**Submission Guidelines**

Your research use case should be based on your reflection of the key features of AIrTonomy and the Purdue Unmanned aerial Proving Ground (PUP) and how you plan to use its various components (see the [video](https://www.youtube.com/watch?v=vBsXC2Y5LxM) and slides [here](https://docs.google.com/presentation/d/e/2PACX-1vS6iyGAwbZU9gNzWUqKwvWf431Vzydc94StwP0BUu0AABGDwpgvdQlSrNX4qSVtk0EOCDDXGvpb5TT6/pub?start=true&loop=true&delayms=3000&slide=id.g26e3b5ed983_0_463)). We highly encourage you to think how you can use the different components in an integrated way, but you can also focus just on one aspect (e.g. the smart operations center and the wearable devices for human sensing of physiological signals). We encourage outside of the box thinking to advance the future of AI/ML for safe and trustworthy AAVs. More information can be found in the official submission site [here](https://www.purdue.edu/computes/airtonomy-workshop/rfi-submission-for-use-cases/).

To submit your ideas, please use the following [submission form](https://forms.gle/t3RXnpxHQuizqWDRA), addressing all components listed below in the form of a template/survey.

1. **A short pitch (300 words):** This is the pitch of your idea submitted via the form of a short abstract. Please include
   1. Problem statement/research question
   2. Proposed method and usage of AIrTonomy
   3. Expected outcome
   4. Scientific contribution.
2. **An extended abstract plus interactive material (e.g. slides, videos, audio files, animations, etc.):** This extended abstract submitted in the form of a .PDF should provide more detailed information about your study and how you envision to use AIrTonomy. The extended abstract is only due by August 31, 2024 and only required if you want to present at the workshop and to qualify for one of our awards. We encourage you to use UML language (use cases), visualizations, or other means to illustrate your use case in an easy to grasp way. You can also attach slides, and short videos if you wish to do so. Citations are not required but encouraged. We have developed a template for your written and slides here.
3. **Complementary info:** During the submission process you will be asked to answer a few questions related to each of our components. It will help us to better understand your needs and how we need to adjust.

**Submission Template for Extended Abstract**

This is Short Title of the paper, used in page headers

This is the subtitle of the paper, this document both explains and embodies the submission format for authors using Word

First Author's Name, Initials, and Last name[[1]](#footnote-0)\*

First author's affiliation, an Institution with a very long name, xxxx@gmail.com

Second Author's Name, Initials, and Last Name

Second author's affiliation, possibly the same institution, xxxx@gmail.com

Add your brief abstract here.

**CCS CONCEPTS •** Insert your first CCS term here • Insert your second CCS term here • Insert your third CCS term here

**Additional Keywords and Phrases:** Keyword 1, Keyword 2, Keyword 3, Keyword 4

**ACM Reference Format:**

First Author’s Name, Initials, and Last Name, Second Author’s Name, Initials, and Last Name, and Third Author’s Name, Initials, and Last Name. The Title of the Paper:

1. **Research Question**

Introduction to the research question

Body paragraph 1

Body paragraph 2

* 1. **What is the research question that you would like to answer?**

Body paragraph 1

Body paragraph 2

* 1. **Subheading 1**

Body paragraph 1

Body paragraph 2

1. **Proposed Method**

Introduction paragraph of your proposed method. Introduction paragraph of your proposed method.

Body paragraph 1

Body paragraph 2

A diagram of a diagram of a group of people working at a computer

Description automatically generated

Figure 1: Example Image 1, via AIrTonomy Website, <https://www.purdue.edu/computes/airtonomy-workshop/>

* 1. **What Components of the AIrTonomy Infrastructure would you like to Use?**

Body Paragraph 1

Body Paragraph 2

Table 1: Example Table

| Column 1 | Column 2 | Column 3 | Column 4 |
| --- | --- | --- | --- |
| Column data | Column data | Column data | Column data |
| Column data | Column data | Column data | Column data |

a This is an example of a table footnote.

* 1. **Additional Information about the Proposed Method**

Body paragraph 1

* 1. *Heading*

Body paragraph 1

Body paragraph 2

* 1. *Heading*

Body paragraph 1

Body paragraph 2

* 1. **Supporting Images**

Body Paragraph 1

Body Paragraph 2

A poster for a workshop

Description automatically generated

Figure 2: Example Image 2, via AIrTonomy Website, <https://www.purdue.edu/computes/airtonomy-workshop/>



Figure 3: Example Image 3, via Smart Crossways Website, <https://www.purdue.edu/computes/aida3/smart-crossways-of-america-launch-event/>

1. **Expected Outcome**

Introduction paragraph about the expected outcome

* 1. **How would you use the Components to Design and Validate AI/ML Models, Architectures, and Systems?**

Body paragraph 1

Body paragraph 2

* 1. **Additional Information**

Body paragraph 1

Body paragraph 2

1. **Scientific Contribution**

Introduction to the scientific contribution of the proposed research use case.

Body paragraph 1

Body paragraph 2

* 1. **Additional Information**

Body paragraph 1

Body paragraph 2

**ACKNOWLEDGMENTS**

Please include your acknowledgments in this section.

**REFERENCES**

1. Reference 1
2. Reference 2
3. Reference 3

1. [↑](#footnote-ref-0)