

CLAIMS

1. An interactive learning system comprising:

at least one server communicatively coupled to a database having a plurality of student profiles and a plurality of computing devices interconnected across a network,

5 said plurality of computing devices comprising at least one guide operable computing device in communication with a plurality of student operable computing devices; and said at least one server being coupled to a database of learning resources including a library of questions at least some of said questions being associated with possible answers and notes;

10 wherein during a learning session between at least one guide operable computing device and at least one student operable computing device accessed by a student with a profile on said at least one server via the network,

the processor of the at least one student operable computing device configured for generating a student interface displaying a question from the library and capturing an answer input thereto during a learning session; and

15 the processor of said guide operable computing device configured for generating a guide interface displaying one or more questions; any associated possible answers and notes thereon and for displaying the answer input from the student operable computing device,

20 wherein said processor of the at least one guide operable computing device is further configured to capture input on said student answer input via the guide interface for transmission across the network to the at least one student operable computing device for display on the student interface during the session;

25 wherein said interactive learning system is configured for a next question to be automatically selected from the library according to a combination of the student's performance data; wherein said performance data comprises correctness of the student's answer to one or more preceding questions, the student's average response time in answering one or more preceding questions, and a count of the instances of switching between answer options in the one or more preceding questions;

30 and the attributes of the question include a difficulty level, topic, type, length, grading criteria, and relationships with other questions.

2. The interactive learning system according to claim 1 wherein the questions are in a format selected from the group of formats comprising multiple choice questions having one correct answer selectable from a plurality of options, multiple choice questions having at least two or more correct answers selectable from a plurality of options and a short answer question.
3. The interactive learning system according to claim 1 wherein where the question is in a short answer question format, the processor of the student operable computing device is configured for generating an interface having a region for capturing answer input from the student and a region proximal thereto for displaying during the session input received from the guide on said student answer input.
4. The interactive learning system according to claim 1 wherein where the question is in a short answer question format, the processor of the guide operable computing device is configured for generating an interface for displaying during the answer input from the student and for capturing input on the student's answer input during the learning session.
5. The interactive learning system according to claim 3 wherein the input is a performance score.
6. The interactive learning system according to claim 1 wherein the answers provided from a student operable computing device to the plurality of questions in a session together with any input received from the guide is stored against the corresponding student profile.
7. The interactive learning system according to claim 1 wherein the system is configured for providing automatically generated evaluation of a student answer input during a session for at least one or more questions for display on the interface of the student operable device, wherein the evaluation is made by comparison of the answer input to at least one or more questions and the associated answer for the at least one or more questions stored in the library of questions.
8. The interactive learning system according to claim 7 wherein the student answer input is multiple choice answer input and the correctness thereof is automatically detected and displayed on the interface generated by the guide operable computing device during the learning session by comparing the answer input against the correct answer stored for that questions in the library of questions.

9. The interactive learning system according to claim 1 wherein attributes of at least one question in the plurality of questions in the library of questions including a difficulty level, topic, type, length, grading criteria, and relationships with other questions are specified prior to or during a session.
- 5 10. The interactive learning system according to claim 1 further including an interface configured to receive from one or more authorised users additional questions for inclusion in a stored library of questions wherein at least one or more attributes of the question including difficulty level, topic, type, length, grading criteria, and relationships with other questions are also captured.
- 10 11. The interactive learning system according to claim 1 wherein the or each of the guide or student operable devices are configured to generate an interface displaying at the conclusion of the session the questions issued during the session, the answers input in response, correct answers and any comments provided thereto.
12. The interactive learning system according to claim 1 wherein a region of the interface
15 generated on the guide operable computing device is configured for displaying a first image stream captured by an image acquisition means of the student operable computing device proximal to a second image stream captured by the guide operable computing device during the learning session; and
- wherein a region of the interface generated on the student operable computing
20 device is configured for displaying the second image stream captured by an image acquisition means of the guide operable computing device during the learning session proximal to the first image stream captured by the student operable computing device during the learning session.
13. The interactive learning system according to claim 1 wherein the questions are in a
25 first language and the answers are in a language different from the first language.
14. The interactive learning system according to claim 1 wherein the processor of the guide operable computing device is configured for generating an interface during a learning session including a lexicon region having at least one or more editable elements, each element associating input of a morpheme in a first language or a corresponding phonetic
30 representation thereof with a definition in a second language; wherein said lexicon and any modifications thereof are transmitted via the server to the or each student operable computing device during a learning session.

15. The interactive learning system according to claim 14 wherein an element is included in the lexicon region by receiving input comprising a morpheme or phonetic representation and displaying the corresponding morpheme or phonetic representation retrieved from a plurality of stored associations between morphemes and phonetic representations; and for
5 receiving a specified definition thereof for transmission of that element and any modifications thereto via the server to the or each student operable computing device in the learning session.
16. The interactive learning system according to any one of claim 14 or claim 15 wherein the morpheme comprises at least one or more logograms.
- 10 17. The interactive learning system according to claim 16 wherein the at least one or more logograms is a Chinese hanzi, Korean hanya or Japanese kanji Character and the corresponding phonetic representation is an English language Romanisation thereof.
18. The interactive learning system according to any one of claims 14-17 wherein the lexicon region of the interface is dynamically updated by the guide during the learning
15 session to display elements thereof on the interface generated by the student operable computing devices.
19. The interactive learning system according to any one of claims 14-17 , wherein the lexicon region of the interface includes a plurality of elements specified by an instructor prior to commencement of the learning session; said elements being able to be added to, deleted
20 or modified by the guide during the learning session.
20. The interactive learning system according to claim 14 wherein the elements in the lexicon region of each learning session for each student are stored on the server.
21. An interactive learning system comprising:
- at least one server communicatively coupled to a database having a plurality of
25 student profiles and a plurality of computing devices interconnected across a network,
- said plurality of computing devices comprising at least one instructor operable computing device having a processor configured for communication with a plurality of student operable computing devices; and said server being coupled to a database of learning resources including a library of questions and associated correct answers;

wherein the processor of said instructor operable computing device is also configured for generating an interface for specifying one or more questions to be assigned to a learning session for answering by at least one or more students; and

wherein said interactive learning system is configured for a next question to be automatically selected from the library according to a combination of the student's performance data; wherein said performance data comprises correctness of the student's answer to one or more preceding questions, the student's average response time in answering one or more preceding questions, and a count of the instances of switching between answer options in the one or more preceding questions;

and the attributes of the question include a difficulty level, topic, type, length, grading criteria, and relationships with other questions

wherein during a learning session established between the server and at least one student operable computing device accessed by a student with a profile on said server via the network, the processor of the at least one student operable computing device is

configured for
generating a student interface displaying an assigned question from the library;
capturing an answer input thereto during a learning session; and
displaying a determination of the correctness thereof based upon a comparison with the associated correct answer on the server for the assigned question.

22. A non-transitory computer readable storage medium storing one or more programs, the one or more programs comprising instructions, which when executed by an electronic device with a display, cause the device to perform operations including:

establishing a learning session with at least one student operable computing device across a network via at least one server; said at least one student operable computing device being authenticated by locating a corresponding student profile in a database coupled to the at least one server;

generating a guide interface displaying a plurality of questions; any associated possible answers and notes thereon in a database of learning resources including a library of questions at least some of said questions being associated with possible answers and notes;

displaying the answer input from the student operable computing device on said guide interface;

capturing input on said student answer input via the guide interface for transmission across the network to the at least one student operable computing device for display on the student interface during the session;

5 wherein the next question is automatically selected from the library according to a combination of the student's performance data; wherein said performance data comprises correctness of the student's answer to one or more preceding questions, the student's average response time in answering one or more preceding questions, and a count of the instances of switching between answer options in the one or more preceding questions;

10 and the attributes of the question include a difficulty level, topic, type, length, grading criteria, and relationships with other questions.

23. A computer program or computer program product comprising instructions, which when executed by an electronic device with a display, cause the device to perform operations including:

15 establishing a learning session with at least one student operable computing device across a network via at least one server; said at least one student operable computing device being authenticated by locating a corresponding student profile in a database coupled to the at least one server;

20 generating a guide interface displaying a plurality of questions; any associated possible answers and notes thereon in a database of learning resources including a library of questions at least some of said questions being associated with possible answers and notes;

displaying the answer input from the student operable computing device on said guide interface;

25 capturing input on said student answer input via the guide interface for transmission across the network to the at least one student operable computing device for display on the student interface during the session;

30 wherein the next question is automatically selected from the library according to a combination of the student's performance data; wherein said performance data comprises correctness of the student's answer to one or more preceding questions, the student's average response time in answering one or more preceding questions, and a count of the instances of switching between answer options in the one or more preceding questions;

and the attributes of the question include a difficulty level, topic, type, length, grading criteria, and relationships with other questions.

24. A method of providing an interactive learning session between at least one student operable computing device and at least one guide operable computing device across a network via at least; one server; the method comprising:

establishing a learning session between a guide operable computing device and at least one student operable computing device; said at least one student operable computing device being authenticated by locating a corresponding student profile in a database coupled to the at least one server;

generating a guide interface on the guide operable computing device for displaying one or more questions; any associated possible answers and notes thereon from a database of learning resources including a library of questions at least some of said questions being associated with possible answers and notes;

displaying the answer input from the student operable computing device on said guide interface;

capturing input on said student answer input via the guide interface for transmission across the network to the at least one student operable computing device for display on the student interface during the session;

wherein a next question is automatically selected from the library according to a combination of the student's performance data; wherein said performance data comprises correctness of the student's answer to one or more preceding questions, the student's average response time in answering one or more preceding questions, and a count of the instances of switching between answer options in the one or more preceding questions;

and the attributes of the question include a difficulty level, topic, type, length, grading criteria, and relationships with other questions.

25. A method of providing an interactive learning session between at least one student operable computing device across a network and at least one server, the method comprising:

capturing inclusion of at least one or more questions in a learning session via an interface generated by a processor of an instructor operable computing device, wherein said questions are from a database of learning resources comprising a library of questions and

associated correct answer(s); wherein the instructor is authenticated by locating against a corresponding instructor profile in the database coupled to at least one server across a network;

- 5 establishing a learning session for a student operable computing device
authenticated by locating a corresponding student profile in the database coupled to at least one server across a network; and

- 10 generating a student interface on the student operable computing device for displaying questions included via the interface of the instructor operable computing device; capturing an answer input thereto during a learning session and displaying a determination of the correctness thereof based upon a comparison with the associated correct answer on the server for the included questions in that learning session;

- 15 wherein a next question is automatically selected from the library according to a combination of the student's performance data; wherein said performance data comprises correctness of the student's answer to one or more preceding questions, the student's average response time in answering one or more preceding questions, and a count of the instances of switching between answer options in the one or more preceding questions;

and the attributes of the question include a difficulty level, topic, type, length, grading criteria, and relationships with other questions.

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