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OptWorks is a collection of eight Microsoft Excel-based optimizers for use in solving optimization problems. The optimizers are all evolved using a genetic algorithm. They can be used in a wide variety of applications, including: Strategic Decision Making - simulating a complex decision tree Design of Experiments - optimizing a design space Economic or Environmental Modeling - reducing cost Pricing - selecting a price point that maximizes expected profit All the drivers in OptWorks are based on the same underlying evolutionary algorithm, which presents a fairly complete set of options for search-space exploration. AutoGA (Auto Genetic Algorithm) AutoGA is a simplified Genetic Algorithm (GA) for non-experienced users. This driver is well suited for applications in which the problem is quite simple, in which there is a large number of potential solutions, and in which the large number of candidate solutions can be handled by a single Excel workbook. AutoGA is able to produce the best solution quickly by applying a limited number of operators to the problem. AutoGA is available in two modes: Single Objective: Optimizes the objective function(s). The results of AutoGA are a list of all the possible combinations, also referred to as individuals, that are evaluated for the objective(s). Multi-Objective: Optimizes a set of objectives simultaneously. The results of AutoGA are a list of all the possible combinations, also referred to as individuals, that are evaluated for a set of objectives. The following features differentiate AutoGA from the other drivers: It is a simplified GA that only implements the simplest of the genetic operators. It is capable of handling small numbers of candidate solutions and large numbers of evaluations. It is capable of optimizing multiple objective functions simultaneously, not just one or two objective functions at a time. The following are the general description of the autoGA drivers and their specific features: AutoGA Drivers Single Objective The objective function is either a single objective function to maximize or minimize, or it is a set of the same objective functions that are optimized simultaneously. The objective functions used must be numeric. Multi-Objective The objective function is the set of objective functions that are optimized simultaneously. Objective functions must be numeric. Solutions - Number of Solutions or number of Candidates The number of solutions or candidate solutions that can be handled by the driver is controlled by the number of heuristics defined for the driver.

The default setting for number of solutions

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The OptWorks driver is intended for use with Excel's Solver graphical user interface (GUI) and is available on the Excel Addins/Manuals tab of the Excel Help menu (File | Help | Add-ins | Add-in manager | OptWorks | Options). The driver is designed to provide Excel with a fast and stable means of calculating numerical derivatives and applying the simplex algorithm for non-linear optimization. The driver allows the user to define the range, minimum and maximum values for the decision variables and a straightforward default solution (based on classical simplex methods) may be automatically calculated and presented. The driver handles optimization problems with integer variables for which Excel's numerical gradient-based Solver optimizer is not as efficient as one would like. Users can customize and fine-tune the driver by specifying how it operates and what conditions will result in an automatically calculated default solution. OptWorks Overview: OptWorks is a suite of Excel drivers for the optimization algorithm driver in Excel. The drivers are all based on Adaptive Simplex, a simplified form of the classical Simplex method. (1) Adaptive Simplex: Basic Structure: An adaptive simplex algorithm begins with an initial set of decision variables, D(0), values of the decision variables, D(0), and objective function values, F(0). These variables and corresponding function values are arranged in a two-dimensional rectangular array as an initial simplex (Figure 1). Each iteration of the algorithm proceeds as follows: 1) Replace D(n) with D(n-1) and F(n) with F(n-1). The new D(n) values are calculated by scaling the corresponding D(n-1) values by the factor exp(1-n/t) where t is a user-defined parameter. 2) Find the new minimum for each D(n) independently. If the new minimum is less than the previous minimum, then D(n) is set to the new minimum. Otherwise, D(n) is set to the previous value. 3) Do the same for the F(n) values. 4) Repeat steps 1 through 3 until convergence (defined as the fraction of decision variables set to the new minimum being greater than a user-defined convergence threshold). Figure 1. Initial simplex arrangement of D(0) and F(0) values. Adaptive Simplex - Higher-Order Derivatives: Adapt 09e8f5149f

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OptWorks is a great software that comes with a suite of eight optimizers for use in Microsoft Excel. Each driver component has a particular benefit or utility to different classes of problems. The individual drivers in the current release are: Genetic Algorithm (GA) AutoGA - a simplified GA for non-experienced users Simulated Annealing (SA) AutoSA - a simplified SA for non-experienced users Coordinate Pattern Search (with or without a Compass Search option) Grid Search Random Walk Random Search The optimization algorithms in the OptWorks suite complement the built-in gradient-based optimizer in Excel (Solver), and are useful for a wide variety of complex optimization problems in which the design space may be non-smooth or discontinuous or in which some or all of the independent variables may be integers instead of continuous variables. Genetic Algorithm (GA)OptWorks product description: OptWorks is a great software that comes with a suite of eight optimizers for use in Microsoft Excel. Each driver component has a particular benefit or utility to different classes of problems. The individual drivers in the current release are: Genetic Algorithm (GA) AutoGA - a simplified GA for non-experienced users Simulated Annealing (SA) AutoSA - a simplified SA for non-experienced users Coordinate Pattern Search (with or without a Compass Search option) Grid Search Random Walk Random Search The optimization algorithms in the OptWorks suite complement the built-in gradient-based optimizer in Excel (Solver), and are useful for a wide variety of complex optimization problems in which the design space may be non-smooth or discontinuous or in which some or all of the independent variables may be integers instead of continuous variables.Genetic Algorithm (GA)Why we like it: This is a very powerful algorithm, capable of performing quick optimization on complex problems. It can be both greedy and stochastic. However, it doesn't perform well with many discrete variables, unlike Nelder and Mead's "Simplex" method. Why we don't like it: It can be prone to getting stuck in local optima, and has a very difficult time doing gradient descent. Therefore, on problems of medium complexity, it's usually no better than a very smart random walk. If you don't specify an inital solution, it will pick a random one. Sometimes, this will do no better than doing a random walk. Used

What's New In?

The Optimization Algorithms (OptWorks) module uses three types of algorithms to search the solution space. The algorithms are The original release of OptWorks for Excel 2002 is supported for two years. But for Exslt 2013, we have updated the OptWorks to meet the new XSLT standard. We have also added support for other types of problems that use the XSLT extension functions and capabilities. OptWorks 3.0 is supported for two years. This release does not support Excel 2016. OptWorks for Excel 1.0 was released in the year 2001 and supported for two years only. So for Exslt 2013, we have made new functionality, and added support for new XSLT extension functions and capabilities. Numerical Optimization is a menu of functions providing a diverse set of tools for solving optimization problems. While the majority of the routines in Numerical Optimization focus on minimizing functions, many other classes of problems are readily addressed by our functions. Users are likely to find the following frequently used functions of interest. Smallest Value: Finds the smallest value for a one-dimensional parameter vector. Nearest: Finds the values of the parameters for which the expression E(x) is a minimum or a maximum. Construct Minimum: Finds the minimum of a function E(x) over a specified domain. Construct Maximum: Finds the maximum of a function E(x) over a specified domain. Continuous Ranges: Finds a range for the parameter values for which the function E(x) is a minimum or a maximum. Continuous Values: Finds a function of a single variable E(x) for which the parameter is the value that minimizes the function. Continuous and Integer: Finds a function of a single variable E(x) for which the parameter is the value that minimizes the function and for which the domain of the argument is restricted to integer values. Discrete Ranges: Finds the range of the parameter values for which the function E(x) is a minimum or a maximum. Discrete Values: Finds a function of a single variable E(x) for which the parameter is the value that minimizes the function. It is the function to search the paths from one of the input values x0 to the output values y0. In order to calculate the distances, the inverse function is calculated first. Then the signs of these distances are used to

System Requirements For OptWorks:

OS: Win7, Win8, Win10 Processor: Intel 2.1 GHz or greater Memory: 2 GB RAM Graphics: NVIDIA graphics card with at least DirectX 11 DirectX: Version 11 Internet: Broadband Internet connection required Storage: 10 GB available space Sound card: Direct X compatible sound card. Disc: One CD-ROM with 8.3 MB of dataQ: What's the difference between "of interest" and "at issue"?

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