References

1. Aarts E, Lenstra JK (2003a) Introduction. In: Aarts E, Lenstra JK (eds) Local Search in Combinatorial Optimization. Princeton University Press, Princeton, pp 1–17
2. Aarts E, Lenstra JK, eds (2003b) Local Search in Combinatorial Optimization. Princeton University Press, Princeton
3. Ahuja RK, Magnanti TL, Orlin JB (1993) Network Flows. Prentice Hall, Englewood Cliffs
4. Aldowaisan T, Allahverdi A, Gupta JN (1999) A review of scheduling research involving setup considerations. Omega 27:219–239
5. Ausiello G, d'Atri A, Saccà D (1983) Graph algorithms for functional dependency manipulation. Journal of the ACM 30:752–766
6. Avriel M, Diewert WE, Schaible S, Zang I (1988) Generalized Concavity. Plenum Press, New York
7. Aytug H, Lawley MA, McKay K, Mohan S, Uzsoy R (2005) Executing production schedules in the face of uncertainties: A review and some future directions. European Journal of Operational Research 161:86–110
8. Baker KR (1974) Introduction to Sequencing and Scheduling. John Wiley, New York
9. Bang-Jensen J, Gutin G (2002) Digraphs: Theory, Algorithms and Applications. Springer, Berlin
10. Baptiste P, Le Pape C, Nuijten W (1999) Satisfiability tests and time-bound adjustments for cumulative scheduling problems. Annals of Operations Research 92:305–333
11. Bartusch M, Möhring RH, Radermacher FJ (1988) Scheduling project networks with resource constraints and time windows. Annals of Operations Research 16:201–240
12. Beck JC (2002) Heuristics for scheduling with inventory: Dynamic focus via constraint criticality. Journal of Scheduling 5:43–69
13. Bell CE, Park K (1990) Solving resource-constrained project scheduling problems by A* search. Naval Research Logistics 37:61–84
14. Bellman R (1958) On a routing problem. Quarterly of Applied Mathematics 16:87–90
15. Berge C (1970) Graphes et Hypergraphes. Dunod, Paris

16. Blömer F (1999) Produktionsplanung und -steuerung in der chemischen Industrie: Ressourceneinsatzplanung von Batchprozessen auf Mehrzweckanlagen. Gabler, Wiesbaden

17. Blömer F, Günther HO (1998) Scheduling of a multi-product batch process in the chemical industry. Computers in Industry 36:245–259

18. Blömer F, Günther HO (2000) LP-based heuristics for scheduling chemical batch processes. International Journal of Production Research 35:1029–1052

19. Böttcher J, Drexl A, Kolisch R, Salewski F (1999) Project scheduling under partially renewable resource constraints. Management Science 45:543–559

20. Brealey RA, Myers SC (2002) Principles of Corporate Finance. McGraw-Hill, Irwin

21. Brinkmann K, Neumann K (1996) Heuristic procedures for resource-constrained project scheduling with minimal and maximal time lags: The resource-levelling and minimum project-duration problems. Journal of Decision Systems 5:129–156

22. Brucker P (1973) Die Erstellung von CPM-Netzplänen. In: Gessner P, Henn R, Steinecke V, Todt H (eds) Proceedings in Operations Research 3. Physica, Würzburg, pp 122–130

23. Brucker P, Hurink J (2000) Solving a chemical batch scheduling problem by local search. Annals of Operations Research 96:17–38

24. Brucker P, Knust S (2003) Lower bounds for resource-constrained project scheduling problems. European Journal of Operational Research 149:302–313

25. Brucker P, Thiele O (1996) A branch & bound method for the general-shop problem with sequence dependent setup-times. OR Spektrum 18:145–161

26. Brucker P, Drexl A, Möhring RH, Neumann K, Pesch E (1999) Resource-constrained project scheduling: Notation, classification, models, and methods. European Journal of Operational Research 112:3–41

27. Brucker P, Knust S, Schoo A, Thiele O (1998) A branch and bound algorithm for the resource-constrained project scheduling problem. European Journal of Operational Research 107:272–288

28. Burgess AR, Killebrew JB (1962) Variation in activity level on a cyclic arrow diagram. The Journal of Industrial Engineering 13:76–83

29. Burkard RE, Kocher M, Rudolf R (1998) Rounding strategies for mixed integer programs arising from chemical production planning. Yugoslav Journal of Operations Research 8:9–23

30. Carlier J (1989) Scheduling under financial constraints. In: Słowiński R, Węglarz J (eds) Advances in Project Scheduling. Elsevier, Amsterdam, pp 187–224

31. Carlier J, Pinson E (1989) An algorithm for solving the job-shop problem. Management Science 35:164–176

32. Carlier J, Rinnooy Kan AHG (1982) Scheduling subject to nonrenewable resource constraints. Operations Research Letters 1:52–55

33. Carravilla MA, de Sousa JP (1995) Hierarchical production planning in a make-to-order company: A case study. European Journal of Operational Research 86:43–56

34. Cesta A, Oddi A, Smith SF (2002) A constraint-based method for project scheduling with time windows. Journal of Heuristics 8:109–136

35. Chauvet F, Proth JM (1999) The PERT problem with alternatives: Modelisation and optimization. Publication interne no. 3651, INRIA

36. Christofides N, Alvarez-Valdes R, Tamarit JM (1987) Project scheduling with resource constraints: A branch and bound approach. European Journal of Operational Research 29:262–273

37. Dantzig GB, Fulkerson DR (1954) Minimizing the number of tankers to meet a fixed schedule. Naval Research Logistics Quarterly 1:217–222

38. Davis EW (1966) Resource allocation in project network models: A survey. The Journal of Industrial Engineering 17:177–188

39. Davis EW (1973) Project scheduling under resource constraints: Historical review and categorization of procedures. AIIE Transactions 5:297–313

40. Daynand N, Padman R (1997) On modelling payments in projects. Journal of the Operational Research Society 48:906–918

41. De Reyck B (1998) Scheduling Projects with Generalized Precedence Relations: Exact and Heuristic Procedures. PhD thesis, University of Leuven, Leuven

42. De Reyck B, Herroelen WS (1998a) A branch-and-bound procedure for the resource-constrained project scheduling problem with generalized precedence relations. European Journal of Operational Research 111:152–174

43. De Reyck B, Herroelen WS (1998b) An optimal procedure for the resource-constrained project scheduling problem with discounted cash flows and generalized precedence relations. Computers and Operations Research 25:1–17

44. De Reyck B, Herroelen WS (1999) The multi-mode resource-constrained project scheduling problem with generalized precedence relations. European Journal of Operational Research 119:538–556

45. De Reyck B, Demeulemeester EL, Herroelen WS (1999) Algorithms for scheduling project with generalized precedence constraints. In: Węglarz J (ed) Project Scheduling: Recent Models, Algorithms and Applications. Kluwer, Boston, pp 77–105

46. Demeulemeester EL, Herroelen WS (1992) A branch-and-bound procedure for the multiple resource-constrained project scheduling problem. Management Science 38:1803–1818

47. Demeulemeester EL, Herroelen WS (1996) An efficient optimal solution procedure for the preemptive resource-constrained project scheduling problem. European Journal of Operational Research 90:334–348

48. Demeulemeester EL, Herroelen WS (1997) Benchmark results for the resource-constrained project scheduling problem. Management Science 43:1485–1492

49. Demeulemeester EL, Herroelen WS (2002) Project Scheduling: A Research Handbook. Kluwer, Boston

50. Demeulemeester EL, De Reyck B, Herroelen WS (2000) The discrete time/resource tradeoff problem in project networks: A branch-and-bound approach. IIE Transactions 32:1059–1069

51. Doersch RH, Patterson JH (1977) Scheduling a project to maximize its net present value: A zero-one programming approach. Management Science 23:882–889

52. Domschke W, Drexl A (1991) Kapazitätsplanung in Netzwerken. OR Spektrum 13:63–76

53. Dorndorf U (2002) Project Scheduling with Time Windows. Physica, Heidelberg

54. Dorndorf U, Pesch E, Phan-Huy T (2000a) A branch-and-bound algorithm for the resource-constrained project scheduling problem. Mathematical Methods of Operations Research 52:413–439

55. Dorndorf U, Pesch E, Phan-Huy T (2000b) Constraint propagation techniques for the disjunctive scheduling problem. Artificial Intelligence 122:189–240

56. Dorndorf U, Pesch E, Phan-Huy T (2000c) A time-oriented branch-and-bound algorithm for resource-constrained project scheduling with generalised precedence constraints. Management Science 46:1365–1384

57. Dorndorf U, Phan Huy T, Pesch E (1999) A survey of interval capacity consistency tests for time- and resource-constrained scheduling. In: Węglarz J (ed) Project Scheduling: Recent Models, Algorithms and Applications. Kluwer, Boston, pp 213–238

58. Drexl A, Kolisch R (1996) Assembly management in machine tool manufacturing and the PRISMA-Leitstand. Production and Inventory Management Journal 37:55–57

59. Drexl A, Fleischmann B, Günther HO, Stadtler H, Tempelmeier H (1994) Konzeptionelle Grundlagen kapazitätsorientierter PPS–Systeme. Zeitschrift für betriebswirtschaftliche Forschung 46:1022–1045

60. Elmaghraby SE (1977) Activity Networks: Project Planning and Control by Network Models. John Wiley, New York

61. Elmaghraby SE (1995) Activity nets: A guided tour through some recent developments. European Journal of Operational Research 82:383–408

62. Elmaghraby SE, Kamburowki J (1992) The analysis of activity networks under generalized precedence relations. Management Science 38:1245–1263

63. Fest A, Möhring RH, Stork F, Uetz M (1999) Resource-constrained project scheduling with time windows: A branching scheme based on dynamic release dates. Technical Report 596, Technical University of Berlin

64. Fisher H, Thompson GL (1963) Probabilistic learning combinations of local job-shop scheduling rules. In: Muth JF, Thompson GL (eds) Industrial Scheduling. Prentice Hall, Englewood Cliffs, pp 225–251

65. Floyd RW (1962) Algorithm 97: Shortest path. Communications of the ACM 5:345

66. Franck B (1999) Prioritätsregelverfahren für die ressourcenbeschränkte Projektplanung mit und ohne Kalender. Shaker, Aachen

67. Franck B, Neumann K, Schwindt C (1997) A capacity-oriented hierarchical approach to single-item and small-batch production planning using project-scheduling methods. OR Spektrum 19:77–85

68. Franck B, Neumann K, Schwindt C (2001a) Project scheduling with calendars. OR Spektrum 23:325–334

69. Franck B, Neumann K, Schwindt C (2001b) Truncated branch-and-bound, schedule-construction, and schedule-improvement procedures for resource-constrained project scheduling. OR Spektrum 23:297–324

70. Garey MR, Johnson DS (1979) Computers and Intractability: A Guide to the Theory of NP-Completeness. Freeman, New York

71. Giffler B, Thompson GL (1960) Algorithms for solving production-scheduling problems. Operations Research 8:487–503

72. Glover F, Laguna F (1997) Tabu Search. Kluwer, Dordrecht

73. Goldfarb T, Todd MJ (1989) Linear programming. In: Nemhauser GL, Rinnooy Kan AHG, Todd MJ (eds) Optimization, Handbooks in Operations Research and Management Science Vol 1. North Holland, Amsterdam, pp 73–170

74. Goldwasser MH, Motwani R (1999) Complexity measures for assembly sequences. International Journal of Computational Geometry and Application 9:371–418

75. Golumbic MC (2004) Algorithmic Graph Theory and Perfect Graphs, Annals of Discrete Mathematics Vol 57. Elsevier, Amsterdam

76. Grinold RC (1972) The payment scheduling problem. Naval Research Logistics 19:123–136

77. Grötschel M, Lovász L, Schrijver A (1998) Geometric Algorithms and Combinatorial Optimization. Springer, Berlin

78. Günther HO (1992) Netzplanorientierte Auftragsterminierung bei offener Fertigung. OR Spektrum 14:229–240

79. Hajdu M (1997) Network Scheduling Techniques for Construction Project Management, Nonconvex Optimizations and Its Applications Vol 16. Kluwer, Dordrecht

80. Hartmann S (1998) A competitive genetic algorithm for resource-constrained project scheduling. Naval Research Logistics 45:733–750

81. Hartmann S (1999a) Project Scheduling under Limited Resources: Models, Methods, and Applications, Lecture Notes in Economics and Mathematical Systems Vol 478. Springer, Berlin

82. Hartmann S (1999b) Project scheduling with multiple modes: A genetic algorithm. Annals of Operations Research 102:111–136

83. Hartmann S (2001) Project scheduling with multiple modes: A genetic algorithm. Annals of Operations Research 102:111–136

84. Hartmann S, Drexl A (1998) Project scheduling with multiple modes: A comparison of exact algorithms. Networks 32:283–298

85. Hartmann S, Kolisch R (2000) Experimental evaluation of state-of-the-art heuristics for the resource-constrained project scheduling problem. European Journal of Operational Research 127:394–407

86. Heilmann R (2001) Resource-constrained project scheduling: A heuristic for the multi-mode case. OR Spektrum 23:335–357

87. Heilmann R (2003) A branch-and-bound procedure for the multi-mode resource-constrained project scheduling problem with minimum and maximum time lags. European Journal of Operational Research 144:348–365

88. Heilmann R, Schwindt C (1997) Lower bounds for RCPSP/max. Report WIOR-511, University of Karlsruhe

89. Held M, Wolfe P, Crowder HP (1974) Validation of subgradient optimization. Mathematical Programming 6:62–88

90. Herroelen WS (1972) Resource-constrained project scheduling: The state of the art. Operational Research Quarterly 23:261–275

91. Herroelen WS, Leus R (2004a) The construction of stable project baseline schedules. European Journal of Operational Research 156:550–565

92. Herroelen WS, Leus R (2004b) Robust and reactive project scheduling: A review and classification of procedures. International Journal of Production Research 42:1599–1620

93. Herroelen WS, Leus R (2005) Project scheduling under uncertainty: Survey and research potentials. European Journal of Operational Research 165:289–306

94. Herroelen WS, De Reyck B, Demeulemeester EL (1998) Resource-constrained project scheduling: A survey of recent developments. Computers and Operations Research 25:279–302

95. Herroelen WS, Demeulemeester EL, Van Dommelen P (1996) An optimal recursive search procedure for the deterministic unconstrained max-NPV project scheduling problem. Research Report 9603, University of Leuven

96. Herroelen WS, Van Dommelen P, Demeulemeester EL (1997) Project network models with discounted cash flows: A guided tour through recent developments. European Journal of Operational Research 100:97–121

97. Hertz A, Taillard E, De Werra D (2003) Tabu search. In: Aarts E, Lenstra JK (eds) Local Search in Combinatorial Optimization. Princeton University Press, Princeton, pp 121–136

98. Hiriart-Urruty JB, Lemaréchal C (1993) Convex Analysis and Minimization Algorithms I. Springer, Berlin

99. Horst R, Tuy H (1996) Global Optimization: Deterministic Approaches. Springer, Berlin

100. Icmeli O, Erengüç SS (1996) A branch and bound procedure for the resource-constrained project scheduling problem with discounted cash flows. Management Science 42:1395–1408

101. Icmeli O, Erengüç SS, Zappe CJ (1993) Project scheduling problems: A survey. International Journal of Operations and Production Management 13:80–91

102. Igelmund G, Radermacher FJ (1983) Preselective strategies for the optimization of stochastic project networks under resource constraints. Networks 13:1–28

103. Jacoby SLS, Kowalik JS, Pizzo JT (1972) Iterative Methods for Nonlinear Optimization Problems. Prentice Hall, Englewood Cliffs

104. Kaerkes R, Leipholz B (1977) Generalized network functions in flow networks. Operations Research Verfahren 27:225–273

105. Kallrath J (2002) Planning and scheduling in the process industry. OR Spectrum 24:219–250

106. Kamburowski J (1990) Maximizing the project net present value in activity networks under generalized precedence relations. In: Proceedings of 21st DSI Annual Meeting, San Diego, pp 748–750

107. Keeling R (2000) Project Management: An International Perspective. Macmillan, Basingstoke

108. Kelley JE (1961) Critical path planning and scheduling: Mathematical basis. Operations Research 9:296–320

109. Kelley JE (1963) The critical-path method: Resource planning and scheduling. In: Muth JF, Thompson GL (eds) Industrial Scheduling. Prentice Hall, Englewood Cliffs, pp 347–365

110. Kerzner H (2003) Project Management: A Systems Approach to Planning, Scheduling, and Controlling. Holt, Rinehart, and Winston, New York

111. Kimms A (2001a) Mathematical Programming and Financial Objectives for Scheduling Projects. Kluwer, Boston

112. Kimms A (2001b) Maximizing the net present value of a project under resource constraints using a Lagrangian relaxation based heuristic with tight upper bounds. Annals of Operations Research 102:221–236

113. Kiwiel KC (1986) A linearization method for minimizing certain quasidifferentiable functions. In: Demyanov VF, Dixon LCW (eds) Quasidifferential Calculus. North-Holland, Amsterdam, pp 85–94

114. Klein R (2000) Scheduling of Resource-Constrained Projects. Kluwer, Boston

115. Klein R, Scholl A (1998) Computing lower bounds by destructive improvement: An application to resource-constrained project scheduling. European Journal of Operational Research 112:322–346
116. Klein R, Scholl A (2000) Scattered branch and bound. Central European Journal of Operational Research 7:177–201
117. Knuth DE (1998) Sorting and Searching, The Art of Computer Programming Vol 3. Addison-Wesley, Reading
118. Kolisch R (1995) Project Scheduling under Resource Constraints: Efficient Heuristics for Several Problem Classes. Physica, Heidelberg
119. Kolisch R (1996) Serial and parallel resource-constrained project scheduling methods revisited: Theory and computation. European Journal of Operational Research 90:320–333
120. Kolisch R. (1997) Investitionsplanung in Netzwerken. Zeitschrift für Betriebswirtschaft 67:1057–1072
121. Kolisch R (2000) Integrated scheduling, assembly area-, and part-assignment for large scale make-to-order assemblies. International Journal of Production Economics 64:127–141
122. Kolisch R (2001a) Entwicklungen und Anwendungen in der Projektplanung: Ein Überblick. Betriebswirtschaftliche Forschung und Praxis 2001:212–226
123. Kolisch R (2001b) Make-to-Order Assembly Management. Springer, Berlin
124. Kolisch R, Hartmann S (1999) Heuristic algorithms for the resource-constrained project scheduling problem: Classification and computational analysis. In: Węglarz J (ed) Project Scheduling: Recent Models, Algorithms and Applications. Kluwer, Boston, pp 147–178
125. Kolisch R, Heß K (2000) Efficient methods for scheduling make-to-order assemblies under resource, assembly area, and part availability constraints. International Journal of Production Research 38:207–228
126. Kolisch R, Padman R. (2001) An integrated survey of project scheduling. Omega 29:249–272
127. Kolisch R, Schwindt C, Sprecher A (1999) Benchmark instances for project scheduling problems. In: Węglarz J (ed) Project Scheduling: Recent Models, Algorithms and Applications. Kluwer, Boston, pp 197–212
128. Kondili E, Pantelides CC, Sargent RWH (1993) A general algorithm for short-term scheduling of batch operations: I. MILP formulation. Computers and Chemical Engineering 17:211–227
129. Laborie P (2003) Algorithms for propagating resource constraints in AI planning and scheduling: Existing approaches and new results. Artificial Intelligence 143:151–188
130. Lambrecht MR, Vanderveken H (1979) Production scheduling and sequencing for multi-stage production systems. OR Spektrum 1:103–114
131. Laue HJ (1968) Efficient methods for the allocation of resources in project networks. Unternehmensforschung 12:133–143
132. Lawler EL (1976) Combinatorial Optimization: Networks and Matroids. Holt, Rinehart, and Winston, New York
133. Leus R, Herroelen WS (2004) Stability and resource allocation in project scheduling. IIE Transactions 36:667–682
134. Levy FK, Thompson GL, Wiest JD (1963) Multi-ship multi-shop workload smoothing program. Naval Research Logistics Quarterly 9:37–44

135. Lewis JP (1998) Mastering Project Management: Applying Advanced Concepts of Systems Thinking, Control and Evaluation, Resource Allocation. McGraw-Hill, New York

136. Lopez P, Erschler J, Esquirol P (1992) Ordonnancement de tâches sous contraintes: Une approche énergétique. RAIRO Automatique, Productique, Informatique Industrielle 26:453–481

137. Meredith JR, Mantel SJ (2002) Project Management: A Managerial Approach. John Wiley and Sons, New York

138. Moder JJ, Phillips CR (1964) Project Management with CPM and PERT. Van Nostrand Reinhold Company, New York

139. Möhring RH (1984) Minimizing costs of resource requirements in project networks subject to a fixed completion time. Operations Research 32:89–120

140. Möhring RH (1985) Algorithmic aspects of comparability graphs and interval graphs. In: Rival I (ed) Graphs and Orders. D. Reidel Publishing Company, Dordrecht, pp 41–101

141. Möhring RH (1989) Computationally tractable classes of ordered sets. In: Rival I (ed) Algorithms and Order. Kluwer, Dordrecht, pp 105–193

142. Möhring RH (2000) Scheduling under uncertainty: Optimizing against a randomizing adversary. In: Jansen K, Khuller S (eds) Approximation Algorithms for Combinatorial Optimization: Third International Workshop (APPROX 2000), Lecture Notes in Computer Science Vol 1913. Springer, Berlin, pp 15–26

143. Möhring RH, Schulz AS, Stork F, Uetz M (2001) On project scheduling with irregular starting time costs. Operations Research Letters 28:149–154

144. Möhring RH, Schulz AS, Stork F, Uetz M (2003) Solving project scheduling problems by minimum cut computations. Management Science 49:330–350

145. Möhring RH, Skutella M, Stork F (2004) Scheduling with AND/OR precedence constraints. SIAM Journal on Discrete Mathematics 33:393–415

146. Nägler G, Schönherr S (1989) Resource allocation in a network model: The LEINET system. In: Słowiński R, Węglarz J (eds) Advances in Project Scheduling. Elsevier, Amsterdam, pp 327–354

147. Nahmias S (1997) Production and Operations Analysis. Irwin, Homewood

148. Nesterov Y, Nemirovskii A (1994) Interior-Point Polynomial Algorithms in Convex Programming. Society for Industrial and Applied Mathematics, Philadelphia

149. Neumann K (1999a) A heuristic procedure for constructing an activity-on-arc project network. In: Gaul W, Schader M (eds) Mathematische Methoden der Wirtschaftswissenschaften. Physica, Heidelberg, pp 328–336

150. Neumann K (1999b) Scheduling of projects with stochastic evolution structure. In: Węglarz J (ed) Project Scheduling: Recent Models, Algorithms and Applications. Kluwer, Boston, pp 309–332

151. Neumann K, Schwindt C (1997) Activity-on-node networks with minimal and maximal time lags and their application to make-to-order production. OR Spektrum 19:205–217

152. Neumann K, Schwindt C (1998) A capacitated hierarchical approach to make-to-order production. European Journal of Automation 32:397–413

153. Neumann K, Schwindt C (2002) Project scheduling with inventory constraints. Mathematical Methods of Operations Research 56:513–533

154. Neumann K, Zhan J (1995) Heuristics for the minimum project-duration problem with minimal and maximal time lags under fixed resource constraints. Journal of Intelligent Manufacturing 6:145–154

155. Neumann K, Zimmermann J (1999a) Methods for resource-constrained project scheduling with regular and nonregular objective functions and schedule-dependent time windows. In: Węglarz J (ed) Project Scheduling: Recent Models, Algorithms and Applications. Kluwer, Boston, pp 261–287

156. Neumann K, Zimmermann J (1999b) Resource levelling for projects with schedule-dependent time windows. European Journal of Operational Research 117:591–605

157. Neumann K, Zimmermann J (2000) Procedures for resource levelling and net present value problems in project scheduling with general temporal and resource constraints. European Journal of Operational Research 127:425–443

158. Neumann K, Zimmermann J (2002) Exact and truncated branch-and-bound procedures for resource-constrained project scheduling with discounted cash flows and general temporal constraints. Central European Journal of Operations Research 10:357–380

159. Neumann K, Nübel H, Schwindt C (2000) Active and stable project scheduling. Mathematical Methods of Operations Research 52:441–465

160. Neumann K, Schwindt C, Trautmann N (2001) Short-term planning of batch plants in process industries. In: Kischka P, Leopold-Wildburger U, Möhring RH, Radermacher FJ (eds) Models, Methods and Decision Support in Management. Physica, Heidelberg, pp 211–226

161. Neumann K, Schwindt C, Trautmann N (2002) Advanced production scheduling for batch plants in process industries. OR Spectrum 24:251–279

162. Neumann K, Schwindt C, Trautmann N (2005) Scheduling of continuous and discontinuous material flows with intermediate storage restrictions. European Journal of Operational Research 165:495–509

163. Neumann K, Schwindt C, Zimmermann J (2003a) Order-based neighborhoods for project scheduling with nonregular objective functions. European Journal of Operational Research 149:325–343

164. Neumann K, Schwindt C, Zimmermann J (2003b) Project Scheduling with Time Windows and Scarce Resources. Springer, Berlin

165. Nübel H (1999) A branch-and-bound procedure for the resource investment problem subject to temporal constraints. Report WIOR-574, University of Karlsruhe

166. Özdamar L, Ulusoy G (1995) A survey on the resource-constrained project scheduling problem. IIE Transactions 27:574–586

167. Papadimitriou CH, Steiglitz K (1998) Combinatorial Optimization: Algorithms and Complexity. Dover, Mineola

168. Patterson JH, Słowiński R, Talbot FB, Węglarz J (1989) An algorithm for a general class of precedence and resource constrained project scheduling problems. In: Słowiński R, Węglarz J (eds) Advances in Project Scheduling. Elsevier, Amsterdam, pp 3–28

169. Pinto JK, ed (1998) Project Management Handbook. Jossey-Bass Publishers, San Francisco

170. Pinto M, Grossmann IE (1995) A continuous time mixed integer linear programming model for short term scheduling of multistage batch plants. Industrial Engineering Chemistry Research 34:3037–3051

171. Pritsker AAB, Watters LJ, Wolfe PM (1969) Multi-project scheduling with limited resources. Management Science 16:93–108
172. Radermacher FJ (1978) Kapazitätsoptimierung in Netzplänen, Mathematical Systems in Economics Vol 40. Anton Hain, Meisenheim am Glan
173. Radermacher FJ (1985) Scheduling of project networks. Annals of Operations Research 4:227–252
174. Rockafellar RT (1998) Network Flows and Monotropic Optimization. Athena Scientific, Belmont
175. Roy B (1962) Graphes et ordonnancement In: Algan M, Eddison RT, Gillis PP, Castañe Ortega JM, Roy B, Viggiani S (eds) metra No. 1, Série spéciale. METRA Paris pp 83–125
176. Roy B (1964) Physionomie et traitement des problèmes d'ordonnancement In: Carré D, Darnaut P, Guitard P, Nghiem P, Pacaud P, de Rosinski J, Roy B, Sandier G (eds) Les Problèmes d'Ordonnancement. Dunod Paris pp 1–18
177. Russell AH (1970) Cash flows in networks. Management Science 16:357–373
178. Sauer J, Suehnann G, Appelrath HJ (1998) Multi-site scheduling with fuzzy concepts. International Journal of Approximate Reasoning 19:145–160
179. Schirmer A (1998) Project Scheduling with Scarce Resources: Models, Methods and Applications. Dr. Kovač, Hamburg
180. Schneeweiß C (1995) Hierarchical structures in organisations: A conceptual framework. European Journal of Operational Research 86:4–31
181. Schneeweiß C (2003) Distributed Decision Making. Springer, Berlin
182. Scholl A (2001) Robuste Planung und Optimierung. Physica, Heidelberg
183. Scholtes S (1990) On Convex Bodies and Some Applications to Optimization. Anton Hain Meisenheim, Frankfurt
184. Schwiegelshohn U, Thiele L (1999) Dynamic min-max problems. Discrete Event Dynamic Systems 9:111–134
185. Schwindt C (1998a) A branch-and-bound algorithm for the resource-constrained project duration problem subject to temporal constraints. Report WIOR-544, University of Karlsruhe
186. Schwindt C (1998b) Generation of resource-constrained project scheduling problems subject to temporal constraints. Report WIOR-543, University of Karlsruhe
187. Schwindt C (1998c) Verfahren zur Lösung des ressourcenbeschränkten Projektdauerminimierungsproblems mit planungsabhängigen Zeitfenstern. Shaker, Aachen
188. Schwindt C (1999) A branch-and-bound algorithm for the project duration problem subject to temporal and cumulative resource constraints. In: Proceedings of the International Conference on Industrial Engineering and Production Management (IEPM '99), Glasgow, pp 515–522
189. Schwindt C (2000a) A branch-and-bound algorithm for the capital-rationed net present value problem. In: Abstracts of the 17th European Conference on Operational Research (EURO XVII), Budapest, p 89
190. Schwindt C (2000b) Local search for project scheduling with convex objective functions. In: The Seventh International Workshop on Project Management and Scheduling (PMS 2000), Osnabrück, pp 239–241
191. Schwindt C (2000c) Minimizing earliness-tardiness costs of resource-constrained projects. In: Inderfurth K, Schwödiauer G, Domschke W, Juhnke F, Klein-

schmidt P, Wäscher G (eds) Operations Research Proceedings 1999. Springer, Berlin, pp 402–407

192. Schwindt C (2001) Solution procedures for production planning and detailed scheduling in process industries. In: Proceedings of the International Conference on Industrial Engineering and Production Management (IEPM '01), Québec, pp 271–280

193. Schwindt C (2002) Scheduling of continuous production in process industries. In: The Eighth International Workshop on Project Management and Scheduling (PMS 2002), Valencia, pp 314–317

194. Schwindt C, Trautmann N (2000) Batch scheduling in process industries: An application of resource-constrained project scheduling. OR Spektrum 22:501–524

195. Schwindt C, Trautmann N (2002) Storage problems in batch scheduling. In: Chamoni P, Leisten R, Martin A, Minnemann J, Stadtler H (eds) Operations Research Proceedings 2001. Springer, Berlin, pp 213–218

196. Schwindt C, Zimmermann J (2001) A steepest ascent approach to maximizing the net present value of projects. Mathematical Methods of Operations Research 53:435–450

197. Schwindt C, Zimmermann J (2002) Parametrische Optimierung als Instrument zur Bewertung von Investitionsprojekten. Zeitschrift für Betriebswirtschaft 72:593–617

198. Selle T (1999) Lower bounds for project scheduling problems with renewable and cumulative resources. Report WIOR-573, University of Karlsruhe

199. Selle T, Zimmermann J (2003) A bidirectional heuristic for maximizing the net present value of large-scale projects subject to limited resources. Naval Research Logistics 50:130–148

200. Serafini P, Speranza MG (1994a) A decomposition approach for a resource-constrained project scheduling problem. European Journal of Operational Research 75:112–135

201. Serafini P, Speranza MG (1994b) A decomposition approach in a DSS for a resource-constrained project scheduling problem. European Journal of Operational Research 79:208–219

202. Shapiro A (1990) On concepts of directional differentiability. Journal of Optimization Theory and Applications 66:477–487

203. Shewchuk JP, Chang TC (1995) Resource-constrained job scheduling with recyclable resources. European Journal of Operational Research 81:364–375

204. Shor NZ (1998) Nondifferentiable Optimization and Polynomial Problems. Kluwer, Boston

205. Simmons DM (1975) Nonlinear Programming for Operations Research. Prentice Hall, Englewood Cliffs

206. Słowiński R (1981) Multiobjective network scheduling with efficient use of renewable and nonrenewable resources. European Journal of Operational Research 7:265–273

207. Smith-Daniels DE, Padman R, Smith-Daniels VL (1996) Heuristic scheduling of capital constrained projects. Journal of Operations Management 14:241–254

208. Söhner V (1995) Hierarchisch integrierte Produktionsplanung und -steuerung. Physica, Heidelberg

209. Sourd F, Rogerie J (2005) Continuous filling and emptying of storage systems in constraint-based scheduling. European Journal of Operational Research 165:510–524

210. Sprecher A, Drexl A (1998) Multi-mode resource-constrained project scheduling by a simple, general and powerful sequencing algorithm. European Journal of Operational Research 107:431–450

211. Sprecher A, Kolisch R, Drexl A (1995) Semi-active, active, and nondelay schedules for the resource-constrained project scheduling problem. European Journal of Operational Research 80:94–102

212. Stork F (2001) Stochastic Resource-Constrained Project Scheduling. PhD Thesis, Technical University of Berlin
http://edocs.tu-berlin.de/diss/2001/stork_frederik.htm

213. Stork F, Uetz M (2005) On the generation of circuits and minimal forbidden sets. Mathematical Programming, Series A, to appear

214. Sydsæter K, Strøm A, Berck P (1999) Economist's Mathematical Manual. Springer, Berlin

215. Tavares LV (1995) A review on the contributions of Operational Research to project management. In: Proceedings of the 14th European Conference on Operational Research, Jerusalem, pp 67–82

216. Tempelmeier H, Derstroff M (1996) A Lagrangean-based heuristic for dynamic multilevel multiitem constrained lotsizing with setup times. Management Science 42:738–757

217. Trautmann N (2001a) Anlagenbelegungsplanung in der Prozessindustrie. Gabler, Wiesbaden

218. Trautmann N (2001b) Calenders in project scheduling. In: Fleischmann B, Lasch R, Derigs U, Domschke W, Rieder U (eds) Operations Research Proceedings 2000. Springer, Berlin, pp 388–392

219. Trotter WT (1992) Combinatorics and Partially Ordered Sets: Dimension Theory. Johns Hopkins University Press, Baltimore

220. Turner JR (1999) The Handbook of Project-Based Management. McGraw-Hill, London

221. Tuy H (1995) D.C. optimization: Theory, methods and algorithms. In: Horst R, Pardalos PM (eds) Handbook of Global Optimization. Kluwer, Dordrecht, pp 149–216

222. Uetz M (2002) Algorithms for Deterministic and Stochastic Scheduling. Cuvillier, Göttingen

223. Uetz M (2003) When greediness fails: Examples from stochastic scheduling. Operations Research Letters 31:413–419

224. Vanhoucke M, Demeulemeester EL, Herroelen WS (2001) An exact procedure for the resource-constrained weighted earliness-tardiness project scheduling problem. Annals of Operations Research 102:179–196

225. Verhines DR (1963) Optimum scheduling of limited resources. Chemical Engineering Progress 59:65–67

226. Wagelmans A, van Hoesel S, Kolen A (1992) Economic lot sizing: An $\mathcal{O}(n \log n)$ algorithm that runs in linear time in the Wagner-Whitin case. Operations Research 40:145–156

227. Węglarz J (1980) On certain models of resource allocation problems. Kybernetes 9:61–65

228. Westenberger H, Kallrath J (1995) Formulation of a job shop problem in process industry. Unpublished working paper, Bayer AG, Leverkusen and BASF AG, Ludwigshafen

229. Wiest JD (1963) The Scheduling of Large Projects with Limited Resources. Unpublished PhD Thesis, Carnegie Institute of Technology, Pittsburgh

230. Younis MA, Saad B (1996) Optimal resource leveling of multi-resource projects. Computers and Industrial Engineering 31:1–4

231. Zhan J (1992) Calendarization of time-planning in MPM networks. ZOR – Methods and Models of Operational Research 36:423–438

232. Zheng S, Sun F (1999) Some simultaneous iterations for finding all zeros of a polynomial with high order convergence. Applied Mathematics and Computation 99:233–240

233. Zimmermann J (2001a) Ablauforientiertes Projektmanagement: Modelle, Verfahren und Anwendungen. Gabler, Wiesbaden

234. Zimmermann J (2001b) Personal communication

235. Zimmermann J, Schwindt C (2002) Parametric optimization for the evaluation of investment projects. In: The Eighth International Workshop on Project Management and Scheduling (PMS 2002), Valencia, pp 378–382

236. Zoutendijk G (1960) Methods of Feasible Directions. Elsevier, Amsterdam

237. Zwick U, Paterson M (1996) The complexity of mean payoff games on graphs. Theoretical Computer Science 158:343–359