

## REFERENCES

- Burke, E. K., Elliman, D., Ford, P. H., and Weare, R. F. (1996a). Examination timetabling in British universities: A survey. In *Selected papers from the First International Conference on Practice and Theory of Automated Timetabling*, pages 76–90, London, UK. Springer-Verlag
- D. Abramson. Constructing School Timetables using Simulated Annealing: Sequential and Parallel Algorithms. In *Management Science*. Vol. 37 No 1. Pages 98-113. 1991.
- T. Desef, A. Bortfeldt, H. Gehring. A Tabu Search Algorithm for Solving the Timetabling-Problem for German Primary Schools (Abstract). In *Proceedings of the International Conference on the Practice and Theory of Automated Timetabling (PATAT)*. 2006
- A. Schaerf. Tabu Search Techniques for Large High-School Timetabling Problems. In *IEEE Transactions on Systems, Management and Cybernetics: Part A*. 1996.
- T. Birbas, S. Daskalaki, E. Housos. Timetabling for Greek High Schools. In *The Journal of the Operational Research Society*, Vol. 48, No. 12. Pages 1191-1200. December 1997.
- I. X. Tassopoulos, G. N. Beligiannis. Solving Effectively the School Timetabling Problem Using Particle Swarm Optimization. In *Expert Systems with Applications* 39. Pages 6029-6040. 2012.
- P. Avella, B. D’Auria, S. Salerno, I. Vasil’ev. A computational study of local search algorithms for Italian high-school timetabling. In *The Journal of Heuristics*, Vol. 13, No. 6. Pages 543-556. December 2007
- P. de Haan, R. Landman, G. Post, H. Ruizenaar. A Four-Phase Approach to a Timetabling Problem in Secondary Schools. In *Proceedings of the International Conference on the Practice and Theory of Automated Timetabling (PATAT)*. 2007.
- Bosch, R. and Trick, M. (2005). *Search Methodologies: Introductory tutorials in optimization and decision support techniques*, chapter Integer Programming, pages 69–96. Berlin: Springer, Berlin
- Chaya Andradi, Saminda Premaratna (2016) Utilization of Time table Management system to a Medium scaled University. *International journal of modern Research in Engineering and technology (IJMRET)* 25-33. Retrieved from [www.ijmret.org](http://www.ijmret.org)
- Chen, X. and Bushnell, M. L. (1996). Efficient branch and bound search with application to computer-aided design. *Kluwer Academic Publishers*.
- Sierksma, G. (2001). *Linear and integer programming: Theory and practice*. New York: Marcel Dekker, Inc., 2nd edition.
- Ranga Prabodanie R.A. (2016). An integer Programming Model for a complex University Timetabling Problem: A case study. *Industrial Engineering and Management Systems*, 16,(pp 141-153),1598-7248,2234-6473

- Herath A.K., "Genetic Algorithm for University course Timetabling problem" (2017). Electronic Theses and Dissertations. Retrieved from <https://egrove.olemiss.edu/etd/443>
- Premasiril D.M. (2019), University Timetable scheduling using Genetic Algorithm Approach case study: Rajarata University of Sri Lanka, *Journal of Engineering Research and Application*, 8,2248-9622 (pp.30-35),doi:10.9790/9622-0812023035.Retrieved from [www.ijera.com](http://www.ijera.com).
- Samarasekara Wathsala (2019). An application of Graph coloring Model to course Time tabling problem *International journal of science and Research (IJSR)*, 8,2319-7064,(pp 1583-1591), DOI: 10.21275/ART 20203698.Retrieved from [www.ijera.net](http://www.ijera.net).
- Ekanayaka T.W., Subasinghe P., Attanayaka S., Ragel S.,Gamage A., (2019). Interlligent Time table scheduler: Comparison od Genetic, Graph coloring, Heuristic and Iterated Local search Algorithms. Retrieved from <https://www.researchgate.net/publication/341759131>.
- Ambole R.H., Hanchate D.B. (2013) School time tabling in Theory and Practice : A comparative study of Simulated Annealing and Tabu search.
- Andersson Hakon (2015). School timetabling in Theory and practice : A comparative study of Simulated Annealing and Tabu Search.
- Veenstra M, Vis I.F.S (2016). School time tabling problem under disturbances, *Computers and Industrial Engineering*, doi:http://doi.org/10.1016/j.cie.2016.02.01
- Kadam V.J, Yadav S.S. (2016). Accademic Time table scheduling: Revisited. *International Journal of Research In science and Engineering*. 417-423, 2394-8299, Retrieved from [www.org/editor@ijrise.org](http://www.org/editor@ijrise.org)
- Ahmad I.R., Sufahani S. Ali M. and Siti, Razali N.A.M (2017) A heuristics approach for classroom scheduling using Genetic Algorithm techniques. IOP conf. series: *Journal of physics: conf.series* 995 (2018) 012050. doi: 10.1088/1742-6596/995/1/012050
- Andrade P.R. de,L, Steiner M.T.A, Goes A.R.T (2019).Optimization in time tabling in schools using a mathematical model, local and Iterated local search procedures. *Gestao and Producao*, 26(4), e3421, <http://doi.org/10.1590/0104-530X3241-19>
- En.wikipedia.org/wiki/Graph coloring
- Ganguli R., Roy S. (2017). A study on course timetable scheduling using Graph coloring Approach. *International Journal of computational and Applied Mathematics*, 12, 1819-4966, pp.469-485.
- Deo N. (1990), graph theory with applications to engineering and computer science, Prentice. Hall of India.
- J.E Smith, T. Fogarty, "Operator and paramrter adaptation in genetic algorithms" soft computing a fusion of foundations, methodologies and applications 92, 81-87,(1997)
- M.Mitchell, C.E Taylor Evolutionary computation An overview. *Annu.Rev. Ecol syst* 30, 593-616 (1999)

- S. Petrovic, E.K. Burke 2004 university time tabling in leung (ed) Handbook of scheduling: Algorithms models and performance Analysis. Chapter 45 CRC press.
- A Abdullah, H. Turabieh, "Generating university course time table using genetic algorithm and local search" proc 3<sup>rd</sup> Int conf Hybrid Inform. Tech pp. 254-260
- D. Mitta, H. Doshi, M.Sunasra, R. Nagpur, Automatic time table generation using Genetic Algorithm, Int J. Adv, Res Comput. Commun. Eng 4(2), 245-248 (2015)
- En.wikipedia.org/wiki/Genetic-algorithm
- Herath A.K. (2017), Genetic Algorithm for university course Timetabling problem, electronic theses and Dissertations, 443.
- En.wikipedia.org/wiki/simulated annealing.
- Metropolis W. Rosenbluth A. Rosenbluth M. Teller A, Teller E, (1953). Equation of state calculations by fast computing machines, J chem.Phys 21, pp. 1087-1092.
- Kirkpatrick S., Gelatt Jr, C.D Vecchi M.P. (1983) Optimization by simulated annealing, Science 220 pp 671-680.
- Cerny V. (1985) A thermodynamical approach to the travelling salesman problem: an efficient simulation algorithm J. Optimisat. Theory Applic 45 pp 41-51.
- Vecci M.P. Kirkpatrick S (1983) Global wiring by simulated annealing, IEEE trans computer – Aided Design CAD-2, pp 215-22.
- Lundy M (1985) Application of the simulated annealing algorithm to combinatorial problems in statistics Biometricka 72, pp 191-198.
- Aarts E.H.L, Van Laarhoven P.J.M (1985) statistical cooling: ab general approach to combinatorial optimization problems, Philips J Res 40 pp 193-226.
- Heynderickx I, de Raedt H, Schoemaker (1986) Simulated annealing method for the determination of spin Hamiltonian parameters from electron spin resonance data, J Magnet Resonance 70 pp 134-139.
- Wegener I. (2004) Simulated Annealing Beats Metropolis in Combinatorial Optimization Electronic colloquium on computational complexity Report No 89.
- S.C Chu and H.L Fang "Genetic Algorithms Vs Tabu search in Timetable scheduling", Third International Conference on knowledge – Based Intelligent Engineering system, Australia, pp. 492-95, 1999.
- D. De Werra and A. Hertz "Tabu search techniques A tutorial and an application to neural networks" OR spectrum, pp 131-141,1989.

- G.M. White, B.S Xie and S. Zonjic “using tabu search with longer- term memory and relaxation to create examination time tables”, *European Journal of Operational Research*, vol 153, no 16, pp 80-91. (2004)
- N Hussin, “Tabu search based hyper heuristic approaches for examination timetabling”, Ph.D. thesis, Department of computer science, University of Nottingham, 2005.
- S. Abdullah, S. Ahamadi, E.K. Burke, M. Dror and McCollum, “A tabu based large neighborhood search methodology for the capacitated examination time tabling problem” *Journal of the Operational Research Society*, vol 58, pp 1494-1502,2007.
- F.Glover and M.Laguna, *Tabu search*, Norwell M.A:Kluwer Academic publish 1997.
- F.Glover, E. Taillard, M. Laguna and D. deWerra “Tabu search” *Annals of Operations Research* vol 41, 1993.
- J.Thompson and K. Dowsland,”Variet of simulated annealing for the examination time tabling problem”,*Annals of operations Research* vol 63, pp 105-128, 1996.
- C. Valouxis, E. Housos. Constraint programming approach for school timetabling. In *Computers and Operations Research*. Vol 30. Pages 1555-1572. 2003.
- Y. Liu, D. Zhang, S. C. H. Leung. A Simulated Annealing Approach with a new Neighbourhood Structure for the Timetabling Problem. In *Proceedings of GEC 2009, First ACM/SIGEVO Summit on Genetic and Evolutionary Computing*. Pages 381-386. 2009.
- Qu, R., Burke, E., and McCollum, B. (2009a). Adaptive automated construction of hybrid heuristics for exam timetabling and graph colouring problems. *European Journal of Operational Research*, 198(2):392–404.
- Department of Education – Southern Province, [www.spedu.sch.lk](http://www.spedu.sch.lk)
- Ministry of Education, [www.moe.gov.lk](http://www.moe.gov.lk)
- Department of Examination, [www.donetes.lk](http://www.donetes.lk)
- Southern Provincial Ministry of Education, Land and Land Development, Highways and information, [www.edumin.sp.gov.lk](http://www.edumin.sp.gov.lk)
- National Institute of Education, [www.nie.lk](http://www.nie.lk)
- Department of census and statistics, [www.statistics.gov.lk](http://www.statistics.gov.lk)