LOGIC EVOLVED TECHNOLOGIES

P.O. BOX 1807, SANTA FE, NM 87507-1807

WWW.LOGICEVOLVED.COM

Announcing *LETools*© Software for Advanced Decision Analysis

Logic Evolved Technologies is proud to announce the upcoming release of the ***LETools***© software suite. **LETech** has been licensed by Los Alamos National Laboratory to commercialize the *LEDTools* decision analysis software. The new version of the software – ***LETools***© – completely rewritten and with new, advanced features will be available in Spring 2007.

LEDTools was developed at Los Alamos to implement the Logic Evolved Decision (LED) analysis methods developed by the founders of **LETech**. Features of *LEDTools* include:

- *An advanced user interface to make the construction of Logic Gate Trees fast and efficient.*
- *A variety of logic gates to express relationships concisely*
- *Implementation of nodal and path-dependent attribute mathematical operations*
- *Simplified evaluation of large multi-step Markov models with complex dependencies*
- *Rapid design of large inferential models and extensive support for approximate reasoning evaluation*
- *Multiple pre- and postprocessors for data input and analysis*

LETools© extends *LEDTools* in a number of significant ways. The new software utilizes updated technology including a centralized database, incorporates improvements in the user interface, and lays the groundwork for future integration capabilities. ***LETools***© is a Windows-based application that requires Windows 2000 or higher. The software is installed and launched from a PC on the same local network as the Database Server. The Database Server runs Microsoft SQL Server 2005. Important improvements enabled by the redesigned code architecture include:

- *Integration of multiple LGTs at a project level. All trees in a project are able to share data, logic structures, including replicants as well as class/descriptor and attribute properties.*
- *Check in / check out and use case functions allow multiple users to develop and perform analyses in parallel.*
- *Path solutions are stored in data base format allowing for advanced path analysis and interfacing with external programs.*

- *The improved user interface lets most nodal data be displayed in a single view. Tree construction is faster. Paths can be visualized within the LGT structure.*
- ***LETools©** s has a completely redesigned interface for working with classes and attributes. Markov dependencies can be defined on the fly for individual nodes.*
- *Data is contained in a project-level database eliminating the need for Excel-based CSV files and providing a standard interface for importing and exporting information.*
- *The implementation of replicants – invented for LEDTools, has been completely re-engineered. Replicants now function as templates and can be designated as unique, allowing for improved digraph representations*
- ***LETools©** is compatible with existing LEDTools models. It can import existing models and solutions can be exported as .pth files compatible with existing LEDTools post-processors.*

With ***LETools©*** complex models can be built faster and more efficiently, making decision analysts more productive and the results of their analyses of greater value to decision makers.

*For further information on **LETools©** please contact:*

Dr. Stephen Eisenhawer

505-660-2839

seisenhawer@logicevolved.com

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