Title (en)

SYSTEM AND METHOD FOR OPTIMIZATION AND SIMULATION ENVIRONMENT

Title (de)

BENUTZERSCHNITTSTELLE FÜR DIE ERLEICHTERUNG, ANALYSE UND VERWALTUNG VON RESSOURCENVERBRAUCH

Title (fr)

SYSTEME ET PROCEDE D'ENVIRONNEMENT D'OPTIMISATION ET DE SIMULATION

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Abstract (en)

[origin: WO0104822A2] A system and method for optimized decision-making for e-commerce. A system architecture for off-line, proactive decisions also supports performing simulations prior to deploying off-line or on-line decisions. There are four sections to the architecture: experiment design, which provides tools for creating and deploying experiments to test various combinations of decision values in preparation for modeling results; a model-building section provides tools for creating and deploying mathematical models whose purpose is to encapsulate data and results in a form that may be used to make future decisions; a decision-making section which provides tools for creating and deploying optimized decision answers; and a tracking section which provides tools for recording the results of experiments deployed in the experiment design section and the decisions deployed in the decision-making section. The system architecture for on-line, reactive decisions is a modification of the off-line system architecture. On-line applications are usually built to serve other purposes besides decision-making. Therefore, the decision-making process needs to be embedded in the applications. The transforms and rules may be built with the off-line system architecture then deployed to the on-line application. The combination of the off-line and on-line architectures may allow for building closed-loop systems. The off-line system architecture may be used to build a system for executing experiments and decisions. The on-line system architecture may be used to embed the experiment and decision execution in an on-line web application. The combination becomes closed-loop when the results may be captured and used to drive future decisions.

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