

Supplementary data

Governing adjudication with AI: the normative-empirical gap in Korea’s legal judgment prediction research and a sequenced agenda for the judiciary’s AI roadmap



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1. Supplementary data S2–PRISMA-ScR checklist

**Table S1.** Preferred reporting items for systematic reviews and meta-analyses extension for scoping reviews (PRISMA-ScR) checklist.

| SECTION            | ITEM | PRISMA-ScR CHECKLIST ITEM                                                                                                                                                                                                     | REPORTED IN (SECTION)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TITLE              |      |                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Title              | 1    | Identify the report as a scoping review.                                                                                                                                                                                      | Abstract—“This article maps Korea’s LJP literature in a scoping review: ...”. Not in the title, deliberately: the report is not wholly a scoping review, because Section 4 builds a normative agenda on the corpus rather than mapping it, and a title label would promise a reader something Section 4 does not deliver. Section 5.2 draws the same distinction, describing the corpus as assembled by a structured screening procedure reported in PRISMA-ScR form rather than by a full systematic review. The method is also stated in Section 3.1.2 and in the caption to Figure 1. |
| ABSTRACT           |      |                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Structured summary | 2    | Provide a structured summary that includes (as applicable): background, objectives, eligibility criteria, sources of evidence, charting methods, results, and conclusions that relate to the review questions and objectives. | Abstract. A continuous rather than a headed summary, carrying background, objectives, the review design, the results and the conclusions. The eligibility criteria, the sources of evidence and search date, and the record counts at identification and inclusion are in Section 3.1.2. The charting method is in Supplementary data S1.                                                                                                                                                                                                                                                |
| INTRODUCTION       |      |                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Rationale          | 3    | Describe the rationale for the review in the context of what is already known. Explain why the review questions/objectives lend themselves to a scoping review approach.                                                      | Section 1; Section 2.1; Section 3.1.1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



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Table S1. *Cont.*

| SECTION                                               | ITEM | PRISMA-ScR CHECKLIST ITEM                                                                                                                                                                                                                                                                                  | REPORTED IN (SECTION)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>INTRODUCTION</b>                                   |      |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Objectives                                            | 4    | Provide an explicit statement of the questions and objectives being addressed with reference to their key elements (e.g., population or participants, concepts, and context) or other relevant key elements used to conceptualize the review questions and/or objectives.                                  | Abstract; Section 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>METHODS</b>                                        |      |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protocol and registration                             | 5    | Indicate whether a review protocol exists; state if and where it can be accessed (e.g., a Web address); and if available, provide registration information, including the registration number.                                                                                                             | No protocol was registered and none is publicly deposited. The review followed a written internal protocol, whose operative content—eligibility criteria, search strategy, screening rules and charting form—is reported in Section 3.1.2 and in full in Supplementary data S1.                                                                                                                                                                                                                                                       |
| Eligibility criteria                                  | 6    | Specify characteristics of the sources of evidence used as eligibility criteria (e.g., years considered, language, and publication status), and provide a rationale.                                                                                                                                       | Section 3.1.2 (period, language, publication type, and the rationale for broadening each); Supplementary data S1, sheet 8_Codebook, which defines every exclusion and eligibility code.                                                                                                                                                                                                                                                                                                                                               |
| Information sources*                                  | 7    | Describe all information sources in the search (e.g., databases with dates of coverage and contact with authors to identify additional sources), as well as the date the most recent search was executed.                                                                                                  | Section 3.1.2 (three streams; search date 27 August 2026); Figure 1 (its identification panel names the sources in each stream); Supplementary data S1, sheets 1_Search_strategy and 2_Source_log, which name every source, the query set attempted at it, and the date searched.                                                                                                                                                                                                                                                     |
| Search                                                | 8    | Present the full electronic search strategy for at least 1 database, including any limits used, such that it could be repeated.                                                                                                                                                                            | Supplementary data S1, sheet 1_Search_strategy—all 93 search strings reproduced exactly as run across nine sources (Google Scholar was queried in two streams), each with an English gloss and the number of records it returned, plus the three registers browsed in full. Limits and their rationale are in Section 3.1.2.                                                                                                                                                                                                          |
| Selection of sources of evidence†                     | 9    | State the process for selecting sources of evidence ( <i>i.e.</i> , screening and eligibility) included in the scoping review.                                                                                                                                                                             | Section 3.1.2; Figure 1; Supplementary data S1, sheets 3_PRISMA_flow and 4_Screening_decisions.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Data charting process‡                                | 10   | Describe the methods of charting data from the included sources of evidence (e.g., calibrated forms or forms that have been tested by the team before their use, and whether data charting was done independently or in duplicate) and any processes for obtaining and confirming data from investigators. | Supplementary data S1, sheet 0_README, under “Screening and charting”—data were charted onto a form fixed before screening; charting was carried out by the first author and not repeated in duplicate; and no study author was contacted for further data. The form itself is sheets 5_Charting_empirical_14 and 6_Charting_normative_22, with its variables defined in sheet 8_Codebook, and sheet 4_Screening_decisions records for every record whether the eligibility judgment rests on the full text or on the abstract alone. |
| Data items                                            | 11   | List and define all variables for which data were sought and any assumptions and simplifications made.                                                                                                                                                                                                     | Tables 1 and 2; Supplementary data S1, sheet 8_Codebook (every variable and code defined) and sheet 0_README (the assumptions and simplifications, including the treatment of untranslated titles, of records with no year, and of author discipline as printed).                                                                                                                                                                                                                                                                     |
| Critical appraisal of individual sources of evidence§ | 12   | If done, provide a rationale for conducting a critical appraisal of included sources of evidence; describe the methods used and how this information was used in any data synthesis (if appropriate).                                                                                                      | Not done. Critical appraisal is optional under PRISMA-ScR and was not undertaken, the object being to map the extent and character of the Korean field rather than to grade the validity of individual studies.                                                                                                                                                                                                                                                                                                                       |
| Synthesis of results                                  | 13   | Describe the methods of handling and summarizing the data that were charted.                                                                                                                                                                                                                               | Section 3.1.2; Section 3.2 to Section 3.5, which set out how the charted data are grouped by subtask, data infrastructure, method and evaluation, and author discipline.                                                                                                                                                                                                                                                                                                                                                              |

Table S1. *Cont.*

| SECTION                                       | ITEM | PRISMA-ScR CHECKLIST ITEM                                                                                                                                                                       | REPORTED IN (SECTION)                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>RESULTS</b>                                |      |                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                   |
| Selection of sources of evidence              | 14   | Give numbers of sources of evidence screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally using a flow diagram.                    | Section 3.1.2; Figure 1 (the PRISMA-ScR flow diagram: 2,175 identified, 402 assessed for eligibility, 42 included); Supplementary data S1, sheets 3_PRISMA_flow and 4_Screening_decisions, the latter giving the ground for every one of the 2,133 exclusions.                                                                    |
| Characteristics of sources of evidence        | 15   | For each source of evidence, present characteristics for which data were charted and provide the citations.                                                                                     | Table 1 (the 14 empirical studies) and Table 2 (the 22 normative works), each row cited to the reference list; Supplementary data S1, sheets 5_Charting_empirical_14 and 6_Charting_normative_22.                                                                                                                                 |
| Critical appraisal within sources of evidence | 16   | If done, present data on critical appraisal of included sources of evidence (see item 12).                                                                                                      | Not done (see item 12).                                                                                                                                                                                                                                                                                                           |
| Results of individual sources of evidence     | 17   | For each included source of evidence, present the relevant data that were charted that relate to the review questions and objectives.                                                           | Tables 1 and 2; Supplementary data S1, sheets 5_Charting_empirical_14 and 6_Charting_normative_22.                                                                                                                                                                                                                                |
| Synthesis of results                          | 18   | Summarize and/or present the charting results as they relate to the review questions and objectives.                                                                                            | Section 3.2 (subtask coverage, Table 3); Section 3.3 (data infrastructure); Section 3.4 (methods and evaluation); Section 3.5 (the normative-empirical disconnect).                                                                                                                                                               |
| <b>DISCUSSION</b>                             |      |                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                   |
| Summary of evidence                           | 19   | Summarize the main results (including an overview of concepts, themes, and types of evidence available), link to the review questions and objectives, and consider the relevance to key groups. | Section 4 (the framework the findings support); Section 5.1.                                                                                                                                                                                                                                                                      |
| Limitations                                   | 20   | Discuss the limitations of the scoping review process.                                                                                                                                          | Section 5.2; Supplementary data S1, sheet 0_README, which records the limits of the data itself.                                                                                                                                                                                                                                  |
| Conclusions                                   | 21   | Provide a general interpretation of the results with respect to the review questions and objectives, as well as potential implications and/or next steps.                                       | Section 6.                                                                                                                                                                                                                                                                                                                        |
| <b>FUNDING</b>                                |      |                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                   |
| Funding                                       | 22   | Describe sources of funding for the included sources of evidence, as well as sources of funding for the scoping review. Describe the role of the funders of the scoping review.                 | Acknowledgments—the review was supported by research funding from aSSIST University, which had no role in the design, conduct or reporting of the review. The two included sources produced under a national research-and-development project are identified as such in the reference list ([22] and [37]) and in Table 2 ([37]). |

\* Where sources of evidence (see second footnote) are compiled from, such as bibliographic databases, social media platforms, and Web sites.

† A more inclusive/heterogeneous term used to account for the different types of evidence or data sources (e.g., quantitative and/or qualitative research, expert opinion, and policy documents) that may be eligible in a scoping review as opposed to only studies. This is not to be confused with information sources (see first footnote).

‡ The frameworks by Arksey and O'Malley (6) and Levac and colleagues (7) and the JBI guidance (4, 5) refer to the process of data extraction in a scoping review as data charting.

§ The process of systematically examining research evidence to assess its validity, results, and relevance before using it to inform a decision. This term is used for items 12 and 19 instead of “risk of bias” (which is more applicable to systematic reviews of interventions) to include and acknowledge the various sources of evidence that may be used in a scoping review (e.g., quantitative and/or qualitative research, expert opinion, and policy document).

*From: Tricco AC, Lillie E, Zarin W, O'Brien KK, Colquhoun H, Levac D, et al. PRISMA Extension for Scoping Reviews (PRISMA-ScR): Checklist and Explanation. Ann Intern Med. 2018; 169:467–473. doi: 10.7326/M18-0850*

Note: Supplementary data S1 is the accompanying workbook—the search strategy as executed, the record-level screening decisions, and the charted data.