

Edinburgh Software Research White Paper

Current Achievements / Future Challenges



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Dave Robertson



Current Achievements

Reliably relating symbolic descriptions to real-world entities

Trusted application of machine learning systems

Relating semi/un-structured knowledge to structured data

Systems for large scale computation over knowledge graphs

Improving the robustness of large scale systems

New conceptual structures for system design

New constructs+semantics for programming languages

Unifying high-level abstractions across cloud applications

Optimising compilers for task/domain-specific languages

New chip and network designs for data-intensive processing

Trustworthy autonomous systems

Rigorous systems/data engineering

Substrates for future computation

Future Challenges

