

Table of contents

1 Repository Context: publications	1
1.1 Purpose	1
1.2 Key Locations	1
1.3 Content Workflow	1
1.4 Deployment Notes	1
1.5 Prerequisites for Local Work	1
1.6 Miscellaneous	2

1 Repository Context: publications

1.1 Purpose

- Quarto-powered hub for neuromorphic computing, AI, and machine-learning publications.
- Houses research-grade papers (HTML + PDF) and supporting blog posts (including notebook-style explorations).
- GitHub Pages serves the rendered website via the Quarto CLI and GitHub Actions.

1.2 Key Locations

- `_quarto.yml` — Project/website configuration (navbar, theme, metadata cascade).
- `index.qmd` — Home page showing the latest entries from `blog/`.
- `about.qmd` — Project mission statement.
- `papers/` — Research manuscripts; shared format defaults in `_metadata.yml`.
- `blog/` — Posts and notebooks; filenames follow `YYYY-MM-DD-title.qmd` or `.ipynb`.
- `.github/workflows/publish.yml` — GitHub Pages deployment pipeline (renders site and PDFs).

1.3 Content Workflow

1. Author new material in the appropriate folder (`papers/` or `blog/`).
2. Ensure front matter includes at least `title` and `date`; add `categories` for listings.
3. Run `quarto render` locally to check output; PDFs generated via TinyTeX when needed.
4. Commit changes and push to `main`; the GitHub Actions workflow redeploys `_site/`.

1.4 Deployment Notes

- `_quarto.yml` should reference the correct canonical URLs for the GitHub Pages site.
- GitHub Pages should be configured to use the “GitHub Actions” source.
- Workflow installs Quarto and TinyTeX on CI; keep the repository lean to avoid long installs.

1.5 Prerequisites for Local Work

- Quarto CLI installed (<https://quarto.org/docs/get-started/>).
- LaTeX engine (TinyTeX recommended: `quarto install tool tinytex`) for PDF builds.
- Optional: Jupyter kernels for executing notebooks; disable execution (`execute.enabled: false`) when stubs are checked in.

1.6 Miscellaneous

- Site metadata targets neuromorphic computing; adjust titles/tags as scope expands.
- Avoid committing large datasets or artifacts; host externally if needed.
- Listings rely on file hierarchy; blog automatically surfaces any files stored beneath it.