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Preventing disputes: preventive logic, law & technology

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PREVENTING DISPUTES

Preventive Logic, Law & Technology

Georgios Stathis



Universiteit
Leiden
The Netherlands

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Preventive Logic, Law & Technology

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Dedicated to my parents

Life is the struggle against death

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List of Abbreviations

AI	Artificial Intelligence
AIDM	Automated Individual Decision-Making
AILD	Artificial Intelligence Liability Directive
API	Application Programming Interface
CAI	Conversational AI
CK	Cohen’s Kappa
CUAD	Contract Understanding Atticus Dataset
DOAM	Description of a Model Ontology
DL	Deep Learning
DS	Data Science
EBA	Ethics-Based Auditing
EBTO	Enriched Bow-Tie Ontology
ECAI	European Conference on Artificial Intelligence
eFLINT	electronic Formal Language for the INTerpretation of sources of norms
FDI	Foreign Direct Investment
FIBO	Financial Industry Business Ontology
FOAF	Friend of a Friend

GDP	Gross Domestic Product
GDPR	General Data Protection Regulation
GR	Good Relations Vocabulary
GUI	Graphical User Interface
iContracts	Intelligent Contracts
IML	Interpretable Machine Learning
IoT	Internet of Things
ISO	International Organization for Standardization
KBS	Knowledge-Based Structures
KG	Knowledge Graph
LIME	Local Interpretable Model Agnostic Explanation
LLM	Large Language Model
LM	Logocratic Method
LOV	Linked Open Vocabularies
LRM	Legal Risk Management
LTAI	Legally Trustworthy Artificial Intelligence
ML	Machine Learning
NDA	Non-Disclosure Agreement
NLP	Natural Language Processing
NPS	Net Promoter Score
OECD	Organisation for Economic Cooperation and Development
ORM	Open Risk Management
OWL	Web Ontology Language

PCD	Proactive Control Data
PLD	Product Liability Directive
PLT	Preventive Legal Technology
PPL	Preventive/Proactive Law
PS	Problem Statement
RAG	Retrieval-Augmented Generation
RAGA	Retrieval-Augmented Generation Algorithms
RFO	Risk Function Ontology
RDF	Resource Description Framework
RDF/S	Resource Description Framework Schema
RQ	Research Question
R&D	Research and Development
SHAP	SHapley Additive exPlanations
SWRL	Semantic Web Rule Language
TAI	Trustworthy Artificial Intelligence
TNO	Netherlands Institute for Applied Scientific Research
US(A)	United States of America
XAI	Explainable Artificial Intelligence
W3C	World Wide Web Consortium

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