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Department of Business Development and Technology  
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## Education

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

## Professional Experience

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 Experience

Conferences: PODS, SWAT, STACS, Alenex, AMCIS

Journals:  
International Journal of Project Organisation and Management  
ACM Transactions on Spatial Algorithms and Systems

## Research Areas

Optimisation, Computational Complexity, Algorithms, Graphs, Simple Games

## Teaching Areas

Optimisation, Algorithms, Graphs (Networks), IT-architecture, AI

## Publications

**Removing Unwanted Text from Architectural Images with Multi-Scale Deformable Attention-Based Machine Learning.** / Lystbæk, Michael; Giannakidis, Archontis ; Beliatis, 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.

In: Mathematical Methods of Operations Research, Vol. 97, No. 2, 04.2023, p. 161-178.

**Associations of age, BMI, and renal function to cortisol after dexamethasone suppression in patients with adrenal incidentalomas.** / Olsen, Henrik; Olsen, Martin.

In: Frontiers in Endocrinology, Vol. 13, 1055298, 01.2023.

**Oblivious Stacking and MAX  $k$ -CUT for Circle Graphs.** / Olsen, Martin.

Computational Logistics - 13th International Conference, ICCL 2022, Proceedings. ed. / Jesica de Armas; Helena Ramalhinho; Stefan Voß. Springer, 2022. p. 322-335 (Lecture Notes in Computer Science, Vol. 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 from European Congress of Endocrinology 2022, Milano, Italy.

**Generalised online colouring problems in overlap graphs.** / Demange, Marc; Olsen, Martin.

In: Theoretical Computer Science, Vol. 877, 07.2021, p. 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. p. 159-174 (Lecture Notes in Computer Science (LNCS), Vol. 12607).

**The Past, Present and Future Global Offshore Wind Power Potential.** / Enevoldsen, Peter; Srirajan, Tharsika Pakeerathan ; Olsen, Martin.

2021. Abstract from 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 presented at 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. ed. / Ilias S. Kotsireas; Panos M. Pardalos. Cham: Springer, 2020. p. 184-194 (Lecture Notes in Computer Science, Vol. 12096).

**Fractional hedonic games.** / Aziz, Haris; Brandl, Florian; Brandt, Felix et al.

In: ACM Transactions on Economics and Computation, Vol. 7, No. 2, a6, 06.2019.

**Coverage Centrality Maximization in Undirected Networks.** / Severini, Lorenzo ; Olsen, Martin; D'Angelo, Gianlorenzo.

In: Proceedings of the AAAI Conference on Artificial Intelligence, Vol. 33, No. 1, 2019, p. 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. Vol. 10755 Springer, 2018. p. 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. p. 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. Vol. 1 2017. p. 629-634.

**Dimension and codimension of simple games.** / Kurz, Sascha; Molinero, Xavier; Olsen, Martin et al. In: Electronic Notes in Discrete Mathematics, Vol. 55, 01.11.2016, p. 147-150.

**On the Complexity of Exchanging.** / Molinero, Xavier; Olsen, Martin; Serna, Maria. In: Information Processing Letters, Vol. 116, No. 6, 01.06.2016, p. 437-441.

**On the Construction of High-Dimensional Simple Games.** / Olsen, Martin; Kurz, Sascha; Molinero, Xavier. Frontiers in Artificial Intelligence and Applications. Vol. 285 IOS Press, 2016. p. 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 presented at EURO 2015, Glasgow, United Kingdom.

**Probabilistic Analysis of Online Stacking Algorithms.** / Olsen, Martin; Gross, Allan. Computational Logistics: 6th International Conference, ICCL 2015. Vol. 9335 Springer VS, 2015. p. 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. ed. / Birgitta Bergvall-Kåreborn; Peter Axel Nielsen. Vol. 429 Berlin: Springer, 2014. p. 96-112 (IFIP AICT - Advances in Information and Communication technology, Vol. 429).

**Architectural Issues related to Feral Information Systems.** / Bækgaard, Lars; Olsen, Martin; Tambo, Torben. Feral Information Systems Development. Managerial implications. ed. / Donald Kerr; Kevin Burgess; Luke Houghton. Hershey, PA: IGI global, 2014. p. 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. ed. / Rosa G. González-Ramírez ; Frederik Schulte ; Stefan Voß; Jose A. Ceroni Diaz. Springer, 2014. p. 81-92 (Lecture Notes in Computer Science, Vol. 8760).

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

**On the Approximability of the Link Building Problem.** / Olsen, Martin; Viglas, Anastasios. In: Theoretical Computer Science, Vol. 518, 2014, p. 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.

In: Mathematical Social Sciences, Vol. 66, No. 3, 11.2013, p. 331-336.

**On Alliance Partitions and Bisection Width for Planar Graphs.** / Olsen, Martin; Revsbæk, Morten.

In: Journal of Graph Algorithms and Applications, Vol. 17, No. 6, 11.2013, p. 599-614.

**Alliances and Bisection Width for Planar Graphs.** / Olsen, Martin; Revsbæk, Morten.

WALCOM: Algorithms and Computation: 7th International Workshop, WALCOM 2013, Kharagpur, India, February 14-16, 2013. Proceedings. ed. / Subir Kumar Ghosh; Takeshi Tokuyama . Springer VS, 2013. p. 206-216 (Lecture Notes in Computer Science, Vol. 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. ed. / Dario Voss; Stefan Jensen; Rune Møller. Springer, 2013. p. 73-82 (Lecture Notes in Computer Science, Vol. 8197).

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

In: Information Processing Letters, Vol. 112, No. 23, 15.12.2012, p. 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.

In: Conferences in Research and Practice in Information Technology, Vol. 128, 2012, p. 97-102.

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

In: R A I R O - Operations Research, Vol. 45, 2011, p. 295-314.

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

In: Lecture Notes in Computer Science, Vol. 6078, 05.11.2010, p. 37-48.

**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.

In: Proceedings of the IRIS Conference, Vol. 33, 08.2010.

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

In: Proceedings of the IRIS Conference, Vol. 33, 08.2010.

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

In: Lecture Notes in Computer Science, Vol. 6509, 2010, p. 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.  
In: Theory of Computing Systems, Vol. 45, No. 4, 2009, p. 917-925.

**Communities in Large Networks: Identification and Ranking.** / Olsen, Martin.  
In: Lecture Notes in Computer Science, Vol. 4936, 2008, p. 84-96.

**The Computational Complexity of Link Building.** / Olsen, Martin.  
In: Lecture Notes in Computer Science, Vol. 5092, 2008, p. 119-129.

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

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