CP Papers on Car Sequencing

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1 Introduction

This document shows the result of a survey on "Constraint Programming and Scheduling", which tries to find and classify all publications on the combination of these two concepts. It is based on a manually collected bibfile containing reference to relevant papers and articles, and on an automatic and manual analysis of local copies of the cited papers. For copyright reasons, we are obviously not able to distribute the collected copies, but we provide links to the original sources of the files.

We identify the papers by a key which is the last name of the first author, the first character of the last names of all other authors, and a two digit year code for the date of publication. If multiple works would define the same key, we differentiate by adding a suffix "a", "b", etc, to the second and subsequent works found.

Most of the content of this document is generated by a Java program that parses the bib files, adds any manually extracted information, and which then extracts concept occurrences from the local copies of the works. It then produces tables and other LaTeX artifacts that are included in a manually defined top-level document.

To add new works, first add bibtex entries for each work in the main overview/bib.bib file, then add local copies of the pdf of the work to the overview/works/directory, using the key of the bibtex entry as the file name (plus extension .pdf), and then run the main Java program org.insightcentre.pthg24.JfxApp to consolidate the information and extract the relevant concepts. Finally, run pdflatex on the overview/scheduling.tex file to produce this pdf document. Manually extracted information for the files can be added in the imports/manual.csv file. New concepts can be added in the file imports/concepts.json, new concept types need to be directly defined in the Java code.

We start the document by providing a table of all defined keys in the bib file in alphabetical order. This table can be helpful to see if a candidate paper is already in the survey, it suffices to see if the key is already present, and matches the authors, title and origin of the candidate paper. In the table link given by the key points to the local copy of the file, while the citation number links to the bibliography entry. That entry typically also contains a link to the original source of the paper.

This document heavily depends on the use of hyper links in the document, it has been tested with Acrobat Reader, other pdf reader may not use links in the same way.

Table 1: Key Overview (Total: 29)

1	2	3	4	5	6
ArtiguesHM0W14 [1]	BoysenFS09 [2]	ButaruH05 [3]	DincbasSH88 [4]	Gent98 [5]	GolleRB14 [6]
GottliebPS03 [7]	HindiP94 [8]	HoevePRS06 [23]	HoevePRS09 [24]	Kis04 [9]	Mayer-EichbergerW13 [10]
MazurN15 [11]	MoyaCB19 [12]	OzturkTHO13 [13]	ParrelloK86 [14]	PerronS04 [15]	ReginP97 [16]
Schaus09 [17]	Siala15 [18]	SialaHH14 [19]	SialaHH155 [20]	SolnonCNA08 [21]	ThiruvadyME11 [22]
WarwickT95 [25]	WinterM21 $[26]$	YavuzE18 [27]	YuLZCLW22 [28]	ZhangGWH17 [29]	

2 Conference Paper List

This section presents the information for all conference papers included in the survey. For space reasons, not all information about the papers can be presented in a single table, we therefore split the data into three parts. The first part contains the main bibliographical information for the paper. The paper are sorted by year of publication (newest first), and then alphabetically by key.

The key contains a hyperlink to the original source URL of the paper. You may have to navigate manually to download the actual paper content, and you may be unable to access the paper completely if it is behind a paywall for which you (or your organization) do not have access.

We then list the authors of the paper, in the other given in the bibtex file, abbreviating first names for space where we can identify them. Note that names with non-latin characters are not handled by latex. We use the form that is given in the bibtex file, but have excluded entries that cause latex to fail.

We then give the title of the publication, using the original capitalization of the title entry in the bibliography. We then (column LC) provide a link to a local copy, if it is present, and a link to the bibliography entry of the paper. We also show the year of publication, and the conference where the paper was published, using a short form abbreviation of the conference. This relies on a matching routine in the Java code to find the short title, new conference series may require an additional entry in ImportBibtex.java to work properly. Finally we list the number of pages of the paper, this information is using the bibtex entry where possible, otherwise uses pdfinfo to extract the actual number of pages from the local copy. The final columns b and c provide links to the corresponding tables of extracted concepts and manual information. Note that the links to typically show the correct page, not do not necessarily scroll to the correct line in the table.

2.1 Papers from bibtex

Table 2: Works from bibtex (Total 9)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	$\frac{Nr}{Refs}$	b	c
ArtiguesHM0W14 ArtiguesHM0W14	C. Artigues, E. Hebrard, V. Mayer-Eichberger, M. Siala, T. Walsh	SAT and Hybrid Models of the Car Sequencing Problem	Yes	[1]	2014	CPAIOR 2014	16	2	16	10	18
Mayer-EichbergerW13 Mayer-EichbergerW13	V. Mayer-Eichberger, T. Walsh	SAT Encodings for the Car Sequencing Problem	Yes	[10]	2013	SAT 2013	13	0	0	15	19
ThiruvadyME11 ThiruvadyME11	Dhananjay Raghavan Thiruvady, B. Meyer, A. Ernst	Car sequencing with constraint-based ACO	No	[22]	2011	Genetic and evolutionary computation 2011	8	0	0	No	20
HoevePRS06 HoevePRS06	Willem Jan van Hoeve, G. Pesant, L. Rousseau, A. Sabharwal	Revisiting the Sequence Constraint	Yes	[23]	2006	CP 2006	15	33	7	14	21
ButaruH05 ButaruH05	M. Butaru, Z. Habbas	The car-sequencing problem as n-ary CSP-Sequential and parallel solving	Yes	[3]	2005	Australian Joint Conference on Ar- tificial Intelligence 2005	4	0	0	11	22
PerronS04 PerronS04	L. Perron, P. Shaw	Combining Forces to Solve the Car Sequencing Problem	Yes	[15]	2004	CPAIOR 2004	15	17	9	16	23
GottliebPS03 GottliebPS03	J. Gottlieb, M. Puchta, C. Solnon	A Study of Greedy, Local Search, and Ant Colony Optimization Approaches for Car Sequencing Problems	Yes	[7]	2003	EvoWorkshop 2003	12	46	5	13	24
ReginP97 ReginP97	J. Régin, J. Puget	A Filtering Algorithm for Global Sequencing Constraints	Yes	[16]	1997	CP 1997	15	53	3	17	25
DincbasSH88 DincbasSH88	M. Dincbas, H. Simonis, Pascal Van Hentenryck	Solving the Car-Sequencing Problem in Constraint Logic Programming	Yes	[4]	1988	ECAI 1988	6	0	0	12	26

2.2 Extracted Concepts

Table 3: Automatically Extracted PAPER Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas Indus	tries Benchmarks	Algorithm	a	с
ArtiguesHM0W14 [1]	16	activity, lazy clause generation, order		cumulative, Cardinality con- straint, Among constraint		Mistral		github, CSPlib, Roadef, bench- mark		1	18
ButaruH05 [3]	4	task, order, job-shop, machine, job			C++	Ilog Solver		CSPlib		5	22
DincbasSH88 [4]	6	distributed, job, job-shop, machine, order, precedence, resource, scheduling, task		Disjunctive constraint, circuit, disjunctive	Prolog	CHIP, OPL		real-life		9	26
GottliebPS03 [7]	12	order, scheduling, machine		cycle				real-world, benchmark, CSPlib		7	24
HoevePRS06 [23]	15	order, transportation		Cardinality constraint, Regular con- straint, Among constraint		CHIP, Ilog Solver	nurse	real-life		4	21
Mayer- EichbergerW13 [10]	13	scheduling, task		Atmost con- straint, Car- dinality con- straint, cumula- tive				CSPlib, benchmark, github		2	19
PerronS04 [15]	15	scheduling, job-shop, order, resource, job				OZ, Ilog Scheduler		generated in- stance		6	23
ReginP97 [16]	15	resource, machine, order, scheduling		cumulative, Cardinality constraint		Ilog Sched- uler, Ilog Solver, CHIP	automotive, crew- scheduling	random instance, benchmark, real-life	time- tabling, edge-finder	8	25

2.3 Manually Defined Fields

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
ArtiguesHM0W14 ArtiguesHM0W14 [1]	SAT and Hybrid Models of the Car Sequencing Problem		github, CSPlib, Roadef, bench- mark	0							1	10
Mayer-EichbergerW13 Mayer- EichbergerW13 [10]	SAT Encodings for the Car Sequencing Problem		CSPlib, bench- mark, github	0							2	15
ThiruvadyME11 ThiruvadyME11 [22]	Car sequencing with constraint-based ACO			0							3	No
HoevePRS06 HoevePRS06 [23]	Revisiting the Sequence Constraint		real-life	0							4	14
ButaruH05 ButaruH05 [3]	The car-sequencing problem as n-ary CSP-Sequential and parallel solving		CSPlib	0							5	11
PerronS04 PerronS04 [15]	Combining Forces to Solve the Car Sequencing Problem		generated in- stance	0							6	16
GottliebPS03 GottliebPS03 [7]	A Study of Greedy, Local Search, and Ant Colony Optimization Approaches for Car Sequencing Problems		real-world, benchmark, CSPlib	0							7	13
ReginP97 ReginP97 [16]	A Filtering Algorithm for Global Sequencing Constraints		random in- stance, bench- mark, real-life	0							8	17
DincbasSH88 DincbasSH88 [4]	Solving the Car-Sequencing Problem in Constraint Logic Programming		real-life	0							9	12

3 Journal Articles

3.1 Articles from bibtex

Table 5: Works from bibtex (Total 19)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	$\frac{Nr}{Cites}$	$\begin{array}{c} Nr \\ Refs \end{array}$	b	c
YuLZCLW22 YuLZCLW22	Y. Yu, X. Lu, T. Zhao, M. Cheng, L. Liu, W. Wei	Heuristic approaches for the car sequencing problems with block batches	No	[28]	2022	EURASIP Journal on Wireless Com- munications and Networking	null	2	37	No	48
WinterM21 WinterM21	F. Winter, N. Musliu	Constraint-based Scheduling for Paint Shops in the Automotive Supply Industry	No	[26]	2021	ACM Transactions on Intelligent Sys- tems and Technol- ogy (TIST)	25	0	0	No	49
MoyaCB19 MoyaCB19	I. Moya, M. Chica, J. Bautista	Constructive metaheuristics for solving the Car Sequencing Problem under uncertain partial demand	No	[12]	2019	Computers Indus- trial Engineering	1	8	44	No	50
YavuzE18 YavuzE18	M. Yavuz, H. Ergin	Advanced constraint propagation for the combined car sequencing and level scheduling problem	No	[27]	2018	Computers Opera- tions Research	12	0	0	No	51
ZhangGWH17 ZhangGWH17	X. ZHANG, L. GAO, L. WEN, Z. HUANG	Parallel Construction Heuristic Combined with Constraint Propagation for the Car Sequencing Problem	No	[29]	2017	Chinese Journal of Mechanical Engi- neering	null	3	32	No	52
MazurN15 MazurN15	M. Mazur, A. Niederliński	A Two-stage approach for an optimum solution of the car assembly scheduling problem. Part 2. CLP solution and real-world example	No	[11]	2015	Archives of Control Sciences	9	0	0	No	53
SialaHH155 SialaHH155	M. Siala, E. Hebrard, M. Huguet	A study of constraint programming heuristics for the car-sequencing problem	No	[20]	2015	Eng. Appl. Artif. Intell.	11	15	10	No	54
GolleRB14 GolleRB14	U. Golle, F. Rothlauf, N. Boysen	Iterative beam search for car sequencing	No	[6]	2014	Annals of Opera- tions Research	null	15	15	No	55
SialaHH14 SialaHH14	M. Siala, E. Hebrard, M. Huguet	An optimal arc consistency algorithm for a particular case of sequence constraint	Yes	[19]	2014	Constraints An Int. J.	27	3	14	47	56
OzturkTHO13 OzturkTHO13	C. Öztürk, S. Tunali, B. Hnich, M. Arslan Ornek	Balancing and scheduling of flexible mixed model assembly lines	No	[13]	2013	Constraints An Int. J.	36	31	44	No	57
BoysenFS09 BoysenFS09	N. Boysen, M. Fliedner, A. Scholl	Sequencing mixed-model assembly lines: Survey, classification and model critique	No	[2]	2009	European Jour- nal of Operational Research	null	308	167	No	58
HoevePRS09 HoevePRS09	Willem-Jan van Hoeve, G. Pesant, L. Rousseau, A. Sabharwal	New filtering algorithms for combinations of among constraints	No	[24]	2009	Constraints An Int. J.	null	13	8	No	59
Schaus09 Schaus09	P. Schaus	Solving balancing and bin-packing problems with constraint programming	No	[17]	2009	These de doc- torat, Université catholique de Lou- vain	null	0	0	No	60
SolnonCNA08 SolnonCNA08	C. Solnon, V. Cung, A. Nguyen, C. Artigues	The car sequencing problem: Overview of state-of-the-art methods and industrial case-study of the ROADEF'2005 challenge problem	No	[21]	2008	European Jour- nal of Operational Research	16	146	22	No	61
Kis04 Kis04	T. Kis	On the complexity of the car sequencing problem	No	[9]	2004	Operations Research Letters	null	69	3	No	62
Gent98 Gent98	Ian P Gent	Two results on car-sequencing problems	No	[5]	1998	Report University of Strathclyde, APES- 02-98	null	0	0	No	63
WarwickT95 WarwickT95	T. Warwick, Edward P. K. Tsang	Tackling Car Sequencing Problems Using a Generic Genetic Algorithm	No	[25]	1995	Evolutionary Computation	null	28	0	No	64
HindiP94 HindiP94	Khalil S. Hindi, G. Ploszajski	Formulation and solution of a selection and sequencing problem in car manufacture	No	[8]	1994	Computers Indus- trial Engineering	null	24	4	No	65
ParrelloK86 ParrelloK86	Bruce D. Parrello, Waldo C. Kabat	Job-Shop Scheduling Using Automated Reasoning: A Case Study of the Car-Sequencing Problem	Yes	[14]	1986	J. Autom. Reason.	42	74	0	46	66

3.2 Extracted Concepts

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ParrelloK86 [14]	42	job-shop, machine, scheduling, job, order			Prolog	OPL	nurse		real-life		45	66
SialaHH14 [19]	27	resource, scheduling, order		AtMostSeqCard, Atmost constraint, Cardinality constraint, AmongSeq constraint, CardPath, Reg- ular constraint, MultiAtMostSe- qCard, AtMost- Seq, Among constraint		СНІР			Roadef, CSPlib, benchmark		35	56

3.3 Manually Defined Fields

Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
YuLZCLW22	Heuristic approaches for the car sequencing			0							27	No
YuLZCLW22 [28]	problems with block batches											
WinterM21	Constraint-based Scheduling for Paint Shops in			0							28	No
WinterM21 [26] MoyaCB19	the Automotive Supply Industry Constructive metaheuristics for solving the Car			0							29	No
MoyaCB19 [12]	Sequencing Problem under uncertain partial demand			0							23	NO
YavuzE18 YavuzE18 [27]	Advanced constraint propagation for the combined car sequencing and level scheduling problem			0							30	No
ZhangGWH17 ZhangGWH17 [29]	Parallel Construction Heuristic Combined with Constraint Propagation for the Car Sequencing Problem			0							31	No
MazurN15 MazurN15 [11]	A Two-stage approach for an optimum solution of the car assembly scheduling problem. Part 2. CLP solution and real-world example			0							32	No
SialaHH155 SialaHH155 [20]	A study of constraint programming heuristics for the car-sequencing problem			0							33	No
GolleRB14 GolleRB14 [6]	Iterative beam search for car sequencing			0							34	No
SialaHH14 SialaHH14 [19]	An optimal arc consistency algorithm for a particular case of sequence constraint		Roadef, CSPlib, benchmark	0							35	47
OzturkTHO13 OzturkTHO13 [13]	Balancing and scheduling of flexible mixed model assembly lines			0							36	No
BoysenFS09 BoysenFS09 [2]	Sequencing mixed-model assembly lines: Survey, classification and model critique			0							37	No
HoevePRS09 HoevePRS09 [24]	New filtering algorithms for combinations of among constraints			0							38	No
Schaus09 Schaus09 [17]	Solving balancing and bin-packing problems with constraint programming			0							39	No
SolnonCNA08 SolnonCNA08 [21]	The car sequencing problem: Overview of state-of-the-art methods and industrial case-study of the ROADEF'2005 challenge problem			0							40	No
Kis04 Kis04 [9]	On the complexity of the car sequencing problem			0							41	No
Gent98 Gent98 [5]	Two results on car-sequencing problems			0							42	No
WarwickT95 WarwickT95 [25]	Tackling Car Sequencing Problems Using a Generic Genetic Algorithm			0							43	No
HindiP94 HindiP94 [8]	Formulation and solution of a selection and sequencing problem in car manufacture			0							44	No
ParrelloK86 ParrelloK86 [14]	Job-Shop Scheduling Using Automated Reasoning: A Case Study of the Car-Sequencing Problem		real-life	0							45	46

4 Authors

Table 8: Co-Authors of Articles/Papers

-	Nr	Nr	
Author	Works	Cites	Entries
Author	WOLKS	Cites	Entries
Mohamed Siala	4	20	Siala15 [18], SialaHH155 [20], SialaHH14 [19], ArtiguesHM0W14 [1]
Emmanuel Hebrard	3	20	SialaHH155 [20], SialaHH14 [19], ArtiguesHM0W14 [1]
Christian Artigues	2	148	ArtiguesHM0W14 [1], SolnonCNA08 [21]
Nils Boysen	2	323	GolleRB14 [6], BoysenFS09 [2]
Marie-José Huguet	2	18	SialaHH155 [20], SialaHH14 [19]
Valentin Mayer-Eichberger	2	2	ArtiguesHM0W14 [1], Mayer-EichbergerW13 [10]
Gilles Pesant	2	46	HoevePRS09 [24], HoevePRS06 [23]
Ashish Sabharwal	2	46	HoevePRS09 [24], HoevePRS06 [23]
Christine Solnon	2	192	SolnonCNA08 [21], GottliebPS03 [7]
Toby Walsh	2	2	ArtiguesHM0W14 [1], Mayer-EichbergerW13 [10]
M. Arslan Ornek	1	31	OzturkTHO13 [13]
Joaquín Bautista	1	8	MoyaCB19 [12]
Mihaela Butaru	1	0	ButaruH05 [3]
Waldo C. Kabat	1	74	ParrelloK86 [14]
Minjiao Cheng	1	2	YuLZCLW22 [28]
Manuel Chica	1	8	MoyaCB19 [12]
Van-Dat Cung	1	146	SolonorNA08 [21]
Bruce D. Parrello	1	74	ParrelloK86 [14]
Mehmet Dincbas	1	0	DincbasSH88 [4]
Hüseyin Ergin	1	0	YavuzE18 [27]
Andreas Ernst	1	0	ThiruxadyME11 [22]
Malte Fliedner	1	308	BoysenFS09 [2]
	-		
Liang GAO Uli Golle	1	3	ZhangGWH17 [29]
	-	15	GolleRB14 [6]
Jens Gottlieb	1	46	GottliebPS03 [7]
Zhaodong HUANG	1	3	ZhangGWH17 [29]
Zineb Habbas	1	0	ButaruH05 [3]
Brahim Hnich	1	31	OzturkTHO13 [13]
Willem Jan van Hoeve	1	33	HoevePRS06 [23]
Tamás Kis	1	69	Kis04 [9]
Lin Liu	1	2	YuLZCLW22 [28]
Xiaochun Lu	1	2	YuLZCLW22 [28]
Michał Mazur	1	0	MazurN15 [11]
Bernd Meyer	1	0	ThiruvadyME11 [22]
Ignacio Moya	1	8	MoyaCB19 [12]
Nysret Musliu	1	0	WinterM21 [26]
Alain Nguyen	1	146	SolnonCNA08 [21]
Antoni Niederliński	1	0	MazurN15 [11]
Ian P Gent	1	0	Gent98 [5]
Edward P. K. Tsang	1	28	Warwick T95 [25]
Laurent Perron	1	17	PerronS04 [15]
Grzegorz Ploszajski	1	24	HindiP94 [8]
Markus Puchta	1	46	GottliebPS03 [7]
Jean-Francois Puget	1	53	ReginP97 [16]
Dhananjay Raghavan Thiruvady	1	0	ThiruvadyME11 [22]
Franz Rothlauf	1	15	GolleRB14 [6]
Louis-Martin Rousseau	1	13	HoevePRS09 [24]
Louis-Martin Rousseau	1	33	HoevePRS06 [23]
Jean-Charles Régin	1	53	ReginP97 [16]
Khalil S. Hindi	1	24	HindiP94 [8]
Pierre Schaus	1	0	Schaus09 [17]
1 10170 Dellado	1	U	Sommeron [21]

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	Nr	Nr	
Author	Works	Cites	Entries
Armin Scholl	1	308	BoysenFS09 [2]
Paul Shaw	1	17	PerronS04 [15]
Helmut Simonis	1	0	DincbasSH88 [4]
Semra Tunali	1	31	OzturkTHO13 [13]
Pascal Van Hentenryck	1	0	DincbasSH88 [4]
Long WEN	1	3	ZhangGWH17 [29]
Terry Warwick	1	28	WarwickT95 [25]
Wenchao Wei	1	2	YuLZCLW22 [28]
Felix Winter	1	0	WinterM21 [26]
Mesut Yavuz	1	0	YavuzE18 [27]
Yingjie Yu	1	2	YuLZCLW22 [28]
Xiangyang ZHANG	1	3	ZhangGWH17 [29]
Tao Zhao	1	2	YuLZCLW22 [28]
Willem-Jan van Hoeve	1	13	HoevePRS09 [24]
Cemalettin Öztürk	1	31	OzturkTHO13 [13]

5 Most Cited Works

Table 9: Works from bibtex (Total 29)

Key	Authors	Title	$_{ m LC}$	Cite	Year	Conference /Journal	Pages	$\frac{\mathrm{Nr}}{\mathrm{Cites}}$	$rac{ m Nr}{ m Refs}$	b	c
BoysenFS09 BoysenFS09	N. Boysen, M. Fliedner, A. Scholl	Sequencing mixed-model assembly lines: Survey, classification and model critique	No	[2]	2009	European Jour- nal of Operational Research	null	308	167	No	58
SolnonCNA08 SolnonCNA08	C. Solnon, V. Cung, A. Nguyen, C. Artigues	The car sequencing problem: Overview of state-of-the-art methods and industrial case-study of the ROADEF'2005 challenge problem	No	[21]	2008	European Jour- nal of Operational Research	16	146	22	No	61
ParrelloK86 ParrelloK86	Bruce D. Parrello, Waldo C. Kabat	Job-Shop Scheduling Using Automated Reasoning: A Case Study of the Car-Sequencing Problem	Yes	[14]	1986	J. Autom. Reason.	42	74	0	46	66
Kis04 Kis04	T. Kis	On the complexity of the car sequencing problem	No	[9]	2004	Operations Research Letters	null	69	3	No	62
ReginP97 ReginP97	J. Régin, J. Puget	A Filtering Algorithm for Global Sequencing Constraints	Yes	[16]	1997	CP 1997	15	53	3	17	25
GottliebPS03 GottliebPS03	J. Gottlieb, M. Puchta, C. Solnon	A Study of Greedy, Local Search, and Ant Colony Optimization Approaches for Car Sequencing Problems	Yes	[7]	2003	EvoWorkshop 2003	12	46	5	13	24
HoevePRS06 HoevePRS06	Willem Jan van Hoeve, G. Pesant, L. Rousseau, A. Sabharwal	Revisiting the Sequence Constraint	Yes	[23]	2006	CP 2006	15	33	7	14	21
OzturkTHO13 OzturkTHO13	C. Öztürk, S. Tunali, B. Hnich, M. Arslan Ornek	Balancing and scheduling of flexible mixed model assembly lines	No	[13]	2013	Constraints An Int. J.	36	31	44	No	57
WarwickT95 WarwickT95	T. Warwick, Edward P. K. Tsang	Tackling Car Sequencing Problems Using a Generic Genetic Algorithm	No	[25]	1995	Evolutionary Computation	null	28	0	No	64
HindiP94 HindiP94	Khalil S. Hindi, G. Ploszajski	Formulation and solution of a selection and sequencing problem in car manufacture	No	[8]	1994	Computers Indus- trial Engineering	null	24	4	No	65
PerronS04 PerronS04	L. Perron, P. Shaw	Combining Forces to Solve the Car Sequencing Problem	Yes	[15]	2004	CPAIOR 2004	15	17	9	16	23
SialaHH155 SialaHH155	M. Siala, E. Hebrard, M. Huguet	A study of constraint programming heuristics for the car-sequencing problem	No	[20]	2015	Eng. Appl. Artif. Intell.	11	15	10	No	54
GolleRB14 GolleRB14	U. Golle, F. Rothlauf, N. Boysen	Iterative beam search for car sequencing	No	[6]	2014	Annals of Operations Research	null	15	15	No	55
HoevePRS09 HoevePRS09	Willem-Jan van Hoeve, G. Pesant, L. Rousseau, A. Sabharwal	New filtering algorithms for combinations of among constraints	No	[24]	2009	Constraints An Int. J.	null	13	8	No	59
MoyaCB19 MoyaCB19	I. Moya, M. Chica, J. Bautista	Constructive metaheuristics for solving the Car Sequencing Problem under uncertain partial demand	No	[12]	2019	Computers Indus- trial Engineering	1	8	44	No	50
SialaHH14 SialaHH14	M. Siala, E. Hebrard, M. Huguet	An optimal arc consistency algorithm for a particular case of sequence constraint	Yes	[19]	2014	Constraints An Int. J.	27	3	14	47	56
ZhangGWH17 ZhangGWH17	X. ZHANG, L. GAO, L. WEN, Z. HUANG	Parallel Construction Heuristic Combined with Constraint Propagation for the Car Sequencing Problem	No	[29]	2017	Chinese Journal of Mechanical Engi- neering	null	3	32	No	52
ArtiguesHM0W14 ArtiguesHM0W14	C. Artigues, E. Hebrard, V. Mayer-Eichberger, M. Siala, T. Walsh	SAT and Hybrid Models of the Car Sequencing Problem	Yes	[1]	2014	CPAIOR 2014	16	2	16	10	18
YuLZCLW22 YuLZCLW22	Y. Yu, X. Lu, T. Zhao, M. Cheng, L. Liu, W. Wei	Heuristic approaches for the car sequencing problems with block batches	No	[28]	2022	EURASIP Journal on Wireless Com- munications and Networking	null	2	37	No	48
DincbasSH88 DincbasSH88	M. Dincbas, H. Simonis, Pascal Van Hentenryck	Solving the Car-Sequencing Problem in Constraint Logic Programming	Yes	[4]	1988	ECAI 1988	6	0	0	12	26
Siala15 Siala15	M. Siala	Search, propagation, and learning in sequencing and scheduling problems. (Recherche, propagation et apprentissage dans les problèmes de séquencement et d'ordonnancement)	Yes	[18]	2015	INSA Toulouse, France	200	0	0	134	n/a

Table 9: Works from bibtex (Total 29)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	$\begin{array}{c} {\rm Nr} \\ {\rm Cites} \end{array}$	$rac{ m Nr}{ m Refs}$	b	с
Gent98 Gent98	Ian P Gent	Two results on car-sequencing problems	No	[5]	1998	Report University of Strathclyde, APES- 02-98	null	0	0	No	63
Schaus09 Schaus09	P. Schaus	Solving balancing and bin-packing problems with constraint programming	No	[17]	2009	These de doc- torat, Université catholique de Lou- vain	null	0	0	No	60
YavuzE18 YavuzE18	M. Yavuz, H. Ergin	Advanced constraint propagation for the combined car sequencing and level scheduling problem	No	[27]	2018	Computers Opera- tions Research	12	0	0	No	51
WinterM21 WinterM21	F. Winter, N. Musliu	Constraint-based Scheduling for Paint Shops in the Automotive Supply Industry	No	[26]	2021	ACM Transactions on Intelligent Sys- tems and Technol- ogy (TIST)	25	0	0	No	49
ThiruvadyME11 ThiruvadyME11	Dhananjay Raghavan Thiruvady, B. Meyer, A. Ernst	Car sequencing with constraint-based ACO	No	[22]	2011	Genetic and evolutionary computation 2011	8	0	0	No	20
ButaruH05 ButaruH05	M. Butaru, Z. Habbas	The car-sequencing problem as n-ary CSP–Sequential and parallel solving	Yes	[3]	2005	Australian Joint Conference on Ar- tificial Intelligence 2005	4	0	0	11	22
MazurN15 MazurN15	M. Mazur, A. Niederliński	A Two-stage approach for an optimum solution of the car assembly scheduling problem. Part 2. CLP solution and real-world example	No	[11]	2015	Archives of Control Sciences	9	0	0	No	53
Mayer-EichbergerW13 Mayer-EichbergerW13	V. Mayer-Eichberger, T. Walsh	SAT Encodings for the Car Sequencing Problem	Yes	[10]	2013	SAT 2013	13	0	0	15	19

6 Problem Classification

7 Concept Matching

In order to automatically find out properties of the articles, we try to find certain concepts in the pdf versions of the articles. We manually defined an ontology of important concepts to look for, and defined regular expressions that would recognize these concepts in the text. We use the *pdfgrep* command to search for the number of occurrences of certain regular expressions in the files. This often clearly identifies the constraints used in the model. We group the results by number of occurrences of the concept in the text of the work. Note that this is only approximate, as we do include the full pdf file in the search. A concept might only be mentioned in some of the title of citations used in the paper, we do count them in our results, as we were not able to remove the bibliography from the main body of the work.

Overall, if a work is not mentioned as using the concept, the the text does not contain a match to the corresponding regular expression. A fundamental limitation of this approach is that it only really works for text written in the language the regular expressions are designed for (in our case English), and not those written in another language. We could overcome this limitation by defining all concepts in other languages as well, and then using a language flag to identify the language the text is written in.

Note that we only show the first 30 matching entries in each concept category, and list the total number of matches if there are more than 30 matches.

7.1 Concept Type Concepts

Table 10: Works for Concepts of Type Concepts

Туре	Keyword	High	Medium	Low
Concepts	Allen's algebra			
Concepts	BOM			
Concepts	Benders Decomposition			
Concepts	Logic-Based Benders Decomposition			
Concepts	activity	Siala15 [18]		ArtiguesHM0W14 [1]
Concepts	batch process			
Concepts	bill of material			
Concepts	blocking constraint			
Concepts	buffer-capacity			
Concepts	cmax	Siala15 [18]		
Concepts	completion-time			
Concepts	continuous-process			Di i gua fil
Concepts	distributed			DincbasSH88 [4]
Concepts	due-date			Siala15 [18]
Concepts	earliness			Siala15 [18]
Concepts	flow-shop			
Concepts Concepts	flow-time			
Concepts	inventory job	Siala15 [18], ParrelloK86 [14]	PerronS04 [15]	ButaruH05 [3], DincbasSH88 [4]
Concepts	job-shop	Siala15 [18], ParrelloK86 [14]	PerronS04 [15]	ButaruH05 [3], DincbasSH88 [4]
Concepts	lateness	Siaiais [16], i aireiloicoo [14]	1 611011504 [15]	Dutarunoo [5], Diiicbassinoo [4]
Concepts	lazy clause generation	Siala15 [18]		ArtiguesHM0W14 [1]
Concepts	machine	Siala15 [18]		ButaruH05 [3], GottliebPS03 [7], ReginP97 [16], DincbasSH88 [4], ParrelloK86 [14]
Concepts	make to order			
Concepts	make to stock			
Concepts	make-span	Siala15 [18]		
Concepts	manpower	,		
Concepts	multi-agent			
Concepts	no preempt			
Concepts	no-wait			
Concepts	open-shop	Siala15 [18]		
Concepts	order	Siala15 [18], SialaHH14 [19], HoevePRS06 [23], ButaruH05 [3], PerronS04 [15], GottliebPS03 [7], ReginP97 [16], DincbasSH88 [4], ParrelloK86 [14]	ArtiguesHM0W14 [1]	
Concepts	precedence	Siala15 [18], DincbasSH88 [4]		
Concepts	preempt			
Concepts	producer/consumer			
Concepts	re-scheduling			
Concepts	release-date			
Concepts	resource	Siala15 [18]	DincbasSH88 [4]	SialaHH14 [19], PerronS04 [15], ReginP97 [16]
Concepts	scheduling	Siala15 [18], DincbasSH88 [4], ParrelloK86 [14]	PerronS04 [15], ReginP97 [16]	SialaHH14 [19], Mayer-EichbergerW13 [10], GottliebPS03 [7]
Concepts	sequence dependent setup			Siala15 [18]
Concepts	setup-time			Siala15 [18]
Concepts	stock level			
Concepts	tardiness			Siala15 [18]
Concepts	task	Siala15 [18], DincbasSH88 [4]		Mayer-EichbergerW13 [10], ButaruH05 [3]
Concepts	temporal constraint rea-			
	soning			

Table 10: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	transportation			HoevePRS06 [23]

7.2 Concept Type Classification

Table 11: Works for Concepts of Type Classification

Type	Keyword	High	Medium	Low
Classification	2BPHFSP			
Classification	BPCTOP			
Classification	Bulk Port Cargo			
	Throughput Optimi-			
	sation Problem			
Classification	CECSP			
Classification	CHSP			
Classification	CTW			
Classification	CuSP			
Classification	EOSP			
Classification	Earth Observation			
	Scheduling Problem			
Classification	FJS			
Classification	Fixed Job Scheduling			
Classification	GCSP			
Classification	HFF			
Classification	HFFTT			
Classification	HFS			
Classification	JSPT			
Classification	JSSP			
Classification	KRFP			
Classification	LSFRP			
Classification	Liner Shipping Fleet			
	Repositioning Problem			
Classification	MGAP			
Classification	Modified Generalized			
	Assignment Problem			
Classification	OSP	Siala15 [18]		
Classification	OSSP			
Classification	Open Shop Scheduling			
	Problem			
Classification	PJSSP			
Classification	PMSP			
Classification	PP-MS-MMRCPSP			
Classification	PTC			
Classification	Pre-emptive Job-Shop			
	scheduling Problem			
Classification	RCMPSP			Q1 1 45 [40]
Classification	RCPSP			Siala15 [18]
Classification	RCPSPDC			
Classification	Resource-constrained			
	Project Scheduling			
	Problem with Dis-			
Clarate 11	counted Cashflow			
Classification	SBSFMMAL			
Classification	SCC			
Classification	SMSDP			
Classification	Steel-making and con-			
Classification	tinuous casting TCSP			
Classification Classification	TMS			Siala15 [18]
Classification	11/10			DIGIGITO [10]

Table 11: Works for Concepts of Type Classification

Type	Keyword	High	Medium	Low	
Classification	Temporal Constraint Satisfaction Problem				
Classification	parallel machine				
Classification	psplib				
Classification	single machine			Siala15 [18]	

7.3 Concept Type Constraints

Table 12: Works for Concepts of Type Constraints

Туре	Keyword	High	Medium	Low
Constraints	AllDiff constraint			
Constraints	AllDiffPrec constraint			
Constraints	AlwaysConstant			
Constraints	Among constraint	Siala15 [18], SialaHH14 [19], HoevePRS06 [23]		ArtiguesHM0W14 [1]
Constraints	AmongSeq constraint		Siala15 [18], SialaHH14 [19]	
Constraints	Arithmetic constraint			
Constraints	AtMostSeq	Siala15 [18], SialaHH14 [19]		
Constraints	AtMostSeqCard	Siala15 [18], SialaHH14 [19]		
Constraints	Atmost constraint	Siala15 [18], SialaHH14 [19]		Mayer-EichbergerW13 [10]
Constraints	Balance constraint			Siala15 [18]
Constraints	BinPacking constraint			
Constraints	Blocking constraint			
Constraints	BufferedResource			
Constraints	Calendar constraint			
Constraints	CardPath			Siala15 [18], SialaHH14 [19]
Constraints	Cardinality constraint	Siala15 [18], SialaHH14 [19],	HoevePRS06 [23]	t 1/
	.,	ArtiguesHM0W14 [1], Mayer-EichbergerW13 [10], ReginP97 [16]		
Constraints	Channeling constraint			
Constraints	CumulativeCost			
Constraints	Cumulatives constraint			
Constraints	Diff2 constraint			
Constraints	Disjunctive constraint	DincbasSH88 [4]	Siala15 [18]	
Constraints	Element constraint			
Constraints	GCC constraint			Siala15 [18]
Constraints	GeneralizedAllDiffPrec			8-8-8-9 [-0]
Constraints	IloAlternative			
Constraints	IloAlwaysIn			
Constraints	IloForbidEnd			
Constraints	IloNoOverlap			
Constraints	IloPack			
Constraints	IloPulse			
Constraints	MinWeightAllDiff			
Constraints	MultiAtMostSeqCard	Siala15 [18]	SialaHH14 [19]	
Constraints	PreemptiveNoOverlap	Sidiato [10]	Statatitit4 [13]	
Constraints	Pulse constraint			
Constraints	Regular constraint	Siala15 [18], SialaHH14 [19]	HoevePRS06 [23]	
Constraints	Reified constraint	Siaia19 [10], Siaia111114 [19]	110ever 10500 [25]	Siala15 [18]
Constraints	RelSoftCumulative			Siaiai3 [16]
Constraints	RelSoftCumulativeSum			
Constraints	SoftCumulative			
	SoftCumulativeSum			
Constraints				
Constraints	TaskIntersection con- straint			
Constraints	UTVPI constraint			
Constraints	WeightAllDiff			
Constraints	WeightedSum			
Constraints	WeightedTaskSum			
Constraints	alldifferent	Siala15 [18]		
Constraints	alternative constraint			
Constraints	alwaysEqual constraint			
Constraints	alwaysIn			

Table 12: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	bin-packing			
Constraints	circuit		Siala15 [18], DincbasSH88 [4]	
Constraints	cumulative		ArtiguesHM0W14 [1], Mayer-EichbergerW13 [10]	Siala15 [18], ReginP97 [16]
Constraints	cycle	GottliebPS03 [7]	Siala15 [18]	
Constraints	diffn	. ,	` '	
Constraints	disjunctive	Siala15 [18], DincbasSH88 [4]		
Constraints	endBeforeStart			
Constraints	geost			
Constraints	noOverlap			
Constraints	regular expression			
Constraints	span constraint			
Constraints	table constraint			Siala15 [18]

7.4 Concept Type ProgLanguages

Table 13: Works for Concepts of Type ProgLanguages

Type	Keyword	High	Medium	Low
ProgLanguages	C			
ProgLanguages	C++			ButaruH05 [3]
ProgLanguages	Java			
ProgLanguages	Julia			
ProgLanguages	Lisp			
ProgLanguages	Prolog	DincbasSH88 [4], ParrelloK86 [14]		
ProgLanguages	Python			

7.5 Concept Type CPSystems

Table 14: Works for Concepts of Type CPSystems

Type	Keyword	High	Medium	Low
CPSystems	CHIP	DincbasSH88 [4]		Siala15 [18], SialaHH14 [19], HoevePRS06 [23], ReginP97 [16]
CPSystems	CPO	• •		
CPSystems	Choco Solver			
CPSystems	Chuffed			
CPSystems	Claire	Siala15 [18]		
CPSystems	Cplex			
CPSystems	ECLiPSe			
CPSystems	Gecode			
CPSystems	Gurobi			
CPSystems	Ilog Scheduler			PerronS04 [15], ReginP97 [16]
CPSystems	Ilog Solver		ReginP97 [16]	Siala15 [18], HoevePRS06 [23], ButaruH05 [3]
CPSystems	MiniZinc			
CPSystems	Mistral	Siala15 [18]	ArtiguesHM0W14 [1]	
CPSystems	OPL			Siala15 [18], DincbasSH88 [4], ParrelloK86 [14]
CPSystems	OR-Tools			
CPSystems	OZ			PerronS04 [15]
CPSystems	SCIP			
CPSystems	SICStus			
CPSystems	Z3			

7.6 Concept Type ApplicationAreas

Table 15: Works for Concepts of Type ApplicationAreas

Туре	Keyword	High	Medium	Low
ApplicationAreas	COVID			
ApplicationAreas	HVAC			
ApplicationAreas	agriculture			
Application Areas	aircraft			
Application Areas	automotive			Siala15 [18], ReginP97 [16]
Application Areas	cable tree			
Application Areas	car manufacturing			
Application Areas	container terminal			
Application Areas	crew-scheduling			ReginP97 [16]
ApplicationAreas	dairies			
ApplicationAreas	dairy			
ApplicationAreas	datacenter			
ApplicationAreas	datacentre			
ApplicationAreas	day-ahead market			
ApplicationAreas	deep space			
Application Areas	drone			
Application Areas	earth observation			
Application Areas	earth orbit			
Application Areas	electroplating			
ApplicationAreas ApplicationAreas	emergency service			
ApplicationAreas ApplicationAreas	energy-price			
ApplicationAreas ApplicationAreas	farming			
ApplicationAreas ApplicationAreas	forestry			
ApplicationAreas ApplicationAreas	hoist			
ApplicationAreas ApplicationAreas	medical			
ApplicationAreas ApplicationAreas	nurse			HoevePRS06 [23], ParrelloK86 [14]
ApplicationAreas ApplicationAreas	offshore			110ever 10500 [25], 1 arrenoix60 [14]
ApplicationAreas ApplicationAreas	operating room			
ApplicationAreas ApplicationAreas	oven scheduling			
ApplicationAreas ApplicationAreas	patient			
ApplicationAreas	perfect-square			
ApplicationAreas ApplicationAreas	physician			
ApplicationAreas ApplicationAreas	pipeline			
ApplicationAreas	radiation therapy			
ApplicationAreas ApplicationAreas	radiation therapy			
ApplicationAreas ApplicationAreas	real-time pricing			
ApplicationAreas ApplicationAreas	rectangle-packing			Siala15 [18]
ApplicationAreas ApplicationAreas	robot			Digital [10]
ApplicationAreas ApplicationAreas	satellite			
ApplicationAreas ApplicationAreas	satellite semiconductor			
ApplicationAreas ApplicationAreas	ship building			
ApplicationAreas ApplicationAreas	shipping line steel cable			
ApplicationAreas ApplicationAreas	steel cable steel mill			
ApplicationAreas ApplicationAreas				
	super-computer			
ApplicationAreas	surgery			
ApplicationAreas	torpedo			
ApplicationAreas	vaccine			
ApplicationAreas	yard crane			

7.7 Concept Type Industries

Table 16: Works for Concepts of Type Industries

Type	Keyword	High	Medium	Low
Industries	IT industry			
Industries	PCB industry			
Industries	aerospace industry			
Industries	agricultural industry			
Industries	agrifood industry			
Industries	airline industry			
Industries	automobile industry			
Industries	automotive industry			
Industries	aviation industry			
Industries	cable industry			
Industries	carpet industry			
Industries	chemical industry			
Industries	chemical processing in-			
	dustry			
Industries	chemistry industry			
Industries	chips industry			
Industries	circuit boards industry			
Industries	control system industry			
Industries	cutting industry			
Industries	dairy industry			
Industries	dismantling industry			
Industries	drawing industry			
Industries	electricity industry			
Industries	electricity industry			
Industries	electronics industry			
Industries	electroplating industry			
Industries	energy industry			
Industries	fashion industry			
Industries	food industry			
Industries	food-processing industry			
Industries	forest industry			
Industries	forging industry			
Industries	foundry industry			
Industries	garment industry			
Industries	gas industry			
Industries	glass industry			
Industries	heavy industry			
Industries	insulation industry			
Industries	leisure industry			
Industries	lumber industry			
Industries	manufacturing industry			
Industries	maritime industry			
Industries	metal industry			
Industries	metalworking industry			
Industries	mineral industry			
Industries	mining industry			
Industries	nuclear industry			
Industries	oil industry			
Industries	packaging industry			
Industries	painting industry			
Industries	paper industry			
Industries	petro-chemical industry			

Table 16: Works for Concepts of Type Industries

Type	Keyword	High	Medium	Low	
Industries	pharmaceutical industry				
Industries	potash industry				
Industries	power industry				
Industries	printing industry				
Industries	process industry				
Industries	processing industry				
Industries	railway industry				
Industries	repair industry				
Industries	retail industry				
Industries	semiconductor industry				
Industries	semiprocess industry				
Industries	service industry				
Industries	ship repair industry				
Industries	shipping industry				
Industries	software industry				
Industries	solar cell industry				
Industries	steel industry				
Industries	steel making industry				
Industries	sugar industry				
Industries	taxi industry				
Industries	telecommunication				
7 1	industry				
Industries	textile industry				
Industries	tire industry				
Industries	tourism industry				
Industries	trade industry				
Industries	transportation industry				
Industries	wind industry				

7.8 Concept Type Benchmarks

Table 17: Works for Concepts of Type Benchmarks

Type	Keyword	High	Medium	Low
Benchmarks	CSPlib	Siala15 [18], ArtiguesHM0W14 [1], Mayer-EichbergerW13 [10]	SialaHH14 [19], GottliebPS03 [7]	ButaruH05 [3]
Benchmarks	Roadef	Siala15 [18]		SialaHH14 [19], ArtiguesHM0W14 [1]
Benchmarks	benchmark	Siala15 [18], SialaHH14 [19], Mayer-EichbergerW13 [10], GottliebPS03 [7]		ArtiguesHM0W14 [1], ReginP97 [16]
Benchmarks	bitbucket			
Benchmarks	generated instance			PerronS04 [15]
Benchmarks	github		Siala15 [18]	ArtiguesHM0W14 [1], Mayer-EichbergerW13 [10]
Benchmarks	gitlab			
Benchmarks	industrial instance			
Benchmarks	industrial partner			
Benchmarks	industry partner			
Benchmarks	instance generator			
Benchmarks	random instance			Siala15 [18], ReginP97 [16]
Benchmarks	real-life		DincbasSH88 [4]	HoevePRS06 [23], ReginP97 [16], ParrelloK86 [14]
Benchmarks	real-world			Siala15 [18], GottliebPS03 [7]
Benchmarks	supplementary material			
Benchmarks	zenodo			

7.9 Concept Type Algorithms

Table 18: Works for Concepts of Type Algorithms

Type	Keyword	High	Medium	Low
Algorithms	GRASP			Siala15 [18]
Algorithms	IGT			· <i>i</i>
Algorithms	NEH			
	bi-partite matching			
	edge-finder			ReginP97 [16]
	edge-finding		Siala15 [18]	
	energetic reasoning			
Algorithms				
Algorithms	time-tabling		Siala15 [18]	ReginP97 [16]

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A Papers and Articles Missing a Local Copy

This section lists all papers and articles for which we were not able to locate an electronic copy that we could download to our system. This might be because the work is behind a paywall for which we do not have access, or since the paper only exists in hardcopy, for works from the start of the period covered. As in either case we are not able to extract useful information from the work, either automatically, or manually, without the actual text itself, these gaps should be closed where possible.

Table 19: PAPER without Local Copy

Key	URL	Authors	Title	Year	Conference /Journal	Cite
ThiruvadyME11	ThiruvadyME11	Dhananjay Raghavan Thiruvady, B. Meyer, A. Ernst	Car sequencing with constraint-based ACO	2011	Genetic and evolution- ary computation 2011	[22]

Table 20: ARTICLE without Local Copy

Key	URL	Authors	Title	Year	Conference /Journal	Cite
YuLZCLW22	YuLZCLW22	Y. Yu, X. Lu, T. Zhao, M. Cheng, L. Liu, W. Wei	Heuristic approaches for the car sequencing problems with block batches	2022	EURASIP Journal on Wireless Communica- tions and Networking	[28]
WinterM21	WinterM21	F. Winter, N. Musliu	Constraint-based Scheduling for Paint Shops in the Automotive Supply Industry	2021	ACM Transactions on Intelligent Systems and Technology (TIST)	[26]
MoyaCB19	MoyaCB19	I. Moya, M. Chica, J. Bautista	Constructive metaheuristics for solving the Car Sequencing Problem under uncertain partial demand	2019	Computers Industrial Engineering	[12]
YavuzE18	YavuzE18	M. Yavuz, H. Ergin	Advanced constraint propagation for the combined car sequencing and level scheduling problem	2018	Computers Operations Research	[27]
ZhangGWH17	ZhangGWH17	X. ZHANG, L. GAO, L. WEN, Z. HUANG	Parallel Construction Heuristic Combined with Constraint Propagation for the Car Sequencing Problem	2017	Chinese Journal of Me- chanical Engineering	[29]
MazurN15	MazurN15	M. Mazur, A. Niederliński	A Two-stage approach for an optimum solution of the car assembly scheduling problem. Part 2. CLP solution and real-world example	2015	Archives of Control Sciences	[11]
SialaHH155	SialaHH155	M. Siala, E. Hebrard, M. Huguet	A study of constraint programming heuristics for the car-sequencing problem	2015	Eng. Appl. Artif. Intell.	[20]
GolleRB14	GolleRB14	U. Golle, F. Rothlauf, N. Boysen	Iterative beam search for car sequencing	2014	Annals of Operations Research	[6]
OzturkTHO13	OzturkTHO13	C. Öztürk, S. Tunali, B. Hnich, M. Arslan Ornek	Balancing and scheduling of flexible mixed model assembly lines	2013	Constraints An Int. J.	[13]
BoysenFS09	BoysenFS09	N. Boysen, M. Fliedner, A. Scholl	Sequencing mixed-model assembly lines: Survey, classification and model critique	2009	European Journal of Operational Research	[2]
HoevePRS09	HoevePRS09	Willem-Jan van Hoeve, G. Pesant, L. Rousseau, A. Sabharwal	New filtering algorithms for combinations of among constraints	2009	Constraints An Int. J.	[24]
Schaus09	Schaus09	P. Schaus	Solving balancing and bin-packing problems with constraint programming	2009	These de doctorat, Université catholique de Louvain	[17]
SolnonCNA08	SolnonCNA08	C. Solnon, V. Cung, A. Nguyen, C. Artigues	The car sequencing problem: Overview of state-of-the-art methods and industrial case-study of the ROADEF'2005 challenge problem	2008	European Journal of Operational Research	[21]
Kis04	Kis04	T. Kis	On the complexity of the car sequencing problem	2004	Operations Research Letters	[9]
Gent98	Gent98	Ian P Gent	Two results on car-sequencing problems	1998	Report University of Strathclyde, APES-02- 98	[5]
WarwickT95	WarwickT95	T. Warwick, Edward P. K. Tsang	Tackling Car Sequencing Problems Using a Generic Genetic Algorithm	1995	Evolutionary Computa- tion	[25]

Table 20: ARTICLE without Local Copy

Key	URL	Authors	Title	Year	Conference /Journal		Cite
HindiP94	HindiP94	Khalil S. Hindi, G. Ploszajski	Formulation and solution of a selection and sequencing problem in car manufacture	1994	Computers Engineering	Industrial	[8]

B Papers and Articles Without Recognized Concepts

This section lists papers and articles for which we have a pdf local copy, but where we were not able to extract any of the defined concepts. This can basically have two reasons. We either have included a paper which is not at all related to scheduling, so that none of the defined concepts occur in the paper. A more likely cause is that the pdf file is a scanned document for which optical character recognition was not run or not successful, so that the pdf consists of a series of bitmap images. In that case, pdfgrep is unable to find any text in the document, and no matches for concepts are found. It may be useful to check the pdf files to see if that is the case.

Table 21: PAPER without Concepts Conference Local Copy Authors Title Year /Journal Cite Pages Key Table 22: ARTICLE without Concepts Conference Local Authors Title Year Cite Pages Copy /Journal Key

C Unmatched Concepts

This section lists those concepts for which no matches were found. The most likely cause is a mistake in the regular expression used to find the concept, but it is also possible that some concept simply is not mentioned in any of the documents.

Table 23: Unmatched Concepts

Type	Name	CaseSensitive	Revision
Algorithms	IGT	Y	0
Algorithms	NEH	Y	0
Algorithms	bi-partite matching		0
Algorithms	energetic reasoning		0
Algorithms	max-flow		0
Algorithms	not-first		0
Algorithms	not-last		0
Algorithms	sweep		0
Benchmarks	bitbucket		0
Benchmarks	gitlab		0
Benchmarks	industrial instance		0
Benchmarks	industrial partner		0
Benchmarks	industry partner		0
Benchmarks	instance generator		0
Benchmarks	supplementary material		0
Benchmarks	zenodo		0
CPSystems	CPO		0
CPSystems	Choco Solver		0
CPSystems	Chuffed		0
CPSystems	Cplex		0
CPSystems	ECLiPSe		0
CPSystems	Gecode		0
CPSystems	Gurobi		0
CPSystems	MiniZinc		0
CPSystems	OR-Tools		0
CPSystems	SCIP	Y	0
CPSystems	SICStus	1	0
CPSystems	Z3		0
ProgLanguages	C C		0
ProgLanguages ProgLanguages	Java		0
ProgLanguages	Julia		0
ProgLanguages	Lisp		0
ProgLanguages	Python	37	0
Industries	IT industry	Y	0
Industries	PCB industry		0
Industries	aerospace industry		0
Industries	agricultural industry		0
Industries	agrifood industry		0
Industries	airline industry		0
Industries	automobile industry		0
Industries	automotive industry		0
Industries	aviation industry		0
Industries	cable industry		0
Industries	carpet industry		0
Industries	chemical industry		0
Industries	chemical processing industry		0
Industries	chemistry industry		0
Industries	chips industry		0
Industries	circuit boards industry		0

Table 23: Unmatched Concepts

Type	Name	CaseSensitive	Revision
Industries	control system industry		0
Industries	cutting industry		0
Industries	dairy industry		0
Industries	dismantling industry		0
Industries	drawing industry		0
Industries	electricity industry		0
Industries	electricity industry		0
Industries	electronics industry		0
Industries	electroplating industry		0
Industries	energy industry		0
Industries	fashion industry		0
Industries	food industry		0
Industries	food-processing industry		0
Industries	forest industry		0
Industries	forging industry		0
Industries	foundry industry		0
Industries	garment industry		0
Industries	gas industry		0
Industries	glass industry		0
Industries	heavy industry		0
Industries	insulation industry		0
Industries	leisure industry		0
Industries	lumber industry		0
Industries	manufacturing industry		0
Industries	maritime industry		0
Industries	metal industry		0
Industries	metalworking industry		0
Industries	mineral industry		0
Industries	mining industry		0
Industries	nuclear industry		0
Industries	oil industry		0
Industries	packaging industry		0
Industries			0
	painting industry		0
Industries	paper industry		
Industries	petro-chemical industry		0
Industries	pharmaceutical industry		0
Industries	potash industry		0
Industries	power industry		0
Industries	printing industry		0
Industries	process industry		0
Industries	processing industry		0
Industries	railway industry		0
Industries	repair industry		0
Industries	retail industry		0
Industries	semiconductor industry		0
Industries	semiprocess industry		0
Industries	service industry		0
Industries	ship repair industry		0
Industries	shipping industry		0
Industries	software industry		0
Industries	solar cell industry		0
Industries	steel industry		0
Industries	steel making industry		0
Industries	sugar industry		0
Industries	taxi industry		0
Industries	telecommunication industry		0

Table 23: Unmatched Concepts

Type	Name	CaseSensitive	Revision
Industries	textile industry		(
Industries	tire industry		(
Industries	tourism industry		(
Industries	trade industry		
Industries	transportation industry		(
Industries	wind industry		(
ApplicationAreas	COVID		
ApplicationAreas	HVAC		
ApplicationAreas	agriculture		
ApplicationAreas	aircraft		
ApplicationAreas	cable tree		
ApplicationAreas	car manufacturing		
ApplicationAreas	container terminal		
ApplicationAreas	dairies		
ApplicationAreas	dairy		
ApplicationAreas	datacenter		
ApplicationAreas	datacentre		
Application Areas	day-ahead market		
ApplicationAreas	deep space		
ApplicationAreas	drone		
ApplicationAreas	earth observation		
ApplicationAreas	earth orbit		
ApplicationAreas ApplicationAreas	electroplating		
ApplicationAreas ApplicationAreas	emergency service		
ApplicationAreas ApplicationAreas	emergency service energy-price		
ApplicationAreas	farming		
ApplicationAreas	forestry		
ApplicationAreas	hoist		
ApplicationAreas	medical		
ApplicationAreas	offshore		
ApplicationAreas	operating room		
ApplicationAreas	oven scheduling		
ApplicationAreas	patient		
ApplicationAreas	perfect-square		
ApplicationAreas	physician		
ApplicationAreas	pipeline		
ApplicationAreas	radiation therapy		
ApplicationAreas	railway		
ApplicationAreas	real-time pricing		
ApplicationAreas	robot		
ApplicationAreas	satellite		
ApplicationAreas	semiconductor		
ApplicationAreas	ship building		
ApplicationAreas	shipping line		
ApplicationAreas	steel cable		
ApplicationAreas	steel mill		
ApplicationAreas	super-computer		
ApplicationAreas	surgery		
ApplicationAreas	torpedo		
ApplicationAreas	vaccine		
ApplicationAreas	yard crane		
Constraints	AllDiff constraint		
Constraints	AllDiffPrec constraint		
Constraints	AlwaysConstant		
Constraints	Arithmetic constraint		
Constraints	BinPacking constraint		

Table 23: Unmatched Concepts

Type	Name	CaseSensitive	Revision
Constraints	Blocking constraint		0
Constraints	BufferedResource		0
Constraints	Calendar constraint		0
Constraints	Channeling constraint		0
Constraints	CumulativeCost		0
Constraints	Cumulatives constraint		0
Constraints	Diff2 constraint		0
Constraints	Element constraint		0
Constraints	GeneralizedAllDiffPrec		0
Constraints	IloAlternative		0
Constraints	IloAlwaysIn		0
Constraints	IloForbidEnd		0
Constraints	IloNoOverlap		0
Constraints	IloPack		0
Constraints	IloPulse		0
Constraints	MinWeightAllDiff		0
Constraints	PreemptiveNoOverlap		0
Constraints	Pulse constraint		0
Constraints	RelSoftCumulative		0
Constraints	RelSoftCumulativeSum		0
Constraints	SoftCumulative		0
Constraints	SoftCumulativeSum		0
Constraints	TaskIntersection constraint		0
Constraints	UTVPI constraint		0
Constraints	WeightAllDiff		0
Constraints	WeightedSum		0
Constraints	WeightedTaskSum		0
Constraints	alternative constraint		0
Constraints	alwaysEqual constraint		0
Constraints	alwaysIn		0
Constraints	bin-packing		0
Constraints	diffn		0
Constraints	endBeforeStart		0
Constraints	geost		0
Constraints	noOverlap		0
Constraints	regular expression		0
Constraints	span constraint		0
Classification	2BPHFSP	Y	1
Classification	BPCTOP	Y	1
Classification	Bulk Port Cargo Throughput Optimisation Problem	I	0
Classification		Y	
Classification	CECSP CHSP	Y	1
Classification		Y	1
Classification	CTW	Ý	1 0
	CuSP	Y	
Classification	EOSP	Y	1
Classification	Earth Observation Scheduling Problem	Y	0
Classification	FJS	Y	1
Classification	Fixed Job Scheduling	37	0
Classification	GCSP	Y	1
Classification	HFF	Y	1
Classification	HFFTT	Y	1
Classification	HFS	Y	1
Classification	JSPT	Y	1
Classification	JSSP	Y	1
Classification	KRFP	Y	1
Classification	LSFRP	Y	1

Table 23: Unmatched Concepts

Type	Name	CaseSensitive	Revision
Classification	Liner Shipping Fleet Repositioning Problem		0
Classification	MGAP	Y	1
Classification	Modified Generalized Assignment Problem		0
Classification	OSSP	Y	1
Classification	Open Shop Scheduling Problem		0
Classification	PJSSP	Y	1
Classification	PMSP	Y	1
Classification	PP-MS-MMRCPSP	Y	1
Classification	PTC	Y	1
Classification	Pre-emptive Job-Shop scheduling Problem		0
Classification	RCMPSP	Y	1
Classification	RCPSPDC	Ÿ	1
Classification	Resource-constrained Project Scheduling Problem with Discounted Cashflow	-	0
Classification	SBSFMMAL	Y	1
Classification	SCC	Ÿ	1
Classification	SMSDP	Ÿ	1
Classification	Steel-making and continuous casting	•	0
Classification	TCSP	Y	1
Classification	Temporal Constraint Satisfaction Problem		0
Classification	parallel machine		0
Classification	psplib		0
Concepts	Allen's algebra		0
Concepts	BOM		0
Concepts	Benders Decomposition		0
Concepts	Logic-Based Benders Decomposition		0
Concepts	batch process		0
	bill of material		0
Concepts	blocking constraint		0
			0
Concepts	buffer-capacity		
Concepts	completion-time		0
Concepts	continuous-process		0
Concepts	flow-shop		0
Concepts	flow-time		0
Concepts	inventory		0
Concepts	lateness		0
Concepts	make to order		0
Concepts	make to stock		1
Concepts	manpower		0
Concepts	multi-agent		0
Concepts	no preempt		0
Concepts	no-wait		0
Concepts	preempt		0
Concepts	producer/consumer		0
Concepts	re-scheduling		0
Concepts	release-date		0
Concepts	stock level		0
Concepts	temporal constraint reasoning		0

D Works by Author

E Other Works

E.1 Books from bibtex

Table 24: Works from bibtex (Total 0)

						Conference		Nr	Nr		
Key	Authors	Title	LC	Cite	Year	/Journal	Pages	Cites	Refs	b	с

E.2 PhDThesis from bibtex

Table 25: Works from bibtex (Total 1)

Key	Authors	Title	LC	Cite	Year	Conferer /Journa		Pages	$\frac{Nr}{Cites}$	Nr Refs	b	c
Siala15 Siala15	M. Siala	Search, propagation, and learning in sequencing and scheduling problems. (Recherche, propagation et apprentissage dans les problèmes de séquencement et d'ordonnancement)	Yes	[18]	2015	INSA France	Toulouse,	200	0	0	134	n/a

Table 26: Automatically Extracted THESIS Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Siala15 [18]	200	earliness, sequence dependent setup, setup-time, lazy clause generation, order, due-date, cmax, machine, job-shop, task, tardiness, resource, scheduling, make-span, activity, open-shop, job, precedence	single machine, TMS, RCPSP, OSP	disjunctive, alldifferent, AtMostSeq, table constraint, GCC constraint, Cardinality constraint, CardPath, circuit, Reified constraint, MultiAtMostSeqCard, AmongSeq constraint, Disjunctive constraint, Regular constraint, Regular constraint, AtmostSeqCard, Balance constraint, AtmostSeqCard, Balance constraint, Atmong constraint, cumulative, cycle		Claire, Ilog Solver, CHIP, OPL, Mistral	automotive, rectangle- packing		Roadef, real-world, ran-dom instance, github, CSPlib, benchmark	GRASP, time- tabling, edge-finding	133	n/a

E.3 InBook from bibtex

Table 27: Works from bibtex (Total 0)

					Conference		Nr	Nr		
Key	Authors	Title	LC	Year	/Journal	Pages	Cites	Refs	b	c

E.4 InCollection from bibtex

Table 28: Works from bibtex (Total 0)

						Conference		Nr	Nr		
Key	Authors	Title	LC	Cite	Year	/Journal	Pages	Cites	Refs	b	с

Table 29: Automatically Extracted INCOLLECTION Properties (Requires Local Copy)

			Prog	CP					
Work	Pages Concepts	Classification Constraints	Languages	Systems	Areas	Industries	Benchmarks	Algorithm	a c

F Background Works

Table 30: Works from bibtex (Total 0)

						Conference		Nr	Nr		
Key	Authors	Title	$_{ m LC}$	Cite	Year	/Journal	Pages	Cites	Refs	b	с