections (Tidsskrift)**

Joan Boyar (Peer reviewer)

10. dec. 2012

**A small depth-16 circuit for the AES S-box**

Joan Boyar (Foredragsholder)

3. okt. 2012

**Information Processing Letters (Tidsskrift)**

Joan Boyar (Peer reviewer)

1. aug. 2012 → 31. aug. 2012

**Journal of Systems and Software (Tidsskrift)**

Joan Boyar (Peer reviewer)

1. aug. 2012 → 31. aug. 2012

**University of Waterloo**

Joan Boyar (Gæsteforsker)  
1. aug. 2012 → 20. dec. 2012

**13th Scandinavian Symposium and Workshops on Algorithm Theory**

Joan Boyar (Deltager)  
4. jul. 2012 → 6. jul. 2012

**International Workshop on Digital Forensics & Incident Analysis**

Joan Boyar (Deltager)  
6. jun. 2012 → 8. jun. 2012

**A small depth-16 circuit for the AES S-Box**

Joan Boyar (Foredragsholder)  
5. jun. 2012

**IFIP TC 11 Information Security and Privacy Conference**

Joan Boyar (Deltager)  
4. jun. 2012 → 6. jun. 2012

**Greenlight for Girls (Ekstern organisation)**

Joan Boyar (Medlem)  
21. apr. 2012

**Algorithmica (Tidsskrift)**

Joan Boyar (Peer reviewer)  
1. feb. 2012 → 28. feb. 2012

**Institute for Standards and Technology**

Joan Boyar (Gæsteforsker)  
5. jan. 2012 → 13. jan. 2012

**RSA and primality testing**

Joan Boyar (Underviser)  
28. nov. 2011

**e-M R Sections (Tidsskrift)**

Joan Boyar (Peer reviewer)  
1. okt. 2011 → 31. okt. 2011

**Seminar om Informationsteknologi**

Joan Boyar (Deltager)  
5. maj 2011

**National Institute of Standards and Technology**

Joan Boyar (Gæsteforsker)  
13. jan. 2011 → 25. jan. 2011

**RSA and Primality Testing**

Joan Boyar (Underviser)  
30. nov. 2010

**9th International Symposium on Experimental Algorithms, SEA 2010**

Joan Boyar (Deltager)  
19. maj 2010 → 22. maj 2010

**Quality Measures for On-Line Algorithms**

Joan Boyar (Foredragsholder)  
18. maj 2010

**e-M R Sections (Tidsskrift)**

Joan Boyar (Peer reviewer)  
1. jan. 2010

**Theory of Computing (Tidsskrift)**

Joan Boyar (Redaktør)  
1. jan. 2010

**Five analysis techniques for on-line algorithms**

Joan Boyar (Foredragsholder)  
21. apr. 2009

**Dagstuhl Seminar : Adaptive, Output Sensitive, Online and parameterized Algorithms**

Joan Boyar (Deltager)  
19. apr. 2009 → 24. apr. 2009

**Foredrag til Georg Mohr-Konkurrencens Vinderseminar**

Joan Boyar (Foredragsholder)  
2. mar. 2009

**National Institute for Standards and Technology**

Joan Boyar (Gæsteforsker)  
8. jan. 2009 → 16. jan. 2009

**9th Latin American Theoretical Informatics Symposium (LATIN 2010) (Tidsskrift)**

Joan Boyar (Redaktør)  
1. jan. 2009

**e-M R Sections (Tidsskrift)**

Joan Boyar (Redaktør)  
1. jan. 2009

**Primalstestning**

Joan Boyar (Foredragsholder)  
25. sep. 2008

**On the Shortest Linear Straight-Line Program for Computing Linear Forms**

Joan Boyar (Foredragsholder)  
27. aug. 2008

**Draw the Line! : Cultural boundary - making the everyday academic work life**

Joan Boyar (Deltager)  
30. maj 2008 → 31. maj 2008

**Automata, Languages and Programming, 34th International Colloquium, ICALP 2007 (Tidsskrift)**

Joan Boyar (Redaktør)  
1. jan. 2008

**Mathematical reviews (Tidsskrift)**

Joan Boyar (Redaktør)

1. jan. 2008

**National Institute for Standards and Technology**

Joan Boyar (Gæsteforsker)

3. dec. 2007 → 8. dec. 2007

**Speaker**

Joan Boyar (Foredragsholder)

9. nov. 2007

**University of Toronto**

Joan Boyar (Gæsteforsker)

6. nov. 2007 → 12. nov. 2007

**ALGO 2007 : ESA 2007WAOA 2007**

Joan Boyar (Deltager)

7. okt. 2007 → 13. okt. 2007

**CRYPTO 2007**

Joan Boyar (Deltager)

20. aug. 2007 → 23. aug. 2007

**University of California**

Joan Boyar (Gæsteforsker)

1. jul. 2007 → 20. dec. 2007

**Censorkorpset for datalogi (Ekstern organisation)**

Joan Boyar (Medlem)

1. apr. 1994 → ...