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| **Section and Topic** | **Item #** | **Checklist item** | **Location where item is reported** |
| TITLE | 1 | Identify the report as a systematic review. | Title (Reported as a PRISMA-based systematic review) |
| ABSTRACT | 2 | See the PRISMA 2020 for Abstracts checklist. | Abstract (Full summary provided) |
| INTRODUCTION | 3 | Describe the rationale for the review in the context of existing knowledge. | Introduction (Discussed in the first two paragraphs) |
|  | 4 | Provide an explicit statement of the objective(s) or question(s) the review addresses. | Introduction (Clearly stated in the last paragraph of the introduction) |
| METHODS | 5 | Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses. | Review Process (Eligibility Criteria section) |
|  | 6 | Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify studies. Specify the date when each source was last searched or consulted. | Keywords Used in the Search Process (Sources such as IEEE, PubMed, etc. are mentioned) |
|  | 7 | Present the full search strategies for all databases, registers and websites, including any filters and limits used. | Keywords Used in the Search Process |
|  | 8 | Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process. | Review Process (Selection Process) |
|  | 9 | Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process. | Review Process (Selection Process) |
|  | 10a | List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g., for all measures, time points, analyses), and if not, the methods used to decide which results to collect. | Data Items (Table 4, 5, 6, etc. provide performance metrics, including accuracy, SNR, etc.) |
|  | 11 | Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process. | Review Process (Quality Assessment Criteria) |
|  | 12 | Specify for each outcome the effect measure(s) (e.g., risk ratio, mean difference) used in the synthesis or presentation of results. | Review Process (Effect measures: accuracy, SNR, PSNR, Dice index, IoU, etc. mentioned in the Results section) |
|  | 13a | Describe the processes used to decide which studies were eligible for each synthesis. | Review Process (Eligibility Criteria) |
|  | 13c | Describe any methods used to tabulate or visually display results of individual studies and syntheses. | Results (Tables and Figures used for synthesis, such as Tables 4, 5, 6) |
| RESULTS | 16a | Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram. | Results (PRISMA Flowchart included) |
|  | 17 | Cite each included study and present its characteristics. | Review Process and Results (Referenced in Tables and cited in References) |
|  | 18 | Present assessments of risk of bias for each included study. | Results (Mentioned in Review Process but not detailed) |
|  | 19 | For all outcomes, present for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g., confidence/credible interval), ideally using structured tables or plots. | Results (Tables presenting summary statistics such as accuracy, precision, PSNR, IoU, etc.) |
|  | 20b | Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g., confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect. | Results (Tables and Figures present statistical synthesis) |
| DISCUSSION | 23a | Provide a general interpretation of the results in the context of other evidence. | Discussion (General interpretation of results provided) |
|  | 23b | Discuss any limitations of the evidence included in the review. | Discussion (Limitations of evidence discussed) |
|  | 23c | Discuss any limitations of the review processes used. | Discussion (Limitations of review process discussed) |
|  | 23d | Discuss implications of the results for practice, policy, and future research. | Discussion and Future Scopes |

*From:*  Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ 2021;372:n71. doi: 10.1136/bmj.n71