CLAIMS

1. A computer-implemented method for ambiguity resolution in instruction statement interpretation, the method comprising:

receiving a user input comprising an instruction set, wherein the instruction set comprises one or more processor executable instruction statements;

executing by a processor an instruction statement of the one or more processor executable instruction statements of the instruction set to determine one or more interpretations of the instruction statement;

determining the instruction statement has ambiguity in instruction statement interpretation in response to determining that the instruction set has a plurality of possible interpretations; and

automatically resolving ambiguity in interpreting the instruction statement of the instruction set without user intervention based on one or more criteria for instruction statement interpretation, wherein automatically resolving the ambiguity in interpreting the instruction statement of the instruction set without user intervention comprises scoring the plurality of possible interpretations of the instruction statement by determining a score for each of the plurality of possible interpretations of the instruction statement based on the one or more criteria, and

wherein determining the score based on the one or more criteria comprises determining the score based on a proximity of the one of the plurality of possible interpretations of the instruction statement to one or more selected interpretations of one or more previous instruction statements, and

wherein a proximity of the one of the plurality of possible interpretations of the instruction statement to one or more selected interpretations of the one or more previous relevant instruction statements comprises one or both of (a) a logic hierarchy distance between the one of the plurality of possible interpretations of the instruction statement and each of the one or more selected interpretations of the one or more previous relevant instruction statements, and (b) a visual distance between the one of the plurality of possible interpretations of the instruction statement and each of the one or more selected interpretations of the one or more previous relevant instruction statements.

2. The method according to claim 1, wherein the step of automatically resolving the ambiguity in interpreting the instruction statement of the instruction set without user intervention further comprises:

ranking the scoring of the plurality of possible interpretations based on the score; and

automatically resolving the ambiguity in response to the ranking.

3. The method according to claim 2, wherein the step of automatically resolving the ambiguity in response to the ranking comprises:

automatically selecting an interpretation among the plurality of possible interpretations based on the ranking of the scoring.

4. The method according to any one of claims 1 to 3, wherein determining the score based on the one or more criteria further comprises:

for each of the plurality of possible interpretations of the instruction statement, determining the score based additionally on a validity of the one of the plurality of possible interpretations of the instruction statement, or determining the score based additionally on a validity of a keyword, a phrase or their variants of the instruction statement, or scoring a validity of a context of the instruction statement, or determining the score based additionally on a proximity of the one of the plurality of possible interpretations of the instructions statement to one or more related elements, or determining the score based additionally on a similarity and/or proximity of the one of the plurality of possible interpretations of the instructions statement to a provided image, or determining the score based additionally on one or more instruction statement modifiers.

5. The method according to any one of claims 1 to 4, wherein the step of scoring the plurality of possible interpretations of the instruction statement further comprises:

for each of the one or more interpretations of the instruction statement, factoring in an instruction statement specific parameter, wherein the instruction statement specific parameter includes a specific scoring applicable for a specific instruction statement or a specific interpretation.

6. The method according to claim 4, wherein the one or more instruction statement modifiers include one or more additional keywords provided to adjust the scoring.

7. The method according to any one of claims 1 to 6, wherein the ambiguity resolution is performed in a scripted user interface interaction.

8. The method according to any one of claims 2 to 7, wherein the step of scoring the plurality of possible interpretations of the instruction statement further comprises:

assigning weightages respectively corresponding to each criterion of the one or more criteria, and

scoring a total score for each of the plurality of possible interpretations of the instruction statement based on a calculation of the weightages with the corresponding one or more criteria.

9. The method according to claim 8, wherein the step of ranking the scoring of the plurality of possible interpretations of the instruction statement further comprises:

ranking the total scores of the plurality of possible interpretations of the instruction statement.

10. A system for ambiguity resolution in instruction statement interpretation, the system comprising:

at least one processor; and

at least one memory including computer program code;

the at least one memory and the computer program code configured to, with the at least one processor, cause the system at least to:

receiving a user input comprising an instruction set, wherein the instruction set comprises one or more processor executable instruction statements

execute by the at least one processor the instruction statement of the instruction set to determine one or more interpretations of the instruction statement;

determine the instruction statement has ambiguity in instruction statement interpretation in response to determining that the instruction set has a plurality of possible interpretations; and

automatically resolve ambiguity in interpreting the instruction statement of the instruction set without user intervention based on one or more criteria for instruction statement interpretation, wherein causing the system to automatically resolve the ambiguity in interpreting the instruction statement of the instruction set without user intervention comprises causing the system to score the plurality of possible interpretations of the instruction statement by determining a score for each of the plurality of possible interpretations of the instruction statement based on the one or more criteria, and

wherein determining the score based on the one or more criteria comprises determining the score based on a proximity of the one of the plurality of possible interpretations of the instruction statement to one or more selected interpretations of one or more previous instruction statements, and

wherein a proximity of the one of the plurality of possible interpretations of the instruction statement to one or more selected interpretations of the one or more previous relevant instruction statements comprises one or both of (a) a logic hierarchy distance between the one of the plurality of possible interpretations of the instruction statement and each of the one or more selected interpretations of the one or more previous relevant instruction statements, and (b) a visual distance between the one of the plurality of possible interpretations of the instruction statement and each of the one or more selected interpretations of the one or more previous relevant instruction statements.

11. The system according to claim 10, wherein when automatically resolving the ambiguity in interpreting the instruction statement of the instruction set without user intervention, the system is caused to:

rank the scoring of the plurality of possible interpretations based on the score; and

automatically resolve the ambiguity in response to the ranking.

12. The system according to claim 11, wherein when automatically resolving the ambiguity in response to the ranking, the system is further caused to:

select an interpretation among the plurality of possible interpretations based on the ranking of the scoring.

13. The system according to any one of claims 10 to 12, wherein when scoring the plurality of possible interpretations of the instruction statement, the system is caused to additionally score, for each of the plurality of possible interpretations of the instruction statement, one or more of the following:

score a validity of the one of the plurality of possible interpretations of the instruction statement;

score a validity of a keyword, a phrase or their variants of the instruction statement;

score a validity of a context of the instruction statement;

score a proximity of the one of the plurality of possible interpretations of the instructions statement to one or more related elements;

score a similarity and/or proximity of the one of the plurality of possible interpretations of the instructions statement to a provided image; or

score one or more instruction statement modifiers.

14. The system according to any one of claims 10 to 13, wherein when scoring the plurality of possible interpretations of the instruction statement, the system is caused to:

for each of the one or more interpretations of the instruction statement, factor in an instruction statement specific parameter, wherein the instruction statement specific parameter includes a specific scoring applicable for a specific instruction statement or a specific interpretation.

15. The system according to claim 13, wherein the one or more instruction statement modifiers include one or more additional keywords provided to adjust the scoring.

16. The system according to any one of claims 10 to 15, wherein the ambiguity resolution is performed in a scripted user interface interaction.

17. The system according to any one of claims 11 to 16, wherein during the step of scoring the plurality of possible interpretations of the instruction statement, the system is further caused to:

assign weightages corresponding to each criterion of the one or more criteria, and

score a total score for each of the plurality of possible interpretations of the instruction statement based on a calculation of the weightages with the corresponding one or more criteria.

18. The system according to claim 17, wherein during the step of ranking the scoring of the plurality of possible interpretations of the instruction statement, the system is further caused to:

rank the total scores of the plurality of possible interpretations of the instruction statement.

19. A computer readable medium comprising instructions which, when executed by a processor, make the processor perform a method according to any one of claims 1 to 9 for automatic ambiguity resolution in instruction statement interpretation without user intervention.