

CLAIMS

1. A collective intelligence convergence system comprising:
 - an expert opinion management unit which receives and stores expert
5 opinion data such as an opinion on agreement or opposition to a presented
issue, at least one ground for the opinion, description of the opinion, and the like,
which are transmitted by at least one participating expert;
 - a background knowledge management unit which provides participants
with at least one expert opinion data received by the expert opinion
10 management unit to classify the provided expert opinion data into at least one
piece of required reading opinion data and at least one piece of selective
reading opinion data based on consent and non-consent data to the expert
opinion data and score data assigned to the expert opinion data, which are
input by opinion presentation participants of the participants and stores the
15 classified data as a background knowledge data about the issue;
 - a participation data management unit which provides the background
knowledge data stored in the background knowledge management unit to the
opinion presentation participants to allow the opinion presentation participants
to read the background knowledge data and to input opinion presentation
20 participant opinion data including consent or non-consent data to the input
required reading opinion data and selective reading opinion data and score data
thereof and which receives the opinion presentation participant opinion data to
process the received participant opinion data as collective intelligence
convergence data; and
 - 25 an expert opinion ranking management unit which determines a ranking
based on the opinion presentation participant opinion data stored in the
participation data management unit to update the required reading opinion data
and the selective reading opinion data based on the ranking and provides the
updated data to the background knowledge management unit,
 - 30 wherein the collective intelligence convergence data is formed by setting
required reading opinion data and selective reading opinion data of agreement

and opposition opinions on the expert opinion data of the agreement or opposition opinion on the issue to a predetermined number, respectively, representing consent, non-consent, and scores thereof of the required reading opinion data and the selective reading opinion data for the agreement and opposition opinions input by the opinion presentation participants, calculating average values of the scores of the required reading opinion data and selective reading opinion data of each opinion presentation participant, and deriving opinion of each of the opinion presentation participants based on a result of comparing an average score for the agreement opinion and an average score for the opposition opinion.

2. The collective intelligence convergence system of claim 1, further comprising a minority opinion management unit which receives a small number of consents by the participants or the opinion presentation participants, but gives a ranking rising position to an opinion having a high score.

3. The collective intelligence convergence system of claim 2, wherein the opinion managed by the minority opinion management unit is at least one piece of the selective reading opinion data.

4. The collective intelligence convergence system of claim 1, further comprising an opinion history management unit which provides information data on a source of the corresponding opinion data and a rebuttal or supplementary opinion when the opinion presentation participants read the required reading opinion data and the selective reading opinion data.

5. The collective intelligence convergence system of claim 1, further comprising a result verification management unit which generates a predetermined form of a report based on the collective intelligence convergence data stored in the participation data management unit to provide the generated report to an issue provider and provides the issue provider with the collective

intelligence data forming the basis of the report so as to be verified by the issue provider.

5 6. The collective intelligence convergence system of claim 1, wherein the updating of the required reading opinion data and the selective reading opinion data by the expert opinion ranking management unit is performed in real time.

10 7. The collective intelligence convergence system of claim 1, wherein the expert opinion management unit provides an opinion presentation form to the expert terminals of the experts, and the opinion presentation form includes: an opinion summary input portion containing a predetermined number of characters for the agreement or opposition opinion on the issue therein; key ground input portions containing key grounds on the agreement or opposition
15 opinion by the predetermined number therein; and a detailed description input portion containing a detailed description of the agreement or opposition opinion on the issue.

20 8. A collective intelligence convergence method comprising the steps of:

 receiving, by a management computer, an agreement or opposition opinion on a presented issue from a predetermined number of related-field experts on the presented issue as expert opinion data including key grounds thereof and detailed description;

25 receiving, by the management computer, opinion presentation participant opinion data including a consent or non-consent opinion and scores of the opinion presentation participants by providing the expert opinion data to the opinion presentation participants;

30 determining, by the management computer, rankings of the expert opinion data based on the opinion presentation participant opinion data, determining a predetermined number of pieces of required reading opinion data

to be necessarily read by the opinion presentation participants on the issue according to the rankings thereof, and determining a predetermined number of pieces of selective reading opinion data to be selectively read by the opinion presentation participants with respect to expert opinion data which is not included in the required reading opinion data and any separate opinion of the opinion presentation participants;

receiving, by the management computer, opinion presentation participant opinion data including a consent or non-consent opinion and scores from the opinion presentation participants by providing the predetermined number of pieces of the required reading opinion data and the predetermined number of pieces of the selective reading opinion data to the opinion presentation participants; and

deriving, by the management computer, collective intelligence convergence data for the issue based on the opinion presentation participant opinion data,

wherein the deriving, by the management computer, collective intelligence convergence data comprises:

setting required reading opinion data and selective reading opinion data of agreement and opposition opinions on the expert opinion data of the agreement or opposition opinion on the issue to a predetermined number, respectively;

representing consent, non-consent, and scores thereof of the required reading opinion data and the selective reading opinion data for the agreement and opposition opinions input by the opinion presentation participants;

calculating average values of the scores of the required reading opinion data and selective reading opinion data of each opinion presentation participant; and

deriving opinion of each of the opinion presentation participants based on a result of comparing an average score for the agreement opinion and an average score for the opposition opinion.

9. A collective intelligence convergence method comprising steps of:

transmitting, by a management computer, an opinion presentation request related to an issue to at least one expert terminal by inquiring at least one expert in the field in an expert pool in associated with the issue received;

5 performing, by the at least one expert, expert authentication by accessing the management computer using the at least one expert terminal;

providing, by the management computer, an expert opinion presentation form to the at least one expert terminal of the at least one expert whose authentication is completed;

10 transmitting, by the at least one expert terminal, to the management computer, expert opinion data including an agreement or opposition opinion on the issue, grounds and description data thereof which are input by the at least one expert in the opinion presentation form provided by the management computer;

15 storing, by the management computer, the expert opinion data of the agreement or opposition opinion on the issue transmitted from the at least one expert terminal;

exposing, by the management computer, decision making information about the issue to opinion presentation participant terminals of opinion presentation participant members;

20 performing, by the opinion presentation participant terminals, opinion presentation participant authentication by accessing the management computer;

providing, by the management computer, a predetermined number of pieces of expert data for the issue to the opinion presentation participant terminals of the opinion presentation participants whose authentication is completed;

25 transmitting, to the management computer, opinion presentation participant opinion data including consent and non-consent data for the expert opinion data on the issue, score data thereon, which are input by the opinion presentation participants, and separate opinion data when a separate opinion of

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the participant is presented;

determining, by the management computer, a predetermined number of pieces of high-ranking expert opinion data as required reading opinion data by giving a ranking to the expert opinion data based on the opinion presentation participant opinion data transmitted from the opinion presentation participant terminals and determining the expert opinion data which is not included in the required reading opinion data and the separate opinion data of the opinion presentation participants as the selective reading opinion data to store the determined data as background knowledge data;

exposing, by the management computer, decision making information about the issue to opinion presentation participant terminals of opinion presentation participant members;

performing, by the opinion presentation participant terminals, opinion presentation participant authentication by accessing the management computer;

providing, by the management computer, background knowledge data for the issue to the opinion presentation participant terminals of the opinion presentation participants whose authentication is completed;

transmitting, to the management computer, opinion presentation participant opinion data including consent and non-consent data for the required reading opinion data and the selective reading opinion data on the issue included in the background knowledge data, and score data thereof, which are input by the opinion presentation participants;

verifying, by the management computer, whether the opinion presentation of the participants participating in the opinion presentation is completed;

verifying, by the management computer, whether the rankings of the required reading opinion data and the selective reading opinion data are changed based on the opinion presentation participant opinion data while receiving continuously the opinion presentation of the opinion presentation participants when it is verified that the opinion presentation of the opinion

presentation participants is not completed;

changing, by the management computer, the required reading opinion data and the selective reading opinion data themselves or the rankings thereof to provide the changed data or rankings to the opinion presentation participant terminals when it is verified that the rankings of the required reading opinion data and the selective reading opinion data are changed; and

deriving, by the management computer, collective intelligence convergence data based on the received opinion presentation participant opinion data when it is verified that the opinion presentation of the opinion presentation participants is completed,

wherein the deriving, by the management computer, collective intelligence convergence data comprises:

setting required reading opinion data and selective reading opinion data of agreement and opposition opinions on the expert opinion data of the agreement or opposition opinion on the issue to a predetermined number, respectively;

representing consent, non-consent, and scores thereof of the required reading opinion data and the selective reading opinion data for the agreement and opposition opinions input by the opinion presentation participants;

calculating average values of the scores of the required reading opinion data and selective reading opinion data of each opinion presentation participant; and

deriving opinion of each of the opinion presentation participants based on a result of comparing an average score for the agreement opinion and an average score for the opposition opinion.