Enter Project Title Here

Submission date: Click or tap to enter a date.

Please replace all explanatory text when completing this proposal.

1. **Participants**

Please list your team’s participating researchers, beginning with the principal investigator.

|  |  |  |
| --- | --- | --- |
| **Name** | **Affiliation** | **Email Address** |
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1. **Project Abstract**

|  |
| --- |
| **Research Vector:** Choose an item. |
| Brief description of the project’s goal, scope, and impact. (Not more than a few sentences.) |

1. **Project Description**

Please write a 1-2 page project description covering the following aspects:

* What problem will this project attempt to solve, with respect to the current state-of-the-art?
* What approach and methods do you expect to apply?
* How does your approach compare to prior work?
* Relate your approach to other past/present work by the participants. Why do you expect this team to succeed?
* What unique value does the Loihi architecture (and/or neuromorphic hardware in general) offer for this solution?
* How will you quantitatively evaluate the results in relation to prior work?
* Define success for this project and describe the impact of a successful outcome.
* Include citations to past related work.

For RV2 (algorithms) research proposals, please complete the Algorithm Assessment (Section 10) to provide further specific details about the motivation and aims of the project. For RV3 (applications) proposals, please complete the Application Assessment (Section 11).

1. **Research Plan**

Describe your research plan. Include:

* Deliverables (e.g. papers, seminars, code enhancements or new INRC modules, physical systems you expect to build.)
* Personnel (Who will do what?)
* Milestones (key events that indicate progress), with targeted completion dates.
* Technical tradeoffs that may have to be made
1. **Loihi Resource Needs**

[ ]  Project will require on-site use of physical Loihi systems

[ ]  Project specifically targets Loihi 2 capabilities

Please indicate your Loihi system needs:

* Size of networks your project will prototype, in expected number of chips.
* What Loihi cloud development resources do you foresee needing? For example, will occasional access to a single Loihi system suffice over the duration of the project to validate analytical models, or will you expect to continuously run many concurrent instances of your networks for hyperparameter optimization purposes?
* Describe and justify your need for physical Loihi systems and/or chips.
1. **Material Deliverables**

Please describe what you specifically expect to contribute to the INRC for common use. These will often include the following:

* Software modules or code enhancements contributed to a Lava GitHub repository, or some other publicly available software repository.
* Papers, tutorials, and seminars that allow other INRC members to replicate and apply your findings.
* New datasets and benchmarking methodologies
1. **Intellectual Property**

In general, we hope each INRC member will freely share the intellectual property they create through their work as part of the research community for other INRC members’ use, and to the public domain in general. We understand this is not always possible for corporate members.

In this section, please detail your plans for IP ownership any background IP restrictions. Establishing clear and fair intellectual property rights is essential for INRC access. These matters will be resolved with your organization’s technology transfer office or legal department.

Please note that any academic project that receives Intel funding will be required to contribute all IP created as part of the project to the public domain as a condition for selection.

1. **Submission Process**

Please submit an electronic copy of your proposal to the INRC Application:

<https://intel.az1.qualtrics.com/jfe/form/SV_eXyVwVTaQNb9DtY>

You should receive an email confirmation from Intel Labs acknowledging the receipt of your proposal.