

Questions

Anything you share with us in this survey will remain confidential. Identifiable data will not be circulated beyond the study team. All data will be anonymized to the best of our ability. All reports and publications based on this data will be carefully written to avoid indirect identification of the identities of those involved.

If you do not want your work and views to be the subject of study, you should choose not to be part of this project or this survey.

In the future if you wish to revoke your consent to participate, we will use our best efforts to identify your personal data if requested.

However, because anonymization is a high priority of the project, it may not be possible to identify all data you have provided to that point.

Section 1: Demographic Questions

(REPEAT IN FOLLOWING SECTIONS AS NEEDED) For the purposes of this questionnaire, we define an artifact as any external materials or information provided in conjunction with a research paper. In practice, this consists of any materials developed by authors and linked to from a research paper. For example, this would include replication packages, tools/source code, companion sites, benchmarks, raw data, survey instruments and results, mechanized proofs, and more.

1. Which best describes your position?
 - a. Undergraduate Student
 - b. Graduate Student
 - c. Postdoc
 - d. Tenure Track Faculty
 - e. Teaching Track Faculty
 - f. Other Faculty
 - g. Industrial Researcher
 - h. Industrial Practitioner
 - i. Other: _____
2. Have you ever published a paper with an artifact? *(used to show/hide following sections)*
3. Have you ever evaluated artifacts as a member of an Artifact Evaluation Committee? *(used to show/hide following sections)*

Section 2a: No artifacts

1. Why have you found that creating an artifact is not the right choice for the research you have done?

Section 2: Artifact Creation [conditional]

1. Consider your most recently published article in which you shared an artifact, and select all the reasons below for which you created and shared that artifact:
 - a. As a replication package
 - b. As tools or code to accompany a paper
 - c. To provide the location of a companion site
 - d. To provide extra data that doesn't fit in the paper (e.g., survey results)
 - e. To provide additional information to the reviewer(s)
 - f. OTHER _____
2. Consider up to your three most recently published papers. Did you create or share an artifact associated with these papers?
 - a. Yes, I created or shared an artifact with all of them
 - b. Yes, I created or shared an artifact with some of them
 - c. No
 - d. Other: _____
3. Consider up to your three most recently published papers. Did you experience any difficulties or challenges when creating artifacts associated with those papers?
 - a. Yes (please explain): _____
 - b. No
 - c. Other (please explain): _____
4. **[DEPENDS ON ANSWER TO 3]** Is there any guidance or assistance that could have made artifact creation less challenging? _____
5. **[DEPENDS ON ANSWER TO 2]** Consider up to your three most recently published papers, and state all of the reasons below for which you chose not to (or were unable to) create or share an artifact associated with those papers:
 - a. _____
6. Consider up to your three most recently published papers. Were any of them associated with an artifact which you chose not to submit for evaluation by an artifact evaluation committee? If so, why?
 - a. Yes, the artifact was not submitted for evaluation because: _____
 - b. No
 - c. Other: _____
7. As an author, do you perceive any problems with the artifact evaluation process?
 - a. Yes, the problems are: _____
 - b. No
 - c. Other: _____
8. As an author, what do you feel is your primary motivation for including an artifact when publishing a research paper? _____

Section 3: Artifact Consumption

1. For which of the following reasons have you used an artifact other than your own?
(Remember, we are defining an artifact as any accompaniment to a research paper, including datasets, tools, etc.)
 - a. To obtain supplementary information for a research paper.
 - b. To obtain the necessary tools and/or data to replicate the findings of a research paper.
 - c. To obtain benchmark data or results to compare against. [FIXME: LANGUAGE]
 - d. For teaching purposes.
 - e. I have never used an artifact from a research paper other than my own.
 - f. Other: _____
2. What challenges have you faced when trying to use an artifact other than your own?
 - a. I couldn't build the artifact.
 - b. A lack of clear instructions for using the artifact.
 - c. A lack of clear instructions for installing the artifact.
 - d. The artifact was no longer accessible.
 - e. Significant effort would be required to use the artifact in the manner you desire.
(e.g, modifying many hardcoded values)
 - f. Other: _____
 - g. I have never tried and failed to use an artifact.
3. Have you ever contacted the authors of a paper about an artifact:
 - a. No, I never have
 - b. Yes, I contacted them because the artifact was not publicly available
 - c. Yes, I contacted them because: _____
4. Have you ever had to re-implement functionality from a paper, and if so, for what reasons:
 - a. No, I never have
 - b. Yes, because there was no artifact available
 - c. Yes, because the artifact didn't meet our needs because: _____
5. As an artifact author, what guidance/recommendations could be provided to help you produce higher quality artifacts?
6. What are the most important things an artifact should have/be/do? (List up to three characteristics)

Section 4: Artifact Evaluation [conditional]

1. List up to three problems or challenges with the artifact evaluation process that you are aware of as a former member of an AEC
 - a. [Open-ended]
2. List up to three ways that the artifact evaluation process could be improved:
 - a. [Open-ended]

(for all participants) Is there anything else we should know about artifacts?

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