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## Variable neighborhood search

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2078	Metaheurísticas aplicadas à geração de carrossel no sistema brasileiro de TV Digital. <b>2008,</b>	
2077	Integrated production planning for the multiple-machine sheet metal shop with laser cutting and air bending. <b>2008,</b>	1
2076	Using Variable Neighborhood Search to improve the Support Vector Machine performance in embedded automotive applications. <b>2008,</b>	6
2075	Hybrid genetic-VNS algorithm with total flowtime minimization for the no-wait flowshop problem. <b>2008,</b>	
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2066	A modified Variable Neighborhood Search for minimizing the makespan on identical parallel machines. <b>2009,</b>	3
2065	Quality measures to adapt the participation in MOS. <b>2009,</b>	
2064	Scheduling jobs on parallel machines with sequence-dependent setup times, precedence constraints, and ready times using variable neighborhood search. <b>2009,</b>	4
2063	Differential Evolution Algorithms for the Generalized Assignment problem. <b>2009,</b>	11

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2039	A survey of search methodologies and automated system development for examination timetabling. <b>2009</b> , 12, 55-89	214
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2025	A variable-neighbourhood search algorithm for finding optimal run orders in the presence of serial correlation. <b>2009</b> , 139, 30-44		11
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1923	Bees algorithm for dynamic multi-zone dispatching in truck load trucking. <b>2010</b> ,	2
1922	Discrete Particle Swarm Optimization for the Orienteering Problem. <b>2010</b> ,	15
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1899	Hybrid variable neighbourhood search algorithm for attribute reduction in Rough Set Theory. <b>2010,</b>	8
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1895	A Variable Neighborhood Search Method for an Integrated Cellular Manufacturing Systems with Production Planning and System Reconfiguration. <b>2010,</b>	
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1892	Design of low complexity multiplierless digital filters with optimized free structure using a population-based metaheuristic. <b>2011,</b>	1
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1880	Otsu's criterion-based multilevel thresholding by a nature-inspired metaheuristic called Galaxy-based Search Algorithm. <b>2011</b> ,	8
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1877	A Novel Column Generation Algorithm for the Vehicle Routing Problem with Cross-Docking. <b>2011</b> , 412-425	8
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1874	A differential evolution algorithm for the no-idle flowshop scheduling problem with total tardiness criterion. <b>2011</b> , 49, 5033-5050	40
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1870	Metaheuristics for the multi-item capacitated lot-sizing problem with time Windows and setup times. <b>2011</b> ,	
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1867	Using differential evolution for the graph coloring. <b>2011</b> ,	3
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1853	Neighborhood analysis: a case study on curriculum-based course timetabling. <b>2011</b> , 17, 97-118	50
1852	A reactive GRASP with path relinking for capacitated clustering. <b>2011</b> , 17, 119-152	46
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1850	A heuristic for minimizing weighted carry-over effects in round robin tournaments. <b>2011</b> , 14, 655-667	13
1849	GRASP: basic components and enhancements. <b>2011</b> , 46, 253-271	47
1848	Hybridizing Evolutionary Algorithms with Variable-Depth Search to Overcome Local Optima. <b>2011</b> , 59, 343-368	18
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1842	Combining probabilistic algorithms, Constraint Programming and Lagrangian Relaxation to solve the Vehicle Routing Problem. <b>2011</b> , 62, 299-315		15
1841	Adaptive memory programming: local search parallel algorithms for phylogenetic tree construction. <b>2011</b> , 183, 75-94		1
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1835	Risk approaches for delivering disaster relief supplies. <b>2011</b> , 33, 543-569		77
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1833	A GRASP heuristic for the multi-objective permutation flowshop scheduling problem. <b>2011</b> , 55, 741-753		21
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1831	A variable neighborhood search based approach for uncapacitated multilevel lot-sizing problems. <b>2011</b> , 60, 218-227		18
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1829	A Tabu-Search Heuristic for Deterministic Two-Mode Blockmodeling of Binary Network Matrices. <b>2011</b> , 76, 612-33		25

1828	A multilevel variable neighborhood search heuristic for a practical vehicle routing and driver scheduling problem. <b>2011</b> , 58, 311-322		16
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1826	Honey bees mating optimization algorithm for the Euclidean traveling salesman problem. <b>2011</b> , 181, 4684-4698		80
1825	A heuristic-based hybrid genetic-variable neighborhood search algorithm for task scheduling in heterogeneous multiprocessor system. <b>2011</b> , 181, 567-581		73
1824	Balancing message delivery latency and network lifetime through an integrated model for clustering and routing in Wireless Sensor Networks. <b>2011</b> , 55, 2803-2820		22
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1820	Digital ants as the best cicerones for museum visitors. <b>2011</b> , 11, 111-119		14
1819	Using intermediate infeasible solutions to approach vehicle routing problems with precedence and loading constraints. <b>2011</b> , 211, 66-75		14
1818	Hyper-heuristic approaches for the response time variability problem. <b>2011</b> , 211, 160-169		20
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1816	A reduced variable neighborhood search algorithm for uncapacitated multilevel lot-sizing problems. <b>2011</b> , 214, 223-231		25
1815	Variable assignment and instruction scheduling for processor with multi-module memory. <b>2011</b> , 35, 308-317		1
1814	Bi-criteria flexible job-shop scheduling with sequence-dependent setup times—Variable neighborhood search approach. <b>2011</b> , 30, 8-15		59
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1786	Minimization of the k-th maximum and its application on LMS regression and VaR optimization. <b>2012, 63, 1479-1491</b>	6
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1767	Mesh Network Deployment to Ensure Global Reachability. <b>2012</b> ,	
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1765	Multi-objective Algorithms for the Single Machine Scheduling Problem with Sequence-Dependent Family Setups. <b>2012</b> ,	1
1764	An empirical study of hyperheuristics for managing very large sets of low level heuristics. <b>2012</b> , 63, 392-405	18
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1762	A GRASP-VNS algorithm for optimal wind-turbine placement in wind farms. <b>2012</b> , 48, 489-498	23
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1760	Variable neighbourhood structures for cycle location problems. <b>2012</b> , 223, 15-26	2
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1757	Variable neighborhood search for the Vertex Separation Problem. <i>Computers and Operations Research</i> , <b>2012</b> , 39, 3247-3255	4.6 42



1756	An event-driven optimization framework for dynamic vehicle routing. <b>2012</b> , 54, 414-423	50
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1754	A Variable Neighbourhood Search approach to the Cutwidth Minimization Problem. <b>2012</b> , 39, 67-74	2
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1751	A variable neighborhood decomposition search algorithm for multilevel capacitated lot-sizing problems. <b>2012</b> , 39, 129-135	10
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1743	A Simulated Annealing with Variable Neighborhood Search Approach to Construct Mixed Covering Arrays. <b>2012</b> , 39, 249-256	11
1742	Estimating Differential Evolution crossover parameter with VNS approach for continuous global optimization. <b>2012</b> , 39, 257-264	
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1740	Multilevel neighborhood search for solving full truckload routing problems arising in timber transportation. <b>2012</b> , 39, 281-288	14
1739	Multi-objective optimization with fuzzy measures and its application to flow-shop scheduling. <b>2012</b> , 25, 1381-1394	10

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1731	A reliability/availability approach to joint production and maintenance scheduling with multiple preventive maintenance services. <b>2012</b> , 50, 5906-5925		33
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1728	Accelerating benders decomposition with heuristicmaster problem solutions. <b>2012</b> , 32, 03-20		18
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1725	Neighborhood search techniques for solving uncapacitated multilevel lot-sizing problems. <i>Computers and Operations Research</i> , <b>2012</b> , 39, 647-658	4.6	17
1724	The dual role of fragments in fragment-assembly methods for de novo protein structure prediction. <b>2012</b> , 80, 490-504		33
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1721	A generalized variable neighborhood search heuristic for the capacitated vehicle routing problem with stochastic service times. <b>2012</b> , 20, 99-118		37

1720	Memetic algorithm for the Traveling Car Renter Problem: an experimental investigation. <b>2012</b> , 4, 89-108		22
1719	Iterated hybrid metaheuristic algorithms for unrelated parallel machines problem with unequal ready times and sequence-dependent setup times. <b>2012</b> , 60, 693-705		9
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1716	Design and implementation of adaptive power-aware virtual machine provisioner (APA-VMP) using swarm intelligence. <b>2012</b> , 28, 811-821		57
1715	Global optimality conditions and optimization methods for quadratic assignment problems. <b>2012</b> , 218, 6214-6231		3
1714	Estimating the four parameters of the Burr III distribution using a hybrid method of variable neighborhood search and iterated local search algorithms. <b>2012</b> , 218, 9664-9675		10
1713	A discrete particle swarm optimization algorithm with self-adaptive diversity control for the permutation flowshop problem with blocking. <b>2012</b> , 12, 652-662		57
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1709	On the use of multi neighbourhood structures within a Tabu-based memetic approach to university timetabling problems. <b>2012</b> , 191, 146-168		36
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1707	A hybrid adaptive large neighborhood search heuristic for lot-sizing with setup times. <b>2012</b> , 218, 614-623		49
1706	Adaptive neighborhood search for nurse rostering. <b>2012</b> , 218, 865-876		51
1705	Product line pricing for services with capacity constraints and dynamic substitution. <b>2012</b> , 219, 347-359		16
1704	The Team Orienteering Problem with Time Windows: An LP-based Granular Variable Neighborhood Search. <b>2012</b> , 220, 15-27		115
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1702	Variable neighborhood search for metric dimension and minimal doubly resolving set problems. <b>2012</b> , 220, 328-337	19
1701	A hybrid algorithm for the Heterogeneous Fleet Vehicle Routing Problem. <b>2012</b> , 221, 285-295	99
1700	A simple and effective metaheuristic for the Minimum Latency Problem. <b>2012</b> , 221, 513-520	86
1699	Local search based heuristics for global optimization: Atomic clusters and beyond. <b>2012</b> , 222, 1-9	10
1698	Real-world production scheduling for the food industry: An integrated approach. <b>2012</b> , 25, 222-228	33
1697	Annual production budget in the beverage industry. <b>2012</b> , 25, 229-241	18
1696	Using Traffic Information for Time-Dependent Vehicle Routing. <b>2012</b> , 39, 217-229	27
1695	Multicommodity Network Design Problem in Rail Freight Transportation Planning. <b>2012</b> , 43, 728-739	18
1694	Metaheuristics in Logistics and Supply Chain Management. <b>2012</b> , 33, 90-106	50
1693	Models and heuristics for the k-degree constrained minimum spanning tree problem with node-degree costs. <b>2012</b> , 60, 1-18	7
1692	A GRASP based on DE to solve single machine scheduling problem with SDST. <b>2012</b> , 51, 411-435	8
1691	Heuristics for a project management problem with incompatibility and assignment costs. <b>2012</b> , 51, 1231-1252	10
1690	A mathematical model and a metaheuristic approach for a memory allocation problem. <b>2012</b> , 18, 149-167	10
1689	Path-relinking intensification methods for stochastic local search algorithms. <b>2012</b> , 18, 193-214	50
1688	Transshipment service through crossdocks with both soft and hard time windows. <b>2012</b> , 192, 21-47	24
1687	Heuristic optimisation in financial modelling. <b>2012</b> , 193, 129-158	32
1686	Managing the tabu list length using a fuzzy inference system: an application to examination timetabling. <b>2012</b> , 194, 341-363	6
1685	An improved column generation algorithm for minimum sum-of-squares clustering. <b>2012</b> , 131, 195-220	54

1684	Algorithms for the maximum k-club problem in graphs. <b>2013</b> , 26, 520-554		15
1683	Open problems on graph eigenvalues studied with AutoGraphiX. <b>2013</b> , 1, 181-199		4
1682	The prize-collecting vehicle routing problem with single and multiple depots and non-linear cost. <b>2013</b> , 2, 57-87		20
1681	A meta-heuristic algorithm for the fuzzy assembly line balancing type-E problem. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 3033-3044	4.6	31
1680	Routing of barge container ships by mixed-integer programming heuristics. <b>2013</b> , 13, 3515-3528		24
1679	Models and Methods in Graph Coloration for Various Production Problems. <b>2013</b> , 153-181		1
1678	Mathematical Programming and Heuristics for Scheduling Problems with Early and Tardy Penalties. <b>2013</b> , 183-223		1
1677	A LEARNING AUTOMATA-BASED ALGORITHM TO THE STOCHASTIC MIN-DEGREE CONSTRAINED MINIMUM SPANNING TREE PROBLEM. <b>2013</b> , 24, 329-348		2
1676	Vehicle routing problem with time windows under availability constraints. <b>2013</b> ,		2
1675	Branch-and-price algorithms for the Two-Echelon Capacitated Vehicle Routing Problem. <b>2013</b> , 7, 1537-1547		33
1674	An iterative approach for the serial batching problem with parallel machines and job families. <b>2013</b> , 206, 425-448		15
1673	Efficient techniques for the multi-period vehicle routing problem with time windows within a branch and price framework. <b>2013</b> , 206, 1-22		11
1672	ParadisEO-MO: from fitness landscape analysis to efficient local search algorithms. <b>2013</b> , 19, 881-915		30
1671	Several versions of the devour digest tidy-up heuristic for unconstrained binary quadratic problems. <b>2013</b> , 19, 645-677		8
1670	Variable objective search. <b>2013</b> , 19, 697-709		9
1669	SO-MI: A surrogate model algorithm for computationally expensive nonlinear mixed-integer black-box global optimization problems. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 1383-1400	4.6	119
1668	Particle swarm optimization with cocktail decoding method for hybrid flow shop scheduling problems with multiprocessor tasks. <b>2013</b> , 141, 137-145		40
1667	An alternative clustering approach for reconstructing cross cut shredded text documents. <b>2013</b> , 52, 1491-1501		15

1666	Mobility-Based Backbone Formation in Wireless Mobile Ad-hoc Networks. <b>2013</b> , 71, 2563-2586		9
1665	Metaheuristic algorithms hybridised with variable neighbourhood search for solving the response time variability problem. <b>2013</b> , 21, 296-312		4
1664	GPU acceleration for the web browser based evolutionary computing system. <b>2013</b> ,		2
1663	Hybridization of harmony search with variable neighborhood search for restrictive single-machine earliness/tardiness problem. <b>2013</b> , 226, 68-92		28
1662	Effective and efficient scheduling of dynamic job shopsâ€”Combining the shifting bottleneck procedure with variable neighbourhood search. <b>2013</b> , 62, 423-426		13
1661	Hyper-heuristics: a survey of the state of the art. <b>2013</b> , 64, 1695-1724		632
1660	A hybrid approach based on the variable neighborhood search and particle swarm optimization for parallel machine scheduling problemsâ€”A case study for solar cell industry. <b>2013</b> , 141, 66-78		28
1659	A variable iterated greedy algorithm with differential evolution for the no-idle permutation flowshop scheduling problem. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 1729-1743	4.6	77
1658	An Exact Algorithm for Blockmodeling of Two-Mode Network Data. <b>2013</b> , 37, 61-84		9
1657	State of the Practice and Future Needs for Production Planning and Control Systems. <b>2013</b> , 247-266		
1656	Null control in linear antenna arrays with ensemble differential evolution. <b>2013</b> ,		1
1655	Quadratic Assignment Problems. <b>2013</b> , 2741-2814		30
1654	Computer Engineering and Technology. <b>2013</b> ,		
1653	Optimization of multi-criteria website structure based on enhanced tabu search and web usage mining. <b>2013</b> , 219, 11082-11095		28
1652	Improved bounds for large scale capacitated arc routing problem. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 2145-2160	4.6	27
1651	Statistical analysis of distance-based path relinking for the capacitated vehicle routing problem. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 3197-3205	4.6	13
1650	A hybrid PSO algorithm for a multi-objective assembly line balancing problem with flexible operation times, sequence-dependent setup times and learning effect. <b>2013</b> , 141, 99-111		118
1649	Memory-saving memetic computing for path-following mobile robots. <b>2013</b> , 13, 2003-2016		28

1648	Multiobjective optimization of MPLS-IP networks with a variable neighborhood genetic algorithm. <b>2013</b> , 13, 4403-4412	2
1647	Adaptive variable neighborhood search for solving multi-objective facility layout problems with unequal area facilities. <b>2013</b> , 8, 1-12	54
1646	Studying the effect of different combinations of timetabling with sequencing algorithms to solve the no-wait job shop scheduling problem. <b>2013</b> , 51, 4942-4965	13
1645	Metabolomics data analysis – processing and analysis of a dataset. <b>2013</b> , 261-333	
1644	Use of quadratic models with mesh-adaptive direct search for constrained black box optimization. <b>2013</b> , 28, 139-158	65
1643	A combined approach using meta-heuristic and mathematical operators for images segmentation. <b>2013</b> ,	
1642	SAIL: Summation-bAsed Incremental Learning for Information-Theoretic Text Clustering. <b>2013</b> , 43, 570-84	45
1641	A meta-heuristic algorithm combining between Tabu and Variable Neighborhood Search for the Minimum Latency Problem. <b>2013</b> ,	
1640	Local search and restart strategies for satisfiability solving in fuzzy logics. <b>2013</b> ,	2
1639	A two-phase hybrid heuristic for the two-echelon vehicle routing problem. <b>2013</b> ,	1
1638	Local search heuristics for the Flowshop Sequence Dependent Group Scheduling problem. <b>2013</b> ,	
1637	An Iterated Local Search heuristic for the Heterogeneous Fleet Vehicle Routing Problem. <b>2013</b> , 19, 201-232	134
1636	An Adaptive Variable Neighborhood Search Algorithm for a Vehicle Routing Problem Arising in Small Package Shipping. <b>2013</b> , 47, 64-80	90
1635	Variable neighborhood search for location routing. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 47-57 4.6	88
1634	Candidate groups search for K-harmonic means data clustering. <b>2013</b> , 37, 10123-10128	19
1633	Composing fifth species counterpoint music with a variable neighborhood search algorithm. <b>2013</b> , 40, 6427-6437	14
1632	Comparison of metaheuristic strategies for peakbin selection in proteomic mass spectrometry data. <b>2013</b> , 222, 229-246	11
1631	Iterative approaches for a dynamic memory allocation problem in embedded systems. <b>2013</b> , 231, 34-42	3

1630	Optimization-based decision support for scenario analysis in electronic sourcing markets with volume discounts. <b>2013</b> , 12, 152-165		3
1629	Heuristics for Rich Profitable Tour Problems. <b>2013</b> ,		2
1628	A simulation-based approach to price optimisation of the mixed bundling problem with capacity constraints. <b>2013</b> , 145, 584-598		19
1627	Variable neighborhood search for minimum sum-of-squares clustering on networks. <b>2013</b> , 230, 356-363		19
1626	Variable neighborhood search algorithm for heterogeneous traveling repairmen problem with time windows. <b>2013</b> , 40, 5997-6006		16
1625	Minimising maximum response time. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 2314-2321	4.6	2
1624	A hybrid GRASP heuristic to construct effective drawings of proportional symbol maps. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 1435-1447	4.6	11
1623	Heuristics for the traveling repairman problem with profits. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 1700-1707	4.6	45
1622	Single string planning problem arising in liner shipping industries: A heuristic approach. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 2357-2373	4.6	5
1621	An augmented large neighborhood search method for solving the team orienteering problem. <b>2013</b> , 40, 3065-3072		30
1620	An integer optimization approach for reverse engineering of gene regulatory networks. <b>2013</b> , 161, 580-592		4
1619	Multistart Branch and Bound for Large Asymmetric Distance-Constrained Vehicle Routing Problem. <b>2013</b> , 15-38		4
1618	Variable Formulation Search for the Cutwidth Minimization Problem. <b>2013</b> , 13, 2242-2252		53
1617	A hybrid discrete artificial bee colony algorithm for permutation flowshop scheduling problem. <b>2013</b> , 13, 1459-1463		99
1616	Solving a fuzzy fixed charge solid transportation problem by metaheuristics. <b>2013</b> , 57, 1543-1558		33
1615	Variable neighborhood search for the travelling deliveryman problem. <b>2013</b> , 11, 57-73		37
1614	A survey on optimization metaheuristics. <b>2013</b> , 237, 82-117		862
1613	Metaheuristics for fuzzy dynamic facility layout problem with unequal area constraints and closeness ratings. <b>2013</b> , 67, 2701-2715		14



1612	Modeling and solving the bi-objective capacitated location-routing problem with probabilistic travel times. <b>2013</b> , 67, 2007-2019		17
1611	Deterministic Scheduling Approaches. <b>2013</b> , 105-175		
1610	A metaheuristic optimization approach for a real-world stochastic flexible flow shop problem with limited buffer. <b>2013</b> , 145, 88-95		37
1609	Time series interpolation via global optimization of moments fitting. <b>2013</b> , 230, 97-112		11
1608	Local Metaheuristics and Graph Partitioning. <b>2013</b> , 137-161		
1607	A parallel variable neighborhood search for the multi-objective sustainable post-sales network design problem. <b>2013</b> , 145, 117-131		45
1606	Heuristics for multi-attribute vehicle routing problems: A survey and synthesis. <b>2013</b> , 231, 1-21		266
1605	Analysing the scalability of multiobjective evolutionary algorithms when solving the motif discovery problem. <b>2013</b> , 57, 467-497		3
1604	A Pre-processing Aware RINS Based MIP Heuristic. <b>2013</b> , 1-11		3
1603	Applying two efficient hybrid heuristics for hub location problem with fully interconnected backbone and access networks. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 2493-2507	4.6	22
1602	A hybrid genetic-variable neighborhood search algorithm for the cell formation problem based on grouping efficacy. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 980-990	4.6	62
1601	Two-stage assembly flow-shop scheduling problem with non-identical assembly machines considering setup times. <b>2013</b> , 51, 3625-3642		47
1600	Semiconductor Manufacturing Process Description. <b>2013</b> , 11-28		2
1599	A VNS-Based Heuristic for Feature Selection in Data Mining. <b>2013</b> , 353-368		1
1598	A hybrid metaheuristic approach for the rollonâoff vehicle routing problem. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 1947-1952	4.6	24
1597	A comprehensive review and evaluation of permutation flowshop heuristics to minimize flowtime. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 117-128	4.6	78
1596	The time-dependent prize-collecting arc routing problem. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 526-535	4.6	25
1595	Hybrid column generation and large neighborhood search for the dial-a-ride problem. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 490-497	4.6	79

1594	Packing unit spheres into the smallest sphere using VNS and NLP. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 603-615	4.6	23
1593	The Capacitated Team Orienteering Problem: A Bi-level Filter-and-Fan method. <b>2013</b> , 224, 65-78		24
1592	Rich routing problems arising in supply chain management. <b>2013</b> , 224, 435-448		73
1591	Comparing multiobjective swarm intelligence metaheuristics for DNA motif discovery. <b>2013</b> , 26, 314-326		10
1590	Degree constrained minimum spanning tree problem: a learning automata approach. <b>2013</b> , 64, 226-249		14
1589	On characterization of maximal independent sets via quadratic optimization. <b>2013</b> , 19, 629-644		4
1588	. <b>2013</b> , 17, 545-557		17
1587	Batch scheduling on parallel machines with dynamic job arrivals and incompatible job families. <b>2013</b> , 51, 2462-2477		24
1586	FuX, an Android app that generates counterpoint. <b>2013</b> ,		4
1585	Heuristic solutions for the economic manpower shift planning problem. <b>2013</b> , 7, 657		5
1584	Dispatching Approaches. <b>2013</b> , 65-104		1
1583	Hybrid Metaheuristics for Dynamic and Stochastic Vehicle Routing. <b>2013</b> , 77-95		8
1582	A Hybrid Ant Colony Optimization Algorithm for Permutation Flow-Shop Scheduling in Manufacturing Systems and Industrial Process. <b>2013</b> , 345, 438-441		
1581	A Comparative Study of Firefly Algorithm and Shuffled Frog-Leaping Algorithm for Constrained Free and Manufacturing Optimization Problems. <b>2013</b> , 457-458, 618-623		
1580	A Modified -Median Model for the Emergency Facilities Location Problem and Its Variable Neighbourhood Search-Based Algorithm. <b>2013</b> , 2013, 1-10		5
1579	Ensemble of differential evolution algorithms for electromagnetic target recognition problem. <b>2013</b> , 7, 780-788		6
1578	Multi-Stage Simultaneous Lot-Sizing and Scheduling. <b>2013</b> ,		6
1577	A Hybrid Genetic Algorithm with Variable Neighborhood Search Approach to the Number Partitioning Problem. <b>2013</b> , 649-658		5

1576	A multiple-level variable neighborhood search approach to the orienteering problem. <b>2013</b> , 30, 238-247	9
1575	Heuristic solution approaches for the cumulative capacitated vehicle routing problem. <b>2013</b> , 62, 1321-1340	19
1574	Exploiting Tree Decomposition for Guiding Neighborhoods Exploration for VNS. <b>2013</b> , 47, 91-123	9
1573	Production Planning Approaches. <b>2013</b> , 207-246	2
1572	A Populated Iterated Greedy Algorithm with Inver-Over Operator for Traveling Salesman Problem. <b>2013</b> , 1-12	1
1571	A Voronoi neighborhood-based search heuristic for distance/capacity constrained very large vehicle routing problems. <b>2013</b> , 27, 741-764	18
1570	Study on multi-objective optimization for parallel batch machine scheduling using variable neighbourhood search. <b>2013</b> ,	1
1569	Simulated annealing for improving the solution of the response time variability problem. <b>2013</b> , 51, 4911-4920	1
1568	A data mining and optimization-based real-time mobile intelligent routing system for city logistics. <b>2013</b> ,	6
1567	Variable Objective Large Neighborhood Search: A Practical Approach to Solve Over-Constrained Problems. <b>2013</b> ,	5
1566	A Clonal Selection Algorithm for Makespan Minimization on Unrelated Parallel Machines with Sequence Dependent Setup Times. <b>2013</b> ,	1
1565	Simultaneous optimisation of products, processes, and people in development projects. <b>2013</b> , 24, 272-292	14
1564	A Survey of Swarm Algorithms Applied to Discrete Optimization Problems. <b>2013</b> , 169-191	55
1563	New Clustering Search approaches applied to continuous domain optimization. <b>2013</b> ,	1
1562	A variable neighborhood search method for a two-mode blockmodeling problem in social network analysis. <b>2013</b> , 1, 191-212	12
1561	Assigning Team Tasks and Multiple Activities to Fixed Work Shifts. <b>2013</b> , 51, 64-75	
1560	A Procedural Framework for Hybrid Decentralized Decision Problem Solving. <b>2013</b> , 46, 724-729	
1559	An Efficient Local Search for the Feedback Vertex Set Problem. <b>2013</b> , 6, 726-746	3

1558	A Comparative Study on Meta Heuristic Algorithms for Solving Multilevel Lot-Sizing Problems. <b>2013</b>	
1557	Core-Based GRASP for Delay-Constrained Group Communications. <b>2013</b> , 4, 1-22	1
1556	A variable neighborhood Walksat-based algorithm for MAX-SAT problems. <b>2014</b> , 2014, 798323	7
1555	Otimizaçã na alocaçã dinãmica de veÍCulos no transporte rodoviãrio de cargas completas entre terminais. <b>2014</b> , 21, 271-284	2
1554	A Two-Phase Scheduling Method Combined to the Tabu Search for the DARP. <b>2014</b> , 5, 1-21	1
1553	A hybrid cuckoo search and variable neighborhood descent for single and multiobjective scheduling problems. <b>2014</b> , 75, 1501-1516	10
1552	AN INTERACTIVE DECISION SUPPORT METHOD FOR REAL ESTATE MANAGEMENT IN A MULTI-CRITERIA FRAMEWORK àREMININD. <b>2014</b> , 18, 265-278	6
1551	. <b>2014</b> ,	3
1550	A discrete artificial bee colony algorithm for the Economic Lot Scheduling problem with returns. <b>2014</b> ,	1
1549	Hybrid intelligent water drops algorithm to unrelated parallel machines scheduling problem: a just-in-time approach. <b>2014</b> , 52, 5857-5879	23
1548	Realistic variant of just-in-time flowshop scheduling: integration of L p -metric method in PSO-like algorithm. <b>2014</b> , 75, 1787-1797	2
1547	Decision support and data mining for direct consumer-to-consumer trading. <b>2014</b> ,	1
1546	. <b>2014</b> ,	3
1545	An artificial bee colony algorithm for the economic lot scheduling problem. <b>2014</b> , 52, 1150-1170	24
1544	A parallel algorithm combines genetic algorithm and ant colony algorithm for the minimum latency problem. <b>2014</b> ,	3
1543	Hybrid imperialist competitive algorithm, variable neighborhood search, and simulated annealing for dynamic facility layout problem. <b>2014</b> , 25, 1871-1885	42
1542	Resequencing orders on mixed-model assembly lines: Heuristic approaches to minimise the number of overload situations. <b>2014</b> , 52, 5823-5840	10
1541	Very Large-Scale Neighborhood Search. <b>2014</b> , 339-367	

1540	Variable Neighborhood Search. <b>2014</b> , 313-337	25
1539	Meta-heuristics for the distributed two-stage assembly scheduling problem with bi-criteria of makespan and mean completion time. <b>2014</b> , 52, 2743-2766	35
1538	A Review of Methodological Approaches for the Design and Optimization of Wind Farms. <b>2014</b> , 7, 6930-7016	172
1537	A Wide-Area Measurement Systems-Based Adaptive Strategy for Controlled Islanding in Bulk Power Systems. <b>2014</b> , 7, 2631-2657	20
1536	Two Meta-Heuristics for Solving Unconstrained Optimization Problems and Machinery Problems. <b>2014</b> , 1044-1045, 1418-1423	
1535	A Heuristic Procedure for a Ship Routing and Scheduling Problem with Variable Speed and Discretized Time Windows. <b>2014</b> , 2014, 1-13	4
1534	A Discrete Group Search Optimizer for Hybrid Flowshop Scheduling Problem with Random Breakdown. <b>2014</b> , 2014, 1-11	6
1533	The feeder network design problem: Application to container services in the Black Sea region. <b>2014</b> , 16, 343-369	24
1532	A bottom-up implementation of Path-Relinking for Phylogenetic reconstruction applied to Maximum Parsimony. <b>2014</b> ,	
1531	Experiments using meta-heuristics to shape experimental design for a simulation-based optimization system: Intelligent configuration and setup of virtual tooling. <b>2014</b> ,	1
1530	A hybrid multi-objective iterated local search heuristic for vehicle routing problem with time windows. <b>2014</b> ,	1
1529	An overview of metaheuristics: accurate and efficient methods for optimisation. <b>2014</b> , 3, 320	140
1528	On the efficiency of worst improvement for climbing NK-landscapes. <b>2014</b> ,	2
1527	Function fitting the symmetric radiation pattern of a LED with attached secondary optic. <b>2014</b> , 22, 29587-93	4
1526	Chapter 4: Heuristics for the Vehicle Routing Problem. <b>2014</b> , 87-116	27
1525	Chapter 12: Software Tools and Emerging Technologies for Vehicle Routing and Intermodal Transportation. <b>2014</b> , 351-380	7
1524	Minimizing makespan for a no-wait flowshop using tabu mechanism improved iterated greedy algorithm. <b>2014</b> ,	3
1523	A variable neighbourhood search for hybrid flow-shop scheduling problem with rework and set-up times. <b>2014</b> , 65, 1221-1231	7

1522	A hybrid Harmony search algorithm with variable neighbourhood search for the bin-packing problem. <b>2014</b> ,		
1521	A Hybrid Harmony Search algorithm to minimize total weighted tardiness in the permutation flow shop. <b>2014</b> ,		7
1520	Approximating object based architecture for legacy software written in procedural languages using Variable Neighborhood Search. <b>2014</b> ,		
1519	A Survey on Direct Search Methods for Blackbox Optimization and Their Applications. <b>2014</b> , 31-56		22
1518	Speeding Up Logic-Based BendersâDecomposition by a Metaheuristic for a Bi-Level Capacitated Vehicle Routing Problem. <b>2014</b> , 183-197		6
1517	A Cooperative Agent-Based Multiple Neighborhood Search for the Capacitated Vehicle Routing Problem. <b>2014</b> , 129-143		1
1516	A Hybrid GRASP+VND Heuristic for the Two-Echelon Vehicle Routing Problem Arising in City Logistics. <b>2014</b> , 2014, 1-11		10
1515	A distance based variable neighborhood search for parallel machine scheduling. <b>2014</b> ,		
1514	Lower and upper bounds for the Bin Packing Problem with Fragile Objects. <b>2014</b> , 163, 73-86		4
1513	New and efficient DCA based algorithms for minimum sum-of-squares clustering. <b>2014</b> , 47, 388-401		34
1512	A variable neighborhood search particle filter for bearings-only target tracking. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 192-202	4.6	10
1511	DE-VNS: Self-adaptive Differential Evolution with crossover neighborhood search for continuous global optimization. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 157-169	4.6	34
1510	A simultaneous and iterative approach for parallel machine scheduling with sequence-dependent family setups. <b>2014</b> , 17, 471-487		13
1509	Variable neighborhood search for the bi-objective post-sales network design problem: A fitness landscape analysis approach. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 300-314	4.6	16
1508	The multi-depot vehicle routing problem with heterogeneous vehicle fleet: Formulation and a variable neighborhood search implementation. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 315-325	4.6	95
1507	A two phase variable neighborhood search for the multi-product inventory routing problem. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 291-299	4.6	38
1506	A hybrid variable neighborhood tabu search heuristic for the vehicle routing problem with multiple time windows. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 269-281	4.6	86
1505	Integrated job shop scheduling and layout planning: a hybrid evolutionary method for optimizing multiple objectives. <b>2014</b> , 5, 121-132		13

1504	Convergence analysis of some multiobjective evolutionary algorithms when discovering motifs. <b>2014</b> , 18, 853-869		4
1503	Localized biogeography-based optimization. <b>2014</b> , 18, 2323-2334		44
1502	Operations research in solid waste management: A survey of strategic and tactical issues. <i>Computers and Operations Research</i> , <b>2014</b> , 44, 22-32	4.6	154
1501	A variable iterated greedy algorithm for the traveling salesman problem with time windows. <b>2014</b> , 279, 383-395		31
1500	Variable Neighborhood Search based algorithms for high school timetabling. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 203-208	4.6	25
1499	A survey of recent research on location-routing problems. <b>2014</b> , 238, 1-17		379
1498	A branch-and-bound algorithm for assembly line worker assignment and balancing problems. <i>Computers and Operations Research</i> , <b>2014</b> , 44, 105-114	4.6	71
1497	Optimization for process plans in sheet metal forming. <b>2014</b> , 71, 973-982		4
1496	A self-adaptive resources selection model through a small-world based heuristic. <b>2014</b> , 68, 1441-1461		
1495	Two metaheuristic approaches for solving multidimensional two-way number partitioning problem. <i>Computers and Operations Research</i> , <b>2014</b> , 46, 59-68	4.6	12
1494	The min-degree constrained minimum spanning tree problem: Formulations and Branch-and-cut algorithm. <b>2014</b> , 164, 210-224		14
1493	Manufacturing Scheduling Systems. <b>2014</b> ,		41
1492	Search Methodologies. <b>2014</b> ,		46
1491	Location-arc routing problem: Heuristic approaches and test instances. <i>Computers and Operations Research</i> , <b>2014</b> , 43, 309-317	4.6	26
1490	Two level General variable neighborhood search for Attractive traveling salesman problem. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 341-348	4.6	16
1489	Minimizing the total completion time in a distributed two stage assembly system with setup times. <i>Computers and Operations Research</i> , <b>2014</b> , 47, 92-105	4.6	38
1488	A hybrid two-stock inventory control model for a reverse supply chain. <b>2014</b> , 67, 141-161		32
1487	Edge-ratio network clustering by Variable Neighborhood Search. <b>2014</b> , 87, 1		7

1486	Fast metaheuristics for the discrete (r p)-centroid problem. <b>2014</b> , 75, 677-687		29
1485	A location-routing problem in glass recycling. <b>2014</b> , 223, 329-353		8
1484	A bi-level Voronoi diagram-based metaheuristic for a large-scale multi-depot vehicle routing problem. <b>2014</b> , 61, 84-97		39
1483	A clustering-based modified variable neighborhood search algorithm for a dynamic job shop scheduling problem. <b>2014</b> , 70, 1955-1961		26
1482	A two-stage approach to the orienteering problem with stochastic weights. <i>Computers and Operations Research</i> , <b>2014</b> , 43, 248-260	4.6	35
1481	Optimizing frequent time-window selection for association rules mining in a temporal database using a variable neighbourhood search. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 241-250	4.6	5
1480	MaxMinMin p-dispersion problem: A variable neighborhood search approach. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 251-259	4.6	9
1479	The classroom assignment problem: Complexity, size reduction and heuristics. <b>2014</b> , 14, 677-686		11
1478	A discrete gravitational search algorithm for solving combinatorial optimization problems. <b>2014</b> , 258, 94-107		63
1477	A hybrid variable neighborhood search algorithm for solving the limited-buffer permutation flow shop scheduling problem with the makespan criterion. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 260-268	4.6	31
1476	Scheduled penalty Variable Neighborhood Search. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 170-180	4.6	5
1475	A high performing metaheuristic for multi-objective flowshop scheduling problem. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 149-156	4.6	14
1474	Designing a sustainable closed-loop supply chain network based on triple bottom line approach: A comparison of metaheuristics hybridization techniques. <b>2014</b> , 235, 594-615		280
1473	Scheduling jobs with ready times and precedence constraints on parallel batch machines using metaheuristics. <b>2014</b> , 78, 175-185		35
1472	Efficient heuristics for the workover rig routing problem with a heterogeneous fleet and a finite horizon. <b>2014</b> , 20, 677-708		14
1471	A matheuristic for the liner shipping network design problem. <b>2014</b> , 72, 42-59		45
1470	Heuristic approach for solving the makespan problem in a hospital sterilization service. <b>2014</b> ,		
1469	Demand-side response of smart clients under real-time pricing. <b>2014</b> ,		3



1468	The generalized covering traveling salesman problem. <b>2014</b> , 24, 867-878		17
1467	A two-stage no-wait job shop scheduling problem by using a neuro-evolutionary variable neighborhood search. <b>2014</b> , 74, 1595-1610		8
1466	Biobjective sparse principal component analysis. <b>2014</b> , 132, 151-159		3
1465	Self-adaptivity for grid applications. An Efficient Resources Selection model based on evolutionary computation algorithms. <b>2014</b> , 40, 345-361		1
1464	Variable neighborhood search for the pharmacy duty scheduling problem. <i>Computers and Operations Research</i> , <b>2014</b> , 51, 218-226	4.6	11
1463	A hybrid variable neighborhood search for solving the hybrid flow shop scheduling problem. <b>2014</b> , 24, 63-77		48
1462	GGSA: A Grouping Gravitational Search Algorithm for data clustering. <b>2014</b> , 36, 114-121		60
1461	A brief introduction to exact, approximation, and heuristic algorithms for solving hard combinatorial optimization problems. <b>2014</b> ,		10
1460	A fast search algorithm for Critical Clearing Time for power systems transient stability analysis. <b>2014</b> ,		2
1459	The multi-constraint team orienteering problem with time windows in the context of distribution problems: A variable neighborhood search algorithm. <b>2014</b> ,		1
1458	Evolutionary Computation in Combinatorial Optimisation. <b>2014</b> ,		
1457	A hybrid approach for integrated healthcare cooperative purchasing and supply chain configuration. <b>2014</b> , 17, 303-20		27
1456	SO-I: a surrogate model algorithm for expensive nonlinear integer programming problems including global optimization applications. <b>2014</b> , 59, 865-889		39
1455	Enhancing variable neighborhood search by adding memory: Application to a real logistic problem. <b>2014</b> , 62, 28-37		7
1454	A mixed integer linear programming model and variable neighborhood search for Maximally Balanced Connected Partition Problem. <b>2014</b> , 237, 85-97		4
1453	A Granular Variable Tabu Neighborhood Search for the capacitated location-routing problem. <b>2014</b> , 67, 344-356		63
1452	A review of discrete-time optimization models for tactical production planning. <b>2014</b> , 52, 5171-5205		61
1451	Optimization of algorithms with OPAL. <b>2014</b> , 6, 233-254		15

1450	MEIGO: an open-source software suite based on metaheuristics for global optimization in systems biology and bioinformatics. <b>2014</b> , 15, 136		87
1449	Minimizing total earliness and tardiness on a permutation flow shop using VNS and MIP. <b>2014</b> , 75, 142-156		13
1448	Model and algorithm for an unpaired pickup and delivery vehicle routing problem with split loads. <b>2014</b> , 69, 218-235		26
1447	The Electric Vehicle-Routing Problem with Time Windows and Recharging Stations. <b>2014</b> , 48, 500-520		492
1446	An efficient hybrid meta-heuristic for a cross-docking system with temporary storage. <b>2014</b> , 52, 1231-1239		13
1445	EVOLVE - A Bridge between Probability, Set Oriented Numerics, and Evolutionary Computation V. <b>2014</b> ,		1
1444	A global optimisation approach for parameter estimation of a mixture of double Pareto lognormal and lognormal distributions. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 231-240	4.6	1
1443	Artificial chromosomes with genetic algorithm 2 (ACGA2) for single machine scheduling problems with sequence-dependent setup times. <b>2014</b> , 17, 167-175		13
1442	Automated generation of conjectures on forbidden subgraph characterization. <b>2014</b> , 162, 177-194		
1441	A variable neighborhood search with an effective local search for uncapacitated multilevel lot-sizing problems. <b>2014</b> , 235, 102-114		24
1440	Decomposition based hybrid VNS&M algorithm for distributed parallel factories scheduling with virtual corporation. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 181-191	4.6	33
1439	A comparison of simulated annealing algorithms for variable selection in principal component analysis and discriminant analysis. <b>2014</b> , 77, 38-53		31
1438	Variable neighborhood search for the workload balancing problem in service enterprises. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 282-290	4.6	2
1437	A nested heuristic for parameter tuning in Support Vector Machines. <i>Computers and Operations Research</i> , <b>2014</b> , 43, 328-334	4.6	22
1436	Combining intensification and diversification strategies in VNS. An application to the Vertex Separation problem. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 209-219	4.6	39
1435	A decision support system for optimizing dynamic courier routing operations. <b>2014</b> , 41, 6917-6933		29
1434	Tree ensemble construction using a GRASP-based heuristic and annealed randomness. <b>2014</b> , 20, 189-202		8
1433	Multi-objective metaheuristic algorithms for the resource-constrained project scheduling problem with precedence relations. <i>Computers and Operations Research</i> , <b>2014</b> , 44, 92-104	4.6	24

1432	A novel discrete particle swarm optimization for p-median problem. <b>2014</b> , 26, 11-19		10
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1206	A hybrid iterated greedy algorithm for total tardiness minimization in permutation flowshops. <b>2016</b> , 98, 300-307	34
1205	A research survey: review of flexible job shop scheduling techniques. <b>2016</b> , 23, 551-591	179
1204	A general variable neighbourhood search for the multi-product inventory routing problem. <b>2016</b> , 27, 39-54	7
1203	Proximity search heuristics for wind farm optimal layout. <b>2016</b> , 22, 459-474	23
1202	Incentive contract design in project management with serial tasks and uncertain completion times. <b>2016</b> , 48, 629-651	11
1201	Rotated neighbor learning-based auto-configured evolutionary algorithm. <b>2016</b> , 59, 1	6
1200	Heuristics for designing multi-sink clustered WSN topologies. <b>2016</b> , 50, 20-31	15
1199	A game-based meta-heuristic for a fuzzy bi-objective reliable hub location problem. <b>2016</b> , 50, 1-19	39

1198	PSO-based and SA-based metaheuristics for bilinear programming problems: an application to the pooling problem. <b>2016</b> , 22, 147-179		6
1197	A bi-objective approach for scheduling ground-handling vehicles in airports. <i>Computers and Operations Research</i> , <b>2016</b> , 71, 34-53	4.6	26
1196	A computational study for bilevel quadratic programs using semidefinite relaxations. <b>2016</b> , 254, 9-18		4
1195	A hybrid discrete differential evolution algorithm for deadlock-free scheduling with setup times of flexible manufacturing systems. <b>2016</b> , 38, 1270-1280		6
1194	A Variable Neighbourhood Search for the Workforce Scheduling and Routing Problem. <b>2016</b> , 247-259		6
1193	The heterogeneous green vehicle routing and scheduling problem with time-varying traffic congestion. <b>2016</b> , 88, 146-166		121
1192	A model for clustering data from heterogeneous dissimilarities. <b>2016</b> , 253, 659-672		16
1191	The customer-centric, multi-commodity vehicle routing problem with split delivery. <b>2016</b> , 56, 335-348		17
1190	Modeling two-stage UHL problem with uncertain demands. <b>2016</b> , 40, 3029-3048		22
1189	Parallel strategic oscillation: an application to the maximum leaf spanning tree problem. <b>2016</b> , 5, 121-128		2
1188	A multi-start heuristic approach for the split-delivery vehicle routing problem with minimum delivery amounts. <b>2016</b> , 88, 11-31		19
1187	A heuristic approach to solve the preventive health care problem with budget and congestion constraints. <b>2016</b> , 276, 442-453		12
1186	Global optimization using q-gradients. <b>2016</b> , 251, 727-738		12
1185	Nested general variable neighborhood search for the periodic maintenance problem. <b>2016</b> , 252, 385-396		18
1184	Adaptive general variable neighborhood search heuristics for solving the unit commitment problem. <b>2016</b> , 78, 873-883		26
1183	Connecting a population dynamic model with a multi-period location-allocation problem for post-disaster relief operations. <b>2016</b> , 247, 693-713		47
1182	Solving the bus evacuation problem and its variants. <i>Computers and Operations Research</i> , <b>2016</b> , 70, 75-86	4.6	14
1181	Metaheuristics for the single machine weighted quadratic tardiness scheduling problem. <i>Computers and Operations Research</i> , <b>2016</b> , 70, 115-126	4.6	7



1180	Simultaneous planning of the project scheduling and material procurement problem under the presence of multiple suppliers. <b>2016</b> , 48, 1474-1490	12
1179	A two-level self-adaptive variable neighborhood search algorithm for the prize-collecting vehicle routing problem. <b>2016</b> , 43, 469-479	29
1178	A fast variable neighborhood search for p-hub median problem using social network analysis concepts. <b>2016</b> , 39, 372-380	
1177	An efficient incremental evaluation function for optimizing truck scheduling in a resource-constrained crossdock using metaheuristics. <b>2016</b> , 45, 172-184	6
1176	Simulating non-stationary operators in search algorithms. <b>2016</b> , 38, 257-268	7
1175	Pareto clustering search applied for 3D container ship loading plan problem. <b>2016</b> , 44, 50-57	21
1174	An ILS-based algorithm to solve a large-scale real heterogeneous fleet VRP with multi-trips and docking constraints. <b>2016</b> , 250, 367-376	46
1173	Dynamic scaling in the mesh adaptive direct search algorithm for blackbox optimization. <b>2016</b> , 17, 333-358	11
1172	The bipartite quadratic assignment problem and extensions. <b>2016</b> , 250, 715-725	8
1171	Configuration and the advantages of the shifting bottleneck procedure for optimizing the job shop total weighted tardiness scheduling problem. <b>2016</b> , 19, 429-452	4
1170	A Survey of Metaheuristics Methods for Bioinformatics Applications. <b>2016</b> , 23-46	5
1169	Control of Flexible Manufacturing Systems under model uncertainty using Supervisory Control Theory and evolutionary computation schedule synthesis. <b>2016</b> , 329, 491-502	19
1168	Iterated Tabu Search and Variable Neighborhood Descent for packing unequal circles into a circular container. <b>2016</b> , 250, 615-627	24
1167	Circulant weighing matrices: a demanding challenge for parallel optimization metaheuristics. <b>2016</b> , 10, 1303-1314	12
1166	Less is more: Basic variable neighborhood search for minimum differential dispersion problem. <b>2016</b> , 326, 160-171	61
1165	High-dimensional feature selection via feature grouping: A Variable Neighborhood Search approach. <b>2016</b> , 326, 102-118	66
1164	A two-phase variable neighbourhood search algorithm for assembly line worker assignment and balancing problem type-II: an industrial case study. <b>2016</b> , 54, 722-741	42
1163	A Case Study of Controlling Crossover in a Selection Hyper-heuristic Framework Using the Multidimensional Knapsack Problem. <b>2016</b> , 24, 113-41	22

1162	An integrated CPU-CPU heuristic inspired on variable neighbourhood search for the single vehicle routing problem with deliveries and selective pickups. <b>2016</b> , 54, 945-962		26
1161	An integer programming approach to the multimode resource-constrained multiproject scheduling problem. <b>2016</b> , 19, 295-307		27
1160	Mixed-integer linear programming heuristics for the prepack optimization problem. <b>2016</b> , 22, 195-205		6
1159	Solving a fuzzy multi objective model of a production-distribution system using meta-heuristic based approaches. <b>2017</b> , 28, 95-109		21
1158	A general variable neighborhood search variants for the travelling salesman problem with draft limits. <b>2017</b> , 11, 1047-1056		17
1157	New MIP model for multiprocessor scheduling problem with communication delays. <b>2017</b> , 11, 1091-1107		6
1156	General Variable Neighborhood Search for computing graph separators. <b>2017</b> , 11, 1069-1089		12
1155	Solving the clique partitioning problem as a maximally diverse grouping problem. <b>2017</b> , 11, 1123-1135		14
1154	A general variable neighborhood search for solving the uncapacitated (r)-allocation (p)-hub median problem. <b>2017</b> , 11, 1109-1121		37
1153	A VNS approach to multi-location inventory redistribution with vehicle routing. <i>Computers and Operations Research</i> , <b>2017</b> , 78, 526-536	4.6	11
1152	The Multiple Trip Vehicle Routing Problem with Backhauls: Formulation and a Two-Level Variable Neighbourhood Search. <i>Computers and Operations Research</i> , <b>2017</b> , 78, 454-467	4.6	39
1151	A hybrid variable neighborhood search for the Orienteering Problem with mandatory visits and exclusionary constraints. <i>Computers and Operations Research</i> , <b>2017</b> , 78, 408-419	4.6	17
1150	Combining VNS with Genetic Algorithm to solve the one-to-one routing issue in road networks. <i>Computers and Operations Research</i> , <b>2017</b> , 78, 420-430	4.6	26
1149	J-means and I-means for minimum sum-of-squares clustering on networks. <b>2017</b> , 11, 359-376		5
1148	An integration of Lagrangian split and VNS: The case of the capacitated vehicle routing problem. <i>Computers and Operations Research</i> , <b>2017</b> , 78, 513-525	4.6	14
1147	Variable Neighborhood Search for extremal vertices : The AutoGraphiX-III system. <i>Computers and Operations Research</i> , <b>2017</b> , 78, 431-438	4.6	4
1146	General variable neighborhood search for the uncapacitated single allocation p-hub center problem. <b>2017</b> , 11, 377-388		25
1145	A new cuckoo search algorithm with hybrid strategies for flow shop scheduling problems. <b>2017</b> , 21, 4297-4307		45

1144	A general variable neighborhood search for the swap-body vehicle routing problem. <i>Computers and Operations Research</i> , <b>2017</b> , 78, 468-479	4.6	17
1143	University course timetabling using a new ecogeography-based optimization algorithm. <b>2017</b> , 16, 61-74		9
1142	Incorporating neighborhood reduction for the solution of the planar p-median problem. <b>2017</b> , 258, 639-654		17
1141	A basic variable neighborhood search heuristic for the uncapacitated multiple allocation p-hub center problem. <b>2017</b> , 11, 313-327		23
1140	A variable neighborhood search algorithm to generate piano fingerings for polyphonic sheet music. <b>2017</b> , 24, 509-535		7
1139	Generalized mixed integer and VNS heuristic approach to solving the multisize containers drayage problem. <b>2017</b> , 24, 583-614		20
1138	On the use of developers' context for automatic refactoring of software anti-patterns. <b>2017</b> , 128, 236-251		18
1137	A metaheuristic approach to solving a multiproduct EOQ-based inventory problem with storage space constraints. <b>2017</b> , 11, 1137-1154		4
1136	A variable neighborhood search algorithm for the surgery tactical planning problem. <i>Computers and Operations Research</i> , <b>2017</b> , 84, 216-225	4.6	22
1135	A meta-heuristic based goal-selection strategy for mobile robot search in an unknown environment. <i>Computers and Operations Research</i> , <b>2017</b> , 84, 178-187	4.6	9
1134	Optimal Placement of Dynamic Var Sources by Using Empirical Controllability Covariance. <b>2017</b> , 32, 240-249		16
1133	A metaheuristic approach to the dominating tree problem. <b>2017</b> , 11, 1155-1167		4
1132	A quartet method based on variable neighborhood search for biomedical literature extraction and clustering. <b>2017</b> , 24, 537-558		9
1131	Parallel variable neighborhood search for the min-max order batching problem. <b>2017</b> , 24, 635-662		22
1130	Sequential variable neighborhood descent variants: an empirical study on the traveling salesman problem. <b>2017</b> , 24, 615-633		35
1129	The multi-vehicle profitable pickup and delivery problem. <b>2017</b> , 39, 303-319		22
1128	Comparison of metaheuristics for the k-labeled spanning forest problem. <b>2017</b> , 24, 559-582		2
1127	Solving the maximum min-sum dispersion by alternating formulations of two different problems. <b>2017</b> , 260, 444-459		19

1126	Balancing stochastic two-sided assembly line with multiple constraints using hybrid teaching-learning-based optimization algorithm. <i>Computers and Operations Research</i> , <b>2017</b> , 82, 102-113	4.6	42
1125	An exact hybrid method for the vehicle routing problem with time windows and multiple deliverymen. <i>Computers and Operations Research</i> , <b>2017</b> , 83, 1-12	4.6	38
1124	A Variable Neighborhood Search heuristic for the maximum ratio clique problem. <i>Computers and Operations Research</i> , <b>2017</b> , 87, 283-291	4.6	3
1123	Gaussian model-based partitioning using iterated local search. <b>2017</b> , 70, 1-24		3
1122	An Investigation on Compound Neighborhoods for VRPTW. <b>2017</b> , 3-19		2
1121	An Empirical Study of the Multi-fragment Tour Construction Algorithm for the Travelling Salesman Problem. <b>2017</b> , 278-287		
1120	A novel data clustering algorithm based on modified gravitational search algorithm. <b>2017</b> , 61, 1-7		67
1119	Improvement-Only Heuristics. <b>2017</b> , 19-47		
1118	Nature-Inspired Computing and Optimization. <b>2017</b> ,		12
1117	Efficiency of using VNS algorithm for forming heterogeneous groups for CSCL learning. <b>2017</b> , 109, 98-108		9
1116	The electric vehicle routing problem with nonlinear charging function. <b>2017</b> , 103, 87-110		185
1115	Strategic design for dynamic multi-zone truckload shipments: A study of OTOP agricultural products in Thailand. <b>2017</b> , 135, 11-22		3
1114	A fast two-level variable neighborhood search for the clustered vehicle routing problem. <i>Computers and Operations Research</i> , <b>2017</b> , 83, 78-94	4.6	51
1113	Matheuristic for the decentralized factories scheduling problem. <b>2017</b> , 47, 668-684		7
1112	Metaheuristic design of feedforward neural networks: A review of two decades of research. <b>2017</b> , 60, 97-116		239
1111	Evaluating balancing on social networks through the efficient solution of correlation clustering problems. <b>2017</b> , 5, 467-498		14
1110	A multi-start iterated local search algorithm for the generalized quadratic multiple knapsack problem. <i>Computers and Operations Research</i> , <b>2017</b> , 83, 54-65	4.6	27
1109	Entscheidungsunterstützung in Theorie und Praxis. <b>2017</b> ,		

1108	A location-inventory model considering a strategy to mitigate disruption risk in supply chain by substitutable products. <b>2017</b> , 108, 213-224	14
1107	Automatic integer programming reformulation using variable neighborhood search. <b>2017</b> , 58, 7-14	
1106	A VNS approach for book marketing campaigns generated with quasi-bicliques probabilities. <b>2017</b> , 58, 15-22	2
1105	Multi-objective Ant Colony Optimisation in Wireless Sensor Networks. <b>2017</b> , 51-78	1
1104	DAG Scheduling in Heterogeneous Computing and Grid Environments Using Variable Neighborhood Search Algorithm. <b>2017</b> , 31, 134-173	3
1103	Scheduling preventive railway maintenance activities with resource constraints. <b>2017</b> , 58, 215-222	13
1102	A variable neighborhood search algorithm for the capacitated vehicle routing problem. <b>2017</b> , 58, 231-238	24
1101	A hybrid genetic algorithm for dynamic virtual cellular manufacturing with supplier selection. <b>2017</b> , 92, 3001-3017	13
1100	Solving a fuzzy fixed charge solid transportation problem using batch transferring by new approaches in meta-heuristic. <b>2017</b> , 58, 143-150	35
1099	Optimizing Charging Station Locations for Electric Car-Sharing Systems. <b>2017</b> , 157-172	3
1098	GVNS based heuristic for solving the multi-product multi-vehicle inventory routing problem. <b>2017</b> , 58, 71-78	2
1097	A three-phase matheuristic for the time-effective electric vehicle routing problem with partial recharges. <b>2017</b> , 58, 95-102	26
1096	Variable neighborhood search algorithms for pickup and delivery problems with loading constraints. <b>2017</b> , 58, 111-118	7
1095	Multi-objective genetic algorithm with variable neighbourhood search for the electoral redistricting problem. <b>2017</b> , 36, 37-51	20
1094	A performance study on multi improvement neighborhood search strategy. <b>2017</b> , 58, 199-206	2
1093	Novel formulations and VNS-based heuristics for single and multiple allocation p-hub maximal covering problems. <b>2017</b> , 259, 191-216	18
1092	On the aircraft conflict resolution problem: A VNS approach in a multiobjective framework. <b>2017</b> , 58, 151-158	3
1091	Application of a Basic Variable Neighborhood Search Algorithm in the Coordinated Tuning of PSS and POD Controllers. <b>2017</b> , 28, 470-481	3

1090	Drawing graphs with mathematical programming and variable neighborhood search. <b>2017</b> , 58, 207-214	1
1089	Adjoint method for parameter identification problems in models of stirred tank chemical reactors. <b>2017</b> , 123, 214-229	5
1088	Order matters – A Variable Neighborhood Search for the Swap-Body Vehicle Routing Problem. <b>2017</b> , 263, 419-445	23
1087	General Variable Neighborhood Search for the Order Batching and Sequencing Problem. <b>2017</b> , 263, 82-93	40
1086	Total completion time minimization for scheduling of two-machine flow shop with deterioration jobs and setup time. <b>2017</b> , 9, 168781401769888	2
1085	A variable neighborhood search for the network design problem with relays. <b>2017</b> , 23, 137-164	2
1084	A variable neighborhood search approach for the crew pairing problem. <b>2017</b> , 58, 87-94	2
1083	New VNP for automatic programming. <b>2017</b> , 58, 191-198	7
1082	A Survey on Modeling and Optimizing Multi-Objective Systems. <b>2017</b> , 19, 1867-1901	67
1081	Model and metaheuristics for a scheduling problem integrating procurement, sale and distribution decisions. <b>2017</b> , 259, 437-460	3
1080	Variable neighborhood search accelerated column generation for the nurse rostering problem. <b>2017</b> , 58, 31-38	11
1079	A hybrid genetic algorithm and variable neighborhood search for multi-family capacitated lot-sizing problem. <b>2017</b> , 58, 103-110	6
1078	Variable neighborhood search for optimizing the transportation of agricultural raw materials. <b>2017</b> , 58, 135-142	2
1077	The cumulative capacitated vehicle routing problem with min-sum and min-max objectives: An effective hybridisation of adaptive variable neighbourhood search and large neighbourhood search. <b>2017</b> , 101, 162-184	40
1076	Human mental search: a new population-based metaheuristic optimization algorithm. <b>2017</b> , 47, 850-887	65
1075	Vehicle routing with private fleet, multiple common carriers offering volume discounts, and rental options. <b>2017</b> , 97, 192-216	18
1074	The robust uncapacitated multiple allocation p -hub median problem. <b>2017</b> , 110, 322-332	18
1073	Network design of a transport system based on accelerating moving walkways. <b>2017</b> , 80, 310-328	17

1072	A reinforcement learning approach to parameter estimation in dynamic job shop scheduling. <b>2017</b> , 110, 75-82		112
1071	Clustering approach in maintenance of capillary railway network. <b>2017</b> , 58, 239-246		2
1070	A VNS-LP algorithm for the robust dynamic maximal covering location problem. <b>2017</b> , 39, 1011-1033		6
1069	A survey on search-based model-driven engineering. <b>2017</b> , 24, 233-294		33
1068	The probabilistic p-center problem: Planning service for potential customers. <b>2017</b> , 262, 509-520		8
1067	A Variable MIP Neighborhood Descent algorithm for managing inventory and distribution of cash in automated teller machines. <i>Computers and Operations Research</i> , <b>2017</b> , 85, 22-31	4.6	30
1066	General variable neighborhood search algorithm to minimize makespan of the distributed no-wait flow shop scheduling problem. <b>2017</b> , 11, 315-329		29
1065	Branch-and-price for p-cluster editing. <b>2017</b> , 67, 293-316		1
1064	A parallel variable neighborhood search for the vehicle routing problem with divisible deliveries and pickups. <i>Computers and Operations Research</i> , <b>2017</b> , 85, 71-86	4.6	34
1063	A spatial parallel heuristic approach for solving very large-scale vehicle routing problems. <b>2017</b> , 21, 1130-1147		12
1062	Resource Constrained Project Scheduling Optimization With Robust Objective Under Stochastic Duration Of Activities. <b>2017</b> , 239-243		1
1061	Dynamic scheduling in steelmaking-continuous casting production for continuous caster breakdown. <b>2017</b> , 55, 3197-3216		26
1060	A simulated annealing heuristic for the hybrid vehicle routing problem. <b>2017</b> , 53, 119-132		100
1059	Algorithms for job scheduling problems with distinct time windows and general earliness/tardiness penalties. <i>Computers and Operations Research</i> , <b>2017</b> , 81, 203-215	4.6	11
1058	Improving the performance of embedded systems with variable neighborhood search. <b>2017</b> , 53, 217-226		6
1057	Variable neighborhood search for reverse engineering of gene regulatory networks. <b>2017</b> , 65, 120-131		1
1056	Identification problem in plug-flow chemical reactors using the adjoint method. <b>2017</b> , 98, 80-88		3
1055	A hybrid large neighborhood search for the static multi-vehicle bike-repositioning problem. <b>2017</b> , 95, 340-363		82

1054	Less is more: Solving the Max-Mean diversity problem with variable neighborhood search. <b>2017</b> , 382-383, 179-200	26
1053	Solving the battery swap station location-routing problem with capacitated electric vehicles using an AVNS algorithm for vehicle-routing problems with intermediate stops. <b>2017</b> , 97, 102-112	120
1052	Synchronizing Trucks and Trailers in a Multiresource Problem with Variable Neighborhood Search. <b>2017</b> , 2610, 28-34	3
1051	Matheuristic for a two-echelon capacitated vehicle routing problem with environmental considerations in city logistics service. <b>2017</b> , 57, 262-276	44
1050	A blocking flow shop deteriorating scheduling problem via a hybrid chemical reaction optimization. <b>2017</b> , 9, 168781401770137	5
1049	A GRASP with iterated local search for the traveling repairman problem with profits. <b>2017</b> , 113, 323-332	20
1048	Descent search approaches applied to the minimization of open stacks. <b>2017</b> , 112, 175-186	7
1047	An Incomplete Constraint-Based System for Scheduling with Renewable Resources. <b>2017</b> , 243-261	1
1046	Variable Neighborhood Search for Integrated Planning and Scheduling. <b>2017</b> , 709-724	2
1045	Improving Mobility in Smart Cities with Intelligent Tourist Trip Planning. <b>2017</b> ,	8
1044	Instance-based algorithm selection on quadratic assignment problem landscapes. <b>2017</b> ,	5
1043	Hybrid metaheuristic for combinatorial optimization based on immune network for optimization and VNS. <b>2017</b> ,	1
1042	Dual-RAMP for the Capacitated Single Allocation Hub Location Problem. <b>2017</b> , 696-708	7
1041	An algorithmic framework for generating optimal two-stratum experimental designs. <b>2017</b> , 115, 224-249	1
1040	On biconnected and fragile subgraphs of low diameter. <b>2017</b> , 263, 390-400	6
1039	Variable neighborhood scatter search for the incremental graph drawing problem. <b>2017</b> , 68, 775-797	9
1038	Real-world flexible resource profile scheduling with multiple criteria: learning scalarization functions for MIP and heuristic approaches. <b>2017</b> , 68, 952-972	2
1037	. <b>2017</b> ,	10



1036	The 2-stage assembly flowshop scheduling problem with total completion time: Efficient constructive heuristic and metaheuristic. <i>Computers and Operations Research</i> , <b>2017</b> , 88, 237-246	4.6	24
1035	Heterogeneous surface-to-air missile defense battery location: a game theoretic approach. <b>2017</b> , 23, 417-447		11
1034	Manpower allocation and vehicle routing problem in non-emergency ambulance transfer service. <b>2017</b> , 106, 45-59		10
1033	Cellular matrix model for parallel combinatorial optimization algorithms in Euclidean plane. <b>2017</b> , 61, 642-660		2
1032	Design of an efficient hyper-heuristic algorithm CMA-VNS for combinatorial black-box optimization problems. <b>2017</b> ,		1
1031	Design and development of a hybrid ant colony-variable neighbourhood search algorithm for a multi-depot green vehicle routing problem. <b>2017</b> , 57, 422-457		61
1030	A Manufacturing Oriented Single Point Search Hyper-Heuristic Scheme for Multi-Objective Optimization. <b>2017</b> ,		3
1029	A Hybrid of Variable Neighbor Search and Fuzzy Logic for the permutation flowshop scheduling problem with predictive maintenance. <b>2017</b> , 112, 663-672		17
1028	Accelerating artificial bee colony algorithm with neighborhood search. <b>2017</b> ,		2
1027	Variable block insertion heuristic for the quadratic assignment problem. <b>2017</b> ,		2
1026	. <b>2017</b> ,		
1025	A batching-move iterated local search algorithm for the bin packing problem with generalized precedence constraints. <b>2017</b> , 55, 6288-6304		7
1024	Design of multi-product multi-period two-echelon supply chain network to minimize bullwhip effect through differential evolution. <b>2017</b> ,		2
1023	Parameter identifiability analysis and visualization in large-scale kinetic models of biosystems. <b>2017</b> , 11, 54		51
1022	A review on the coral reefs optimization algorithm: new development lines and current applications. <b>2017</b> , 6, 1-15		41
1021	Optimizing network attacks by artificial bee colony. <b>2017</b> , 377, 30-50		37
1020	An integration of mixed VND and VNS: the case of the multivehicle covering tour problem. <b>2017</b> , 24, 663-679		11
1019	A Novel Meta-Heuristic Combinatory Method for Solving Capacitated Vehicle Location-Routing Problem with Hard Time Windows. <b>2017</b> , 707-728		6

1018	Efficient local search limitation strategy for single machine total weighted tardiness scheduling with sequence-dependent setup times. <i>Computers and Operations Research</i> , <b>2017</b> , 79, 190-206	4.6	11
1017	Variable neighborhood search: basics and variants. <b>2017</b> , 5, 423-454		153
1016	Lane covering with partner bounds in collaborative truckload transportation procurement. <i>Computers and Operations Research</i> , <b>2017</b> , 77, 32-43	4.6	21
1015	Computational Intelligence. <b>2017</b> , 13-41		3
1014	Computational Intelligence in Logistics and Supply Chain Management. <b>2017</b> ,		10
1013	Extracting Summary Piles from Sorting Task Data. <b>2017</b> , 54, 398-414		12
1012	An effective heuristic for project scheduling with resource availability cost. <b>2017</b> , 257, 746-762		18
1011	An effective constructive heuristic for permutation flow shop scheduling problem with total flow time criterion. <b>2017</b> , 90, 93-107		15
1010	Glass container production planning with warm-ups and furnace extraction variation losses. <b>2017</b> , 90, 527-543		7
1009	Scalability of using Restricted Boltzmann Machines for combinatorial optimization. <b>2017</b> , 256, 368-383		11
1008	A heuristic algorithm for a single vehicle static bike sharing rebalancing problem. <i>Computers and Operations Research</i> , <b>2017</b> , 79, 19-33	4.6	74
1007	Bi-level programming modeling and hierarchical hybrid algorithm for antimissile dynamic firepower allocation problem with uncertain environment. <b>2017</b> , 20, 287-306		
1006	Two-machine flow shop scheduling problem with blocking, multi-task flexibility of the first machine, and preemption. <i>Computers and Operations Research</i> , <b>2017</b> , 79, 94-108	4.6	7
1005	A quality and distance guided hybrid algorithm for the vertex separator problem. <i>Computers and Operations Research</i> , <b>2017</b> , 78, 255-266	4.6	3
1004	The boolean quadratic programming problem with generalized upper bound constraints. <i>Computers and Operations Research</i> , <b>2017</b> , 77, 1-10	4.6	4
1003	Variable Neighborhood Search strategies for the Order Batching Problem. <i>Computers and Operations Research</i> , <b>2017</b> , 78, 500-512	4.6	41
1002	Iterated greedy algorithms for the blocking flowshop scheduling problem with makespan criterion. <i>Computers and Operations Research</i> , <b>2017</b> , 77, 111-126	4.6	70
1001	A unified matheuristic for solving multi-constrained traveling salesman problems with profits. <b>2017</b> , 5, 393-422		12

1000	Variable neighbourhood search and tabu search for a discrete time/cost trade-off problem to minimize the maximal cash flow gap. <i>Computers and Operations Research</i> , <b>2017</b> , 78, 564-577	4.6	20
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