# Theme 5: Generic Software Architecture

Too often research code and ideas fail to gain uptake by their intended audience. This theme focuses on ensuring uptake by our industry partners through using a software engineering team, funded by the Partner Organisations, to work "between" the researcher and the deployment/integration teams of the Partners. This skilled programming team will work with researchers to convert research artefacts such as algorithms and prototype code into professional solutions leveraging existing open source or commercial platforms to enable ease of uptake by industry partners or 3rd party MaintTech firms.

Where suitable, a "common platform" will be established to deliver artefacts such that partners have consistently implemented artefact interfaces (reduced cost for uptake). Finally, the result of this theme will ensure tangible software components available beyond a research context.

## Publications

- DRAT: Data risk assessment Tool for University-Industry collaborations (...) —

## Journal Article

### Prof Melinda Hodkiewicz

**Authors: Sikorska, J., Bradley, S., Hodkiewicz, M. and Fraser, R.**
2020-12-11

## Presentations

- eResearch 2019 (...) —





### Sam Bradley

Senior Software Engineer

**Theme 5**
2019-10-21

- [Industrial Equipment Reference Data Sets - a review of structures and utility](...) —



## Dr Jens Klump

Theme Lead

### Theme 5
2022-11-15

- [Periscope: A tool for centralised asset reliability assessment powered by NLP](...) —

## Tyler Bikaun

PhD Student

### Theme 1
2022-06-03

- The International Conference on Smart Computing & Communications (ICSCC 2019) (...) —





## Prof Andrew Rohl

Training Centre
Director

**Directorate**
2019-06-29

- Unlocking industry data in
  research/industry partnerships
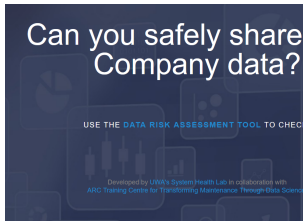  and working towards a FAIR
  data future (...) —



John Hille

Research Fellow

**Theme 5**
2020-04-29
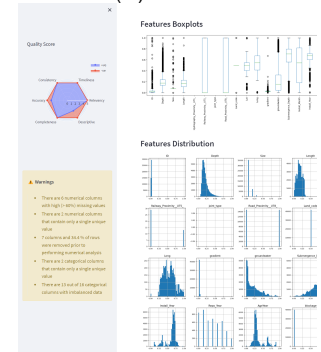
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Tools

- Data Risk Assessment Tool (...)
  —



2020-01-31
Can you safely
share your
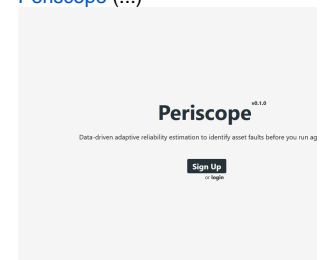company data?

## Theme 1 Theme 5

- IDEA Tool (...) —



2022-07-06
Evaluate the appropriateness of data for the purposes of maintenance predictive analytics

## Theme 2 Theme 5

- Periscope (...) —



2020-01-31
Data-driven adaptive reliability estimation to identify asset faults before you run aground

## Theme 1 Theme 5

- Schedule Optimisation Tools (...) —



2020-01-31
Tools for common schedule optimisation problems

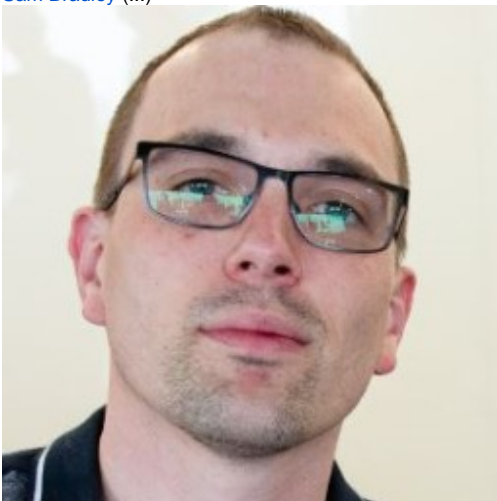## Theme 3 Theme 5

# The Team

## Lead

- [Dr Jens Klump](...) (...) —



### [Dr Jens Klump](...)

Theme Lead

**[Theme 5](...)**

## Engineers

- [Sam Bradley](...) (...) —



### [Sam Bradley](...)

Senior Software Engineer

**[Theme 5](...)**
- [Yunlong Li](...) (...) —

Yunlong Li

Senior Research Technician

**Theme 5**