

AI for Science (AI4Sci) Submission Guidelines

National Preliminary Round

Format: Remote / Asynchronous Review

The Submission Checklist:

1. Research Paper (PDF, ≤10MB)
2. Quad Chart (PDF, ≤5MB)

Deliverable A: Research Paper

- Paper Requirements

- Format: PDF, ≤10MB
- The main body of the paper must be at least 5 full pages
- Font: Calibri or Arial; Body text 11–12 pt, headings appropriately sized with clear hierarchy
- All figures and tables must be clear, properly numbered and titled, relevant to the text with no unrelated visuals
- **Naming Format:** Category_ProjectTitle_Paper.pdf

Examples:

NAS_AI-Based Prediction of Plant Growth Status_Paper.pdf

HSS_A Multi-modal Analysis of Public Emotion Based on NLP_Paper.pdf

- Paper Title & Structure Guidelines

1. Title Page

- Full project title (must match registration information)
- Full names of all team members
- Institutional affiliation (school)
- Project track (Natural & Applied Science / Humanities & Social Science)
- Country / Region

2. Abstract (within 250 words)

- Research topic and core problem
- Research objectives, academic significance, and social value
- Primary research methods, AI tools and technologies adopted
- Key data, major experimental results and important findings
- Core conclusions and innovative value of the research

3. Introduction & Research Objectives

- Industry background and current research status of the field
- Core scientific issues or social pain points addressed
- Specific research goals, practical significance and application value
- Clearly state well-defined and researchable research questions

4. Methods

- Overall research workflow, implementation procedures and timeline
- Data source (clearly specify: public dataset / self-collected / collaboratively acquired), data type, scale, collection methods, and quality control measures; disclose potential biases and limitations of the data.
- AI models and tools utilized; clarify their suitability for the research problem and demonstrate rationality of technical application logic.
- Detailed procedures for data preprocessing, model construction, experimental design, and result validation.

5. Results

- Present key findings and evidence clearly via figures, tables, textual summary, or visualizations.
- Report analytical results and core evidence objectively.

6. Discussion

- Interpretation and scientific analysis of results
- Conduct rigorous reasoning based on evidence, properly interpret AI outputs, and validate findings with disciplinary logic.
- Objectively analyze research limitations and propose feasible improvement directions.

7. Conclusion

- Summarize core research outcomes.
- Evaluate whether the conclusions address the original research questions and fulfill research objectives.
- Clearly highlight the project's innovative aspects.

8. References

- List only cited literature, data sources, and tool resources with traceable origins.
- Prioritize core and authoritative references; reference section limited to 1 page maximum.
- References may use 10pt font for clear formatting distinction from the main text.

Deliverable B: Quad Chart

- Quad Chart Requirements

- Format: PDF, ≤ 5MB
- File Naming: Category_ProjectTitle_Quad Chart.pdf
- Page Limit: Single A4 page with a clear layout and four equal-sized quadrants
- Font: Calibri or Arial; font size must ensure full readability



- Quad Chart Content Guidelines

1. Quad Chart Title

- Line 1: Project Title (consistent with paper and registration details)
- Line 2: Student Name(s), School, Country

Quadrant 1: Research Question

- State the core research, engineering, or social science problem clearly
- Briefly explain research significance and value
- Use bullet points, concise statements, or graphics for clarity

Quadrant 2: Methodology / Project Design

- Summarize research workflow, methods, or design plan in bullet points
- Specify AI models, tools, data sources, and experimental or analytical procedures
- Flowcharts and architecture diagrams may be included for illustration

Quadrant 3: Data Analysis & Results

- Present key findings mainly through charts and visualizations
- Use minimal text to summarize core discoveries, model metrics, and data patterns

Quadrant 4: Interpretation & Conclusions

- Conclude key outcomes and address the research question
- Explain result implications, innovation highlights, and application value
- Objectively state limitations in data, models, and methodology
- Propose directions for future improvement and extension
- Present content in clear bullet points

Global Final Round

Format: In-person Poster Presentation

The Submission Checklist:

1. Updated Research Paper (PDF, ≤10 MB)
2. Research Logbook (PDF, ≤15 MB)
3. Backboard Display (PDF, ≤20MB)

Deliverable A: Updated Research Paper

Refine your Preliminary Round Research Paper.

Deliverable B: Research Logbook

- Research Logbook Requirements

- Format: PDF, ≤ 15 MB
- File Naming: Category_ProjectTitle_Logbook.pdf



- The logbook shall be a chronological, authentic, and continuous record of the original research process; no retroactive revision is allowed.
- Screenshots, code snippets, charts, and photos may be inserted as supporting evidence.
- Cover page must include: Project Title, Student Name & School, Category

- Logbook Content Guidelines

- 1.Date & Duration:** Start and end date of each research session, along with time spent.
- 2.Research Activities:** Record tasks performed: data collection, AI modeling, code debugging, experimentation, analysis, literature review, paper revision, etc.
- 3.Methods & Tools:** Document AI models, software, datasets, equipment, and procedural steps used.
- 4.Process Notes:** Challenges encountered, attempted solutions, and records of success or failure.
- 5.Stage Outcomes:** Key data, charts, model performance, observations, and progress summaries.
- 6.Adjustments & Reflections:** Plan revisions, reasons for changes, and next-step plans.

Deliverable C: Backboard Display

- General Guidelines

- The display board is for in-person summit exhibition; participants shall prepare and bring it to the venue by themselves.
- Layout: Standard ISEF-style tri-fold board.
- Content must be consistent with the research paper, quad chart, and research logbook.
- Keep content concise, clear, and focused on key points.
- Online submission: PDF format, file size ≤ 20 MB.
- File naming: Category_ProjectTitle_Backboard.pdf

- Recommended Display Board Sections

- 1.Title:** Project Title, Project ID, Category (NAS / HSS)
- 2.Research Question / Purpose**
- 3.Methodology:** Procedures, AI tools, data sources
- 4.Data & Results:** Graphs, tables, key findings
- 5.Conclusions:** Answer research question
- 6.References**