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## Uddannelse

2009  
PhD, Department of Computer Science, Aarhus University, Denmark  
Advisor: Gerth Stølting Brodal (<http://www.cs.au.dk/~gerth>)  
1991  
MSc in Computer Science and Mathematics, Aarhus University, Denmark

## Erhvervserfaring

2013 - present  
Associate Professor  
AU Herning  
Aarhus University  
2003 - 2013  
Assistant Professor  
AU Herning  
Aarhus University  
2002 - 2003  
System developer  
Jyske Bank  
1997 - 2002  
Assistant Professor  
CEU Herning  
Teaching Java Programming, Databases and Web Programming  
1992 - 1997  
Assistant Professor  
Herning High School  
Teaching Mathematics and Computer Science  
1991 - 1992  
System Developer  
Den Danske Bank (The leading Danish bank)  
Co-founder of the company cofman.com

## Reviewer Erfaring

Konferencer: PODS, SWAT, STACS, Alenex, AMCIS  
Tidsskrifter:  
International Journal of Project Organisation and Management  
ACM Transactions on Spatial Algorithms and Systems

## Forskningsområder

Optimering, Beregningsmæssig kompleksitet, Algoritmer, Grafer, Simple Games

## Undervisningsområder

Optimering, Algoritmer, Grafer (Netværk), IT-arkitektur, AI

## Publikationer

**Removing Unwanted Text from Architectural Images with Multi-Scale Deformable Attention-Based Machine Learning.** / Lystbæk, Michael; Giannakidis, Archontis ; Beliatas, Michail et al.  
2023 IEEE International Conference on Imaging Systems and Techniques (IST). IEEE, 2023. (IEEE International

Conference on Imaging Systems and Techniques Proceedings).

**An asymptotically optimal algorithm for online stacking.** / Olsen, Martin; Andersen, Lars Nørvang; Gross, Allan.  
I: Mathematical Methods of Operations Research, Bind 97, Nr. 2, 04.2023, s. 161-178.

**Associations of age, BMI, and renal function to cortisol after dexamethasone suppression in patients with adrenal incidentalomas.** / Olsen, Henrik; Olsen, Martin.  
I: Frontiers in Endocrinology, Bind 13, 1055298, 01.2023.

**Oblivious Stacking and MAX  $k$ -CUT for Circle Graphs.** / Olsen, Martin.  
Computational Logistics - 13th International Conference, ICCL 2022, Proceedings. red. / Jesica de Armas; Helena Ramalhinho; Stefan Voß. Springer, 2022. s. 322-335 (Lecture Notes in Computer Science, Bind 13557).

**Associations of age, BMI, and renal function to cortisol after dexamethasone suppression in patients with adrenal incidentalomas.** / Olsen, Henrik; Puvaneswaralingam, Shobitha; Olsen, Martin.  
2022. Abstract fra European Congress of Endocrinology 2022, Milano, Italien.

**Generalised online colouring problems in overlap graphs.** / Demange, Marc; Olsen, Martin.  
I: Theoretical Computer Science, Bind 877, 07.2021, s. 58-73.

**Distance Hedonic Games.** / Flammini, Michele; Kodric, Bojana; Olsen, Martin et al.  
SOFSEM 2021: Theory and Practice of Computer Science - 47th International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2021, Proceedings. Springer, 2021. s. 159-174 (Lecture Notes in Computer Science (LNCS), Bind 12607).

**The Past, Present and Future Global Offshore Wind Power Potential.** / Enevoldsen, Peter; Srirajan, Tharsika Pakeerathan ; Olsen, Martin.  
2021. Abstract fra WindEurope Electric City 2021, Copenhagen.

**Distance Hedonic Games.** / Flammini, Michele; Kodric, Bojana; Olsen, Martin et al.  
AAMAS 2020, May 9–13, Auckland, New Zealand. IFAAMAS, 2020.

**Haptic Rendering of Wearable Interfaces using Machine Learning.** / Chinello, Francesco; Olsen, Martin; Pacchierotti, Claudio.  
2020. Poster session præsenteret ved EuroHaptics.

**Online Stacking Using RL with Positional and Tactical Features.** / Olsen, Martin.  
Learning and Intelligent Optimization - 14th International Conference, LION 14, 2020, Revised Selected Papers: LION 2020. red. / Ilias S. Kotsireas; Panos M. Pardalos. Cham: Springer, 2020. s. 184-194 (Lecture Notes in Computer Science, Bind 12096).

**Fractional hedonic games.** / Aziz, Haris; Brandl, Florian; Brandt, Felix et al.  
I: ACM Transactions on Economics and Computation, Bind 7, Nr. 2, a6, 06.2019.

**Coverage Centrality Maximization in Undirected Networks.** / Severini, Lorenzo ; Olsen, Martin; D'Angelo, Gianlorenzo.  
I: Proceedings of the AAAI Conference on Artificial Intelligence, Bind 33, Nr. 1, 2019, s. 501-508.

**A Note on Online Colouring Problems in Overlap Graphs and Their Complements.** / Demange, Marc; Olsen, Martin.  
WALCOM: Algorithms and Computation - 12th International Conference, WALCOM 2018, Proceedings. Bind 10755 Springer, 2018. s. 144-155 (Lecture Notes in Computer Science).

**Towards Asymptotically Optimal One-to-One PDP Algorithms for Capacity 2+ Vehicles.** / Olsen, Martin; Andersen, Lars Nørvang.  
Computational Logistics - 9th International Conference, ICCL 2018, Proceedings. Springer, 2018. s. 268-278 (Lecture Notes in Computer Science).

**On Covering Codes and Upper Bounds for the Dimension of Simple Games.** / Olsen, Martin.  
Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence. Bind 1 2017. s. 629-634.

**Dimension and codimension of simple games.** / Kurz, Sascha; Molinero, Xavier; Olsen, Martin et al.  
I: Electronic Notes in Discrete Mathematics, Bind 55, 2016, s. 147-150.

**On the Complexity of Exchanging.** / Molinero, Xavier; Olsen, Martin; Serna, Maria.  
I: Information Processing Letters, Bind 116, Nr. 6, 2016, s. 437-441.

**On the Construction of High-Dimensional Simple Games.** / Olsen, Martin; Kurz, Sascha; Molinero, Xavier.  
Frontiers in Artificial Intelligence and Applications. Bind 285 IOS Press, 2016. s. 880-885 (Frontiers in Artificial Intelligence and Applications).

**On the Complexity of Some Specific Problems on Simple Games.** / Molinero, Xavier; Olsen, Martin; Serna, Maria.  
2015. Paper præsenteret ved EURO 2015, Glasgow, Storbritannien.

**Probabilistic Analysis of Online Stacking Algorithms.** / Olsen, Martin; Gross, Allan.  
Computational Logistics: 6th International Conference, ICCL 2015. Bind 9335 Springer VS, 2015. s. 358-369 (Lecture Notes in Computer Science).

**We all know how, don't we? On the role of Scrum in IT-offshoring.** / Koch, Christian; Jørgensen, Claus; Olsen, Martin et al.  
IFIP Advances in Information and Communication Technology. red. / Birgitta Bergvall-Kåreborn; Peter Axel Nielsen. Bind 429 Berlin: Springer, 2014. s. 96-112 (IFIP AICT - Advances in Information and Communication technology, Bind 429).

**Architectural Issues related to Feral Information Systems.** / Bækgaard, Lars; Olsen, Martin; Tambo, Torben.  
Feral Information Systems Development. Managerial implications. red. / Donald Kerr; Kevin Burgess; Luke Houghton. Hershey, PA: IGI global, 2014. s. 227-241 (Advances in Business Information Systems and Analytics).

**Average Case Analysis of Blocks Relocation Heuristics.** / Olsen, Martin; Gross, Allan.  
Computational Logistics: 5th International Conference, ICCL 2014, Valparaiso, Chile, September 24-26, 2014. Proceedings. red. / Rosa G. González-Ramírez ; Frederik Schulte ; Stefan Voß; Jose A. Ceroni Diaz. Springer, 2014. s. 81-92 (Lecture Notes in Computer Science, Bind 8760).

**Motives for Feral Systems in Denmark.** / Tambo, Torben; Olsen, Martin; Bækgaard, Lars.  
Feral Information Systems Development. Managerial Implications. red. / Donald Kerr; Kevin Burgess; Luke Houghton. Hershey, PA: IGI global, 2014. s. 129-160 (Advances in Business Information Systems and Analytics).

**On the Approximability of the Link Building Problem.** / Olsen, Martin; Viglas, Anastasios.  
I: Theoretical Computer Science, Bind 518, 2014, s. 96-116.

**Shared Resources in Service Systems.** / Bækgaard, Lars; Tambo, Torben; Olsen, Martin.  
Proceedings of the 8th Mediterranean Conference on Information Systems, Verona, Italy, September 03-05. 2014.

**A General View on Computing Communities.** / Olsen, Martin.  
I: Mathematical Social Sciences, Bind 66, Nr. 3, 11.2013, s. 331-336.

**On Alliance Partitions and Bisection Width for Planar Graphs.** / Olsen, Martin; Revsbæk, Morten.  
I: Journal of Graph Algorithms and Applications, Bind 17, Nr. 6, 11.2013, s. 599-614.

**Alliances and Bisection Width for Planar Graphs.** / Olsen, Martin; Revsbæk, Morten.  
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Computer Science, Bind 7748).

**On the Complexity of Computing Optimal Private Park-and-Ride Plans.** / Olsen, Martin.

Computational Logistics: 4th International Conference, ICCL 2013, Copenhagen, Denmark, September 25-27, 2013, Proceedings. red. / Dario Voss; Stefan Jensen; Rune Møller. Springer, 2013. s. 73-82 (Lecture Notes in Computer Science, Bind 8197).

**On non-trivial Nash stable partitions in additive hedonic games with symmetric 0/1-utilities.** / Olsen, Martin; Bækgaard, Lars; Tambo, Torben.

I: Information Processing Letters, Bind 112, Nr. 23, 15.12.2012, s. 903-907.

**Organisational Dynamics and Ambiguity of Business Intelligence in Context of Enterprise Information Systems – a case study.** / Tambo, Torben; Gabel, Ole Dahl; Olsen, Martin et al.

Proceedings of the 6th International Conference on Research and Practical Issues of Enterprise Information Systems (CONFENIS): Enterprise Information systems of the future - evolving towards more performance through transparency and agility. 2012.

**On Defining and Computing Communities.** / Olsen, Martin.

I: Conferences in Research and Practice in Information Technology, Bind 128, 2012, s. 97-102.

**On the Complexity of Problems on Simple Games.** / Freixas, Josep; Molinero, Xavier; Olsen, Martin et al.

I: R A I R O - Operations Research, Bind 45, 2011, s. 295-314.

**Maximizing PageRank with New Backlinks.** / Olsen, Martin.

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**How little do we need to know about Enterprise Resource Planning (ERP)? - A critical review of information systems research on ERP.** / Koch, Christian; Olsen, Martin; Tambo, Torben.

I: Proceedings of the IRIS Conference, Bind 33, 08.2010.

**Offshoring – the new dilemma of IS research.** / Tambo, Torben; Olsen, Martin.

I: Proceedings of the IRIS Conference, Bind 33, 08.2010.

**A Constant-Factor Approximation Algorithm for the Link Building Problem.** / Olsen, Martin; Viglas, Anastasios; Zvedeniouk, Iliia.

I: Lecture Notes in Computer Science, Bind 6509, 2010, s. 87-96.

**Completeness on Simple Games.** / Freixas, Josep; Molinero, Xavier; Olsen, Martin et al.

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**Link Building.** / Olsen, Martin.

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**Nash Stability in Additively Separable Hedonic Games and Community Structures.** / Olsen, Martin.

I: Theory of Computing Systems, Bind 45, Nr. 4, 2009, s. 917-925.

**Communities in Large Networks: Identification and Ranking.** / Olsen, Martin.

I: Lecture Notes in Computer Science, Bind 4936, 2008, s. 84-96.

**The Computational Complexity of Link Building.** / Olsen, Martin.

I: Lecture Notes in Computer Science, Bind 5092, 2008, s. 119-129.

**Nash Stability in Additively Separable Hedonic Games is NP-hard.** / Olsen, Martin.  
Computation and Logic in the Real World. Bind 4497/2007 4497 of Lecture Notes in Computer Science. udg. Springer, 2007. s. 598 - 605.

**Embedded Unified Development Process - EUDP.** / Kollé, Klaus; Lysgaard, Per; Bejder, Karsten et al.  
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