

A new exact algorithm for the maximum-weight clique problem based on a heuristic vertex-coloring and a backtrack search

Kumlander, Deniss Proceedings of the Forth International Conference on Engineering Computational Technology 2004 / p. 137

A practical algorithm for the maximum clique finding

Kumlander, Deniss Proceedings of the IADIS International Conference Applied Computing 2006 : San Sebastian, Spain, 2006, February 25-28 2006 / p. 266-272 <https://www.iadisportal.org/digital-library/a-practical-algorithm-for-the-maximum-clique-finding>

A simple and efficient algorithm for the maximum clique finding reusing a heuristic vertex colouring

Kumlander, Deniss IADIS international journal on computer science and information system 2006 / 2, p. 32-49
<https://www.iadisportal.org/ijcsis/papers/2006110203.pdf>

An approach for the maximum clique finding problem test tool software engineering

Kumlander, Deniss Proceedings of the IASTED International Conference on Software Engineering as part of the 25th IASTED International Multi-Conference on Applied Informatics : Innsbruck, Austria, 13-15.02.2007 2007 / p. 297-301
<https://dl.acm.org/doi/10.5555/1332044.1332092>

An extended comparison of the best known algorithms for finding the unweighted maximum clique

Kumlander, Deniss Modelling, computation and optimization in information systems and management sciences 2008 / p. 175-181
https://www.researchgate.net/publication/221451751_An_Extended_Comparison_of_the_Best_Known_Algorithms_for_Finding_the_Unweighted_Maximum_Clique

Applying AI and incomplete solution principles to solve NP-hard problems in the real-time systems

Kumlander, Deniss Proceedings of the WSEAS Conference : 10th WSEAS Conference on Computers : Vouliagmeni, Athens, Greece, July 10-15, 2006 2006 / p. 807-811
https://www.researchgate.net/publication/242103446_Applying_AI_and_Incomplete_Solution_Principles_to_Solve_NP-hard_Problems_in_the_Real-Time_Systems

Artificial intelligence in the maximum clique finding problem applications

Kumlander, Deniss Proceedings of the WSEAS Conference : 7th WSEAS International Conference on Automation & Information (ICAI'06) : Cavtat, Croatia, June 13-15, 2006 2006 / p. 132-137
https://www.researchgate.net/publication/234778320_Artificial_intelligence_in_the_maximum_clique_finding_problem_applications

Balancing supporting software development by dedicated infrastructure elements

Kumlander, Deniss Proceedings of the IASTED Conference on Software Engineering as part of the 26th IASTED International Multi-Conference on Applied Informatics : Innsbruck, Austria, February 12-14, 2008 2008 / p. 243-248

Bridging gaps between requirements, expectations and delivered software in information systems development

Kumlander, Deniss WSEAS transactions on computers 2006 / 12, p. 2933-2939
https://www.researchgate.net/publication/290327110_Bridging_gaps_between_requirements_expectations_and_delivered_software_in_information_systems_development

Bridging uncertainties gaps in software development projects

Kumlander, Deniss ICEIS 2008 : Proceedings of the Tenth International Conference on Enterprise Information Systems. Vol ISAS-2, Information systems analysis and specification. Vol. 2 2008 / p. 240-245

Collaborative software engineering of the life-critical systems

Kumlander, Deniss Proceedings of the WSEAS conference : 6th WSEAS International Conference on Software Engineering, Parallel and Distributed Systems (SEPADS'07) : Corfu Island, Greece, February 16-19, 2007 2007 / p. 35-38 <http://www.wseas.us/e-library/conferences/2007corfu/papers/540-196.pdf>

Communication gaps and requirements uncertainties in the information systems design

Kumlander, Deniss Proceedings of the WSEAS Conference : The 6th WSEAS International Conference on Applied Informatics and Communications : Elounda, Crete, Greece, 18-20.08.2006 2006 / p. 400-405
<https://citeseerx.ist.psu.edu/viewdoc/download;jsessionid=47EF002F94CE4D42B245976A485EDFED?doi=10.1.1.584.736&rep=rep1&type=pdf>

Comparing the best maximum clique finding algorithms, which are using heuristic vertex colouring

Kumlander, Deniss Proceedings of the WSEAS Conference : 10th WSEAS Conference on Computers : Vouliagmeni, Athens, Greece, July 10-15, 2006 2006 / p. 932-937 <https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=6a835c6002434a8e0985d850356794d9bc74879e>

Context driven personalized e-learning environment provided as a state service

Kumlander, Deniss Technological developments in networking, education and automation 2010 / p. 43-48

Contextual semantic : a context-aware approach for semantic web based data extraction from scientific articles

Kumlander, Deniss Innovations in computing sciences and software engineering 2010 / p. 241-244

E-education as a state service to citizens of different ages

Kumlander, Deniss Technological developments in education and automation 2010 / p. 461-466

E-learning environment identification system : error injection and patterns dynamics

Kumlander, Deniss Innovations and advances in computer, information, systems sciences, and engineering 2013 / p. 917-924

https://doi.org/10.1007/978-1-4614-3535-8_76 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

An experimental comparison of heuristic coloring algorithms in terms of found color classes on random graphs

Kumlander, Deniss; Kulitškov, Aleksei WCGO 2019: Optimization of Complex Systems: Theory, Models, Algorithms and

Applications 2020 / p. 365-375 https://doi.org/10.1007/978-3-030-21803-4_37 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Hybrid software engineering

Kumlander, Deniss WSEAS transactions on business and economics 2006 / 10, p. 686-691

Improving the maximum clique finding applications by using artificial intelligence principles

Kumlander, Deniss WSEAS transactions on computers 2006 / 8, p. 1726-1732

https://www.researchgate.net/publication/288446461_Improving_the_maximum_clique_finding_applications_by_using_artificial_intelligence_principles

Improving the maximum-weight clique algorithm for the dense graphs

Kumlander, Deniss Proceedings of the WSEAS Conference : 10th WSEAS Conference on Computers : Vouliagmeni, Athens, Greece, July 10-15, 2006 2006 / p. 938-943

Incomplete solution approach for the maximum clique finding in the real-time systems

Kumlander, Deniss Proceedings of the IASTED International Conference on Artificial Intelligence and Applications 2006 / p. 75-79

https://www.researchgate.net/publication/221173835_Incomplete_Solution_Approach_for_the_Maximum_Clique_Finding_in_the_Real_Time_Systems

Key success factors in personnel motivating projects

Kumlander, Deniss Proceedings of the 7th WSEAS International Conference on Applied Informatics and Communication :

Vouliagmeni, Athens, Greece, August 24-26, 2007 2007 / p. 202-207 <https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=2c83feee792ef9407179ab85adb45075dcb33478>

Migration of software projects' goals and expectations

Kumlander, Deniss Proceedings of the WSEAS Conference : 5th WSEAS Int Conf. on Data networks, Communications and

Computers : DNCOCO'06 2006 / p. 184-187 <https://dl.acm.org/doi/abs/10.5555/1974079.1974116>

Motivating company personnel by applying the semi-self-organized teams principle

Kumlander, Deniss Innovations in computing sciences and software engineering 2010 / p. 245-248

https://link.springer.com/chapter/10.1007/978-90-481-9112-3_41

A new exact algorithm for the maximum-weight clique problem based on a heuristic vertex-coloring and a backtrack search

Kumlander, Deniss Modelling, Computation and Optimization in Information Systems and Management Sciences : Metz, France 2004 / p. 202-208

NP-hard graph problems' algorithms testing guidelines : artificial intelligence principles and testing as a service

Kumlander, Deniss Advances in computer and information sciences and engineering 2008 / p. 114-118 : ill

https://link.springer.com/chapter/10.1007/978-1-4020-8739-4_20

NP-hard graph problems' algorithms testing guidelines : artificial intelligence principles and testing as a service

Kumlander, Deniss Innovative techniques in instruction technology, e-learning, e-assessment, and education 2008 / p. 112-116

https://link.springer.com/chapter/10.1007/978-1-4020-8739-4_20

On importance of a special sorting in the maximum-weight clique algorithm based on colour classes

Kumlander, Deniss Modelling, computation and optimization in information systems and management sciences 2008 / p. 165-174

https://link.springer.com/chapter/10.1007/978-3-540-87477-5_18

On optimizing payments clearance business process – an evolutionary approach

Kumlander, Deniss Advances in computer science : proceedings of the 6th WSEAS European Computing Conference (ECC'12) : Prague, Czech Republic, September 24-26, 2012 2012 / p. 505-510

On places suitable for applying AI principles in NP-hard graph problem's algorithms

Kumlander, Deniss Proceedings of the IASTED Conference on Artificial Intelligence and Applications as part of the 25th IASTED International Multi-Conference on Applied Informatics : Innsbruck, Austria, 12-14.02.2007 2007 / p. 284-288

<https://dl.acm.org/doi/abs/10.5555/1295303.1295352>

On software design and development supporting requirements formulation

Kumlander, Deniss Proceedings of the WSEAS Conference : 10th WSEAS Conference on Computers : Vouliagmeni, Athens, Greece, July 10-15, 2006 2006 / p. 818-825 <https://dl.acm.org/doi/abs/10.5555/1981848.1982001>

On software projects affecting requirements by internal releases

Kumlander, Deniss WSEAS transactions on business and economics 2006 / 6, p. 492-497

On synergy of motivational projects and agile software development practices

Kumlander, Deniss Emerging trends in computing, informatics, systems sciences, and engineering 2013 / p. 487-497
https://doi.org/10.1007/978-1-4614-3558-7_41 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

On using software engineering projects as an additional personnel motivating factor

Kumlander, Deniss WSEAS transactions on business and economics 2006 / 4, p. 261-267

On verification of the software development process

Kumlander, Deniss Innovations and advances in computing, informatics, systems sciences, networking and engineering 2015 / p. 339-343 https://doi.org/10.1007/978-3-319-06773-5_45 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Personnel motivating projects : reasons, implementation and risks

Kumlander, Deniss Proceedings of the WSEAS conference : 6th WSEAS International Conference on Software Engineering, Parallel and Distributed Systems (SEPADS'07) : Corfu Island, Greece, February 16-19, 2007 2007 / p. 30-34
https://www.researchgate.net/publication/241772463_Personnel_motivating_projects_reasons_implementation_and_risks

Personnel motivating software reengineering

Kumlander, Deniss Proceedings of the WSEAS Conference : 10th WSEAS Conference on Computers : Vouliagmeni, Athens, Greece, July 10-15, 2006 2006 / p. 826-830
https://www.researchgate.net/publication/252013585_Personnel_Motivating_Software_Reengineering

Problems of optimization : an exact algorithm for binding a maximum clique optimized for the dense graphs

Kumlander, Deniss ISMP2003 : Copenhagen, 2003 : program and abstracts book 2003 / p. 114 https://kirj.ee/wp-content/plugins/kirj/pub/phys-2-2005-79-86_20211016172808.pdf

Problems of optimization : an exact algorithm for finding a maximum clique optimized for dense graphs

Kumlander, Deniss Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2005 / 2, p. 79-86

Product owner responsibilities in the project assurance process : bridging uncertainties gaps

Kumlander, Deniss Innovations and advances in computing, informatics, systems sciences, networking and engineering 2015 / p. 515-519 https://doi.org/10.1007/978-3-319-06773-5_69 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Providing a correct software design in an environment with some set of restrictions in a communication between product managers and designers

Kumlander, Deniss Proceedings of the Fourteenth International Conference on Information Systems Development : pre-conference 14-17 August 2005, Karlstad, Sweden 2005 / p. 1-11 https://link.springer.com/chapter/10.1007/978-0-387-36402-5_16

Providing a correct software design in an environment with some set of restrictions in a communication between product managers and designers

Kumlander, Deniss Advances in information systems development : bridging the gap between academia and industry. 1 2006 / p. 181-192 https://link.springer.com/chapter/10.1007/978-0-387-36402-5_16

Real-time systems : incomplete solution approach for the maximum-weight clique problem

Kumlander, Deniss Proceedings of the IASTED International Conference on Artificial Intelligence and Applications : Innsbruck, Austria, February 11-13, 2008 2008 / p. 140-145

Reversed search maximum clique algorithm based on recoloring

Kumlander, Deniss; Porošin, Aleksandr WCGO 2019: Optimization of Complex Systems: Theory, Models, Algorithms and Applications 2020 / p. 458-467 https://doi.org/10.1007/978-3-030-21803-4_46 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Self-organized teams : a contradictory technique to motivate personnel

Kumlander, Deniss Innovations and advances in computing, informatics, systems sciences, networking and engineering 2015 / p. 379-383 https://doi.org/10.1007/978-3-319-06773-5_51 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Semi- and fully self-organised teams

Kumlander, Deniss Advanced techniques in computing sciences and software engineering 2010 / p. 257-261
<https://ui.adsabs.harvard.edu/abs/2010atcs.book..257K/abstract>

Semi-agile approach to software development process

Kumlander, Deniss Innovations and advances in computer, information, systems sciences, and engineering 2013 / p. 801-809
https://doi.org/10.1007/978-1-4614-3535-8_67 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Semi-agile Approach to Software Development Process [Electronic resource]

Kumlander, Deniss CISSE 2011 International joint conferences 2011 / [5 p.] [CD-ROM]

Software design by uncertain requirements

Kumlander, Deniss Proceedings of the IASTED International Conference on Software Engineering 2006 / p. 224-229
https://www.researchgate.net/publication/220901409_Software_Design_By_Uncertain_Requirements

Some practical algorithms to solve the maximum clique problem

Kumlander, Deniss 2005 https://www.ester.ee/record=b2097511*est

Some practical payments clearance algorithms

Kumlander, Deniss Advanced techniques in computing sciences and software engineering 2010 / p. 307-312 : ill
https://link.springer.com/chapter/10.1007/978-90-481-3660-5_52

Supporting software engineering

Kumlander, Deniss WSEAS transactions on business and economics 2006 / 4, p. 296-303

The uncertainties management framework : eliminating uncertainties from the process

Kumlander, Deniss Information system development : improving enterprise communication 2014 / p. 473-485

Towards a better infrastructure supporting the e-education as a state public service

Kumlander, Deniss New trends in networking, computing, e-learning, systems sciences, and engineering 2015 / p. 309-315
https://doi.org/10.1007/978-3-319-06764-3_38 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Towards a new paradigm of software development: an ambassador driven process in distributed software companies

Kumlander, Deniss Advanced techniques in computing sciences and software engineering 2010 / p. 487-490
https://link.springer.com/chapter/10.1007/978-90-481-3660-5_84

Towards dependable software : researching work-flow gaps in the distributed organisation

Kumlander, Deniss Proceedings of the 7th WSEAS International Conference on Applied Informatics and Communication : Vouliagmeni, Athens, Greece, August 24-26, 2007 2007 / p. 208-212 <https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=ea1ae0f0100c0d2aeae7ddf7a69e35b5947b2e55>

Uncertainties management framework - foundational principles

Kumlander, Deniss ICEIS 2009 : proceedings of the 11th International Conference on Enterprise Information Systems : Milan, Italy, May 6-10, 2009 : Volume ISAS 2009 / p. 103-108 <https://www.scitepress.org/Papers/2009/19714/19714.pdf>

Uncertainty management framework elements – test based verification of the process

Kumlander, Deniss Advances in computer science : proceedings of the 6th WSEAS European Computing Conference (ECC'12) : Prague, Czech Republic, September 24-26, 2012 2012 / p. 517-521

Using clinical decision support software in health insurance company

Konovalov, R.; **Kumlander, Deniss** Advanced techniques in computing sciences and software engineering 2010 / p. 223-226 : ill