

Claims

1. A system for executing a selection from a dynamically-generated electronic database comprising:

5 the dynamically-generated electronic database comprising:

a selector engine having at least one computer processor configured for:

creating selection parameters according to a statistical model for
weighting investment factors including: desirability of one or more financial
instruments, and entered user selection preferences or objectives for financial
10 instruments;

creating one or more investment portfolios of financial instruments
based on the selection parameters; and

converting the investment portfolios data to output data representing
trade instructions of financial instruments;

15 a deep learning decision engine comprising one or more neural networks trained to
provide input to the selector engine to overweight one or more of the investment factors in
the creation of the selection parameters for enhancing predictability of returns of the
investment portfolios; and

20 an investment sharing and democratization module having at least one computer
processor configured for:

accessing one or more invention portfolio data of other users of the system to
generate a specified target investment portfolio adjustable by a degree of imitation of
the one or more invention portfolio data of the other users, and

25 generating from the specified target investment strategy an additional input to
the selector engine to overweight one or more of the investment factors in the creation
of the selection parameters.

2. The system of claim 1, wherein the deep learning decision engine input to the selector
engine comprises one or more estimated weights to investment factors; and one or more
30 diversification of investment portfolio by selecting alternative financial instruments that have
little relationship with current financial instruments in the investment portfolio but are most
similar in one or more characteristics.

3. The system of claim 1, wherein the deep learning decision engine neural networks comprising at least a nonlinear autoregressive recurrent neural network (NARX) with exogenous input.
- 5 4. The system of claim 1, wherein the deep learning decision engine neural networks comprising at least a long short-term memory (LSTM) neural network.
5. The system of claim 1, further comprising:
a portfolio modeler having at least one computer processor configured for executing a
10 performance simulation of an investment portfolio; and
a portfolio stress test engine having at least one computer processor configured for introducing one or more market stress scenarios in the performance simulation of an investment portfolio by the portfolio modeler.
- 15 6. The system of claim 1, further comprising a portfolio monitoring engine for:
continuously monitoring market prices of one or more financial instruments in the one or more investment portfolios;
generating a take profit trade order signaling a sale of a financial instrument having market price reaching at or above a defined take profits level price;
20 continuously calculating a stop losses sell-trigger price and a stop losses limit sell price of a financial instrument, wherein the stop losses sell-trigger price and the stop losses limit sell price move in proportion with a rising market price of the financial instrument, and wherein the stop losses sell-trigger price and the stop losses limit sell price remain unchanged with a falling market price of the financial instrument; and
25 generating a stop losses trade order signaling a sale of a financial instrument having market price reaching at or below stop losses sell-trigger price;
wherein the portfolio monitoring engine prevents accidentally short-selling a financial instrument due to volatile market when both take profits level price and stop losses limit sell price are set;
30 wherein when either the take profit trade order or stop losses trade order on a financial instrument is fully executed, any remaining pending trade order on the financial instrument is canceled;

wherein when either the take profit trade order or stop losses trade order on a financial instrument is partially executed, any remaining pending trade order on the financial instrument is reduced proportionately by the partially executed amount; and

5 wherein when either the take profit trade order or stop losses trade order on a financial instrument is canceled before execution, any remaining pending trade order on the financial instrument is canceled.

7. The system of claim 1, wherein the investment sharing and democratization module is further configured for:

10 matching and suggesting investment strategies to users
allowing an investment strategy of a creator to be licensed by one or more licensees,
and followed by one or more followers;
propagating changes in the investment strategy made subsequently by the creator to
its followers;
15 allowing referral by an influencer one or more investment strategies to the followers;
tracking each of the users' contributions to fees generated;
computing rewards for the users;
reconciling and splitting the fees generated to the users who contributed to the fees
generated according to an agreed ratio; and
20 generating and providing data analytics to the users.

8. The system of claim 1, further comprising:
a market visualization and big data analytics engine configured for:
continuously scanning and retrieving non-financial data from traditional news
sources and social media sites;
5 processing, by a machine learning and natural language processing (NLP)
module, the non-financial data for sentiment analysis, comprising:
segregating the non-financial data into separate information pieces and
generating sentiment analytical parametric results on each information piece;
wherein the sentiment analytical parametric results include:
10 industry and country averages for assessing one's financial position in
comparison with peers'
news flow for gauging how widely distributed is a piece of news; and
news readership for evaluating how likely a piece of news would have a
positive or negative impact.

15 9. The system of claim 1, wherein market visualization and big data analytics engine
further comprises:
a heatmap user interface configured to provide a high-level view display at a single
glance of one of a plurality of variables;
20 wherein the plurality of variables comprises: country, industry, company fundamental
data, equity price performance, and sentiment.