

New Lower Bounds for Van der Waerden Numbers

Using Genetic algorithm

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Abstract

Genetic algorithm is a good tool for finding the global minimum in many discrete problems. In particular, it has proven itself in problems where there is no any apriori information about the possibilities of narrowing the search, or the specifics of the problem do not involve such. This work describes the procedure of using a genetic algorithm as applied to the search of van der Waerden numbers. Some new lower bounds of van der Waerden numbers were found using this procedure.

1 Introduction

Van der Waerden's theorem states that for any positive integers r and k there exists a positive integer N such that if the integers $\{1, 2, \dots, N\}$ are colored, each with one of r different colors, then there are at least k integers in arithmetic progression all of the same color. The smallest such N is the van der Waerden number $W(r, k)$. Van der Waerden Numbers are quite difficult to calculate, at the time of writing the article, the exact values are known only for 7 van der Waerden numbers, and for the rest of the numbers only bounds are known. To prove the lower bound of a van der Waerden number it is sufficient to get a certificate of this number, i. e., a sequence of numbers $\{1, 2, \dots, N\}$ of r colors, and not having same-coloured arithmetic progressions of length k . Then $N+1$ will be the lower bound of $W(r, k)$ number.

Genetic algorithm is an evolutionary algorithm of global optimization similar to natural selection in nature. All actions are produced by the algorithm over a population of species, each of which has a value of adaptability function. Each species is some kind of solution to the problem, the better the solution, the higher the adaptability function value. One work cycle of the algorithm is called generation. The cycle consists of 3 main stages: application of genetic operators, assessment and selection in a new generation. When genetic operators are applied, new species from the initial population are generated, being a combination of the initial population species. Most often, crossing and mutation are applied as genetic operators. During crossing 2 random species are selected from the population, parts of the first and the second species are taken in a random ratio and combined into a new species that goes to the next stage. During mutation a random species is selected and a random number of its randomly selected genes is modified, and then, this new species goes to the next stage. The second stage is the assessment of new species. At this stage the adaptability function value is calculated for all resulted species. The next stage is the selection in a

new generation. The selection is performed on the old population species and the new ones based on genetic operators application. A roulette-wheel selection method is often used. A sector on the roulette wheel is segregated for each species. The size of this sector is proportional to the adaptability function value. Then, the roulette is spun as many times as the number of species in the initial population. The species at which the roulette wheel stopped goes to a new population. Some species in the new population may be represented by several specimens. The algorithm cycles result in a gradual displacement of the old, less adapted species from the population by the new, more adapted ones. The species with the best adaptability function value is a solution found by the genetic algorithm. Achieving a certain limit value of the adaptability function of the best species in the population or achieving a certain number of generations may be the stop criteria.

2 Methodology

To apply a genetic algorithm to the search of van der Waerden numbers it is necessary to define the species representation and the adaptability function. As stated above, to search for a lower bound of a van der Waerden number, it is necessary to find its certificate. The certificate is a sequence of numbers $\{1, 2, \dots, N\}$ of r colours. Thus, in our case, a species is an array of colours of N length. And a gene is an element of this array. One gene may take on values $0..r-1$, which corresponds to all r colours. For each gene a $\log_2(r)$ bit is set, and rounded up. All operations involving genes are performed according to r module. According to this representation, an adaptability function has to be created. The function returning the number of progressions into species was used as the adaptability function. The fewer is the number of progressions, the more adapted is a species.

3 Results

Van der Waerden number	Old Lower Bounds	New Lower Bounds
$K = 3$		
$W(7, 3)$	> 223 [1*]	> 273
$W(8, 3)$	> 223 [1*]	> 354
$W(9, 3)$	> 223 [1*]	> 454
$W(10, 3)$	> 383 [2]	> 593
$W(11, 3)$	> 383 [2*]	> 731
$K = 4$		
$W(7, 4)$	> 9778 [3*]	> 9823
$K = 5$		
$W(5, 5)$	> 98740 [1]	> 98741
$W(6, 5)$	> 98748 [1]	> 98754
$K = 6$		
$W(5, 6)$	> 540025 [1]	> 540027

* borders were established for smaller number of colors

References

- [1] SAT@Delft web page <http://www.st.ewi.tudelft.nl/sat/waerden.php> , 2016
- [2] Daniel Monroe, web page <http://vdwnumbers.org/> , 2016
- [3] John, R. Rabung, Some Progression-free Partitions Constructed Using Folkman's Method. In Canadian Mathematical Bulletin Vol. 22 (1), pages 87-91, 1979

Appendix

Certificate $W(7, 3) > 273$

345336552346112211505362002016313465310060525420363423162242143123466146412446012062553146166020
410115145350345050323326055410023525443413210353550325056422326313423162040143123465146362446212
062663146616022412155145400145340521516655160313322443063056611364620550452360010

Certificate $W(8, 3) > 354$

417730412416034145723115270573502122744164176046314766123512330022566505066405324230337345201535
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Certificate $W(9, 3) > 454$

381514207543471108316488510523285638615742354741630215477558508865532722806230080362277224404461
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Certificate $W(10, 3) > 593$

441668147332625181275308603192616474056780678543005001165571889726385165497034144063088395229638
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59578417032941490

Certificate $W(11, 3) > 731$

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Certificate $W(7, 4) > 9823$

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Certificate W(5, 5) > 98741

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