TITLE OF INVENTION: NETWORK-BASED AUTOMATED PREDICTION MODELING

ABSTRACT

Methods, systems, and computer programs are presented for generating action scores based on the performance of entities to determine action probabilities. One method includes an operation for accessing data comprising transactions exchanged between entities. The method further includes generating performance values for each entity based on the data, and generating, for each entity, an action score that is an indication of past performance of the entity with respect to the performance values. The method further includes receiving a request, from a user, for action probabilities regarding an event associated with a first entity, each action probability being a probability that another entity responds to the event within a predetermined time frame, determining related entities associated with the event, and determining the action probability for each entity based on the action score of the related entity. The action probabilities are presented within a graphical user interface.

FIG. 5B