

Prognosis software

Academic Licence 1.00

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Software shall mean the Prognosis software, as more fully described in the Schedule attached hereto.

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9 Acknowledgements

The Licensee shall acknowledge the Authors and use of the Software in the publication of any work that uses, or results that are achieved through, the use of the Software. The following citation shall be included in the acknowledgement: Tiago Ferreira (UCL), Harrison Brewton (UWM), Loris D'Antoni (UWM), Alexandra Silva (UCL).

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10.1 Assignment and Sub-Licensing. Except as permitted under this Agreement, the Licensee is not entitled to assign, sub-contract or sub-license to any third party any of its rights or obligations under this Agreement without the Licensors prior written consent.

10.2 Severability. If any part, term or provision of this Agreement be held illegal or unenforceable the validity or enforceability of the remainder of this Agreement shall not be affected and the Parties shall use their best endeavours to agree a replacement term with as nearly as possible the same legal effect.

10.3 Entire Agreement. This Agreement supersedes and cancels all previous agreements and working arrangements whether oral or written, express or implied between the Parties in respect of or in connection with the matters referred to in this Agreement. The Parties agree that neither of them is relying on any representation, warranty, condition or other provision that is not expressly set out in this Agreement.

10.4 No Waiver. No waiver of any term or condition of this Agreement shall be effective unless made in writing and signed by the Party against which enforcement of the waiver is sought. The waiver of any breach of any term or any condition of this Agreement shall not be construed as a waiver of any subsequent breach of a term or condition of the same or a different nature.

10.5 Third Parties. For the purposes of the Contracts (Right of Third Parties) Act 1999, and notwithstanding any other provision of this Agreement, this Agreement is not intended to, and does not give any person who is not a party to it any right to enforce any of its provisions.

10.6 The provisions contained in Clauses 6 to 11 shall survive any termination of this Agreement.

11 Governing Law

This Agreement shall be governed by, construed and interpreted in accordance with English law and the Parties submit to the exclusive jurisdiction of the English courts.

Schedule

Prognosis is a framework offering automated closed-box learning and analysis of models of network protocol implementations. Prognosis can learn models that vary in abstraction level from simple deterministic automata to models containing data operations, such as register updates, and can be used to unlock a variety of analysis techniques -- model checking temporal properties, computing differences between models of two implementations of the same protocol, or improving testing via model-based test generation. Prognosis is modular and easily adaptable to different protocols (e.g. TCP and QUIC) and their implementations.

Prognosis is implemented in Java, Python, and other languages. The modules are Docker-ready, and are configured by a central YAML config file.