Appendix A.

Table A.1: Literature Mapping ACM Digital Library (Strategy I)

LID	Summary	Category
L1	Software Performance Antipatterns in Cyber-Physical Systems	C2.1
L2	Identifying software performance changes across variants and versions	C2.1
L3	Towards detecting software performance anti-patterns using classification techniques	C2.1
L4	Automatically Detecting "Excessive Dynamic Memory Allocations" Software Performance Anti-Pattern	C2.1
L5	Systematic adoption of genetic programming for deriving software performance curves	C4.2
L6	Scaling size and parameter spaces in variability-aware software performance models	C4.2
L7	Efficient optimization of software performance models via parameter-space pruning	C4.3
L8	Antipattern-based model refactoring for software performance improvement	C5.1
L9	Testability and software performance: a systematic mapping study	C6.1
L10	Model Driven Software Performance Engineering: Current Challenges and Way Ahead	C6.2
L11	User-friendly approach for handling performance parameters during predictive software performance engineering	C6.4
L12	Towards software performance engineering for multicore and manycore systems	C6.4

Table A.2: Literature Mapping Google Scholar (Strategy I)

LID	Summary	Category
L13	Detection and Solution of Software Performance Antipatterns in Palladio Architectural Models	C2.1
L14	Towards virtualized and automated software performance test architecture	C2.2
L15	A Declarative Approach for Performance Tests Execution in Continuous Software Development Environments	C2.2
L16	Statistical Inference of Software Performance Models for Parametric Performance Completions	C4.1
L17	An Efficient Method for Uncertainty Propagation in Robust Software Performance Estimation	C4.1
L18	Facilitating Performance Predictions Using Software Components	C4.1
L19	A Prediction Model for Software Performance in Symmetric Multiprocessing Environments	C4.1
L20	A Petri net tool for software performance estimation based on upper throughput bounds	C4.1
L21	Architecture-level software performance abstractions for online performance prediction	C4.1
L22	Software performance prediction with a time scaling scheduling profiler	C4.1
L23	Performance Prediction of Configurable Software Systems by Fourier Learning (T)	C4.1
L24	DeepPerf: Performance Prediction for Configurable Software with Deep Sparse Neural Network	C4.1
L25	Implementation of the Software Performance Engineering Development Process	C4.2
L26	Performance-Influence Model for Highly Configurable Software with Fourier Learning and Lasso Regression	C4.2
L27	Software performance simulation strategies for high-level embedded system design	C4.4
L28	Rule-based automatic software performance diagnosis and improvement	C5.1
L29	Improving software performance and reliability in a distributed and concurrent environment with an architecture-based self-adaptive framework	C5.3
L30	Software Performance Self-Adaptation through Efficient Model Predictive Control	C5.3
L31	Performance Analysis for Object-Oriented Software: A Systematic Mapping	C6.3
L32	Caliper: performance introspection for HPC software stacks	C6.4
L33	Transformation challenges: from software models to performance models	C6.4
L34	Five Layered Model for Identification of Software Performance Requirements	C6.3
L35	Completion and Extension Techniques for Enterprise Software Performance Engineering	C6.4

Table A.3: Literature Mapping DBLP (Strategy I)

LID	Summary	Category
L36	Software Performance Modeling using the UML: a Case Study	C4.2
L37	Predicting the software performance during feasibility study	C4.2
L38	Automatic object deployment for software performance enhancement	C5.1
L39	Design and Modeling in the Software Performance Engineering Development Process	C6.4
L40	Cost-aware scheduling for ensuring software performance and reliability under heterogeneous workloads of hybrid cloud	C6.4

Table A.4: Literature Mapping IEEE Explore (Strategy I)

LID	Summary	Category
L41	Discovering, reporting, and fixing performance bugs.	C1.1
L42	Understanding and detecting real-world performance bugs	C1.1
L43	A qualitative study on performance bugs.	C1.1
L44	Reproducing performance bug reports in server applications: The researchers' experiences.	C1.1
L45	An empirical study on performance bugs for highly configurable software systems.	C1.2
L46	Performance modeling: understanding the past and predicting the future	C1.3
L47	Performance analysis of idle programs.	C2.1
L48	Syncprof: Detecting, localizing, and optimizing synchronization bottlenecks.	C2.1
L49	Catch me if you can: Performance bug detection in the wild.	C2.1
L50	Uncovering performance problems in java applications with reference propagation profiling.	C2.1
L51	Static detection of asymptotic performance bugs in collection traversals.	C2.1
L52	Supporting swift reaction: Automatically uncovering performance problems by systematic experiments	C2.1
L53	Context-sensitive delta inference for identifying workload-dependent performance bottlenecks.	C2.1
L54	Eventbreak: Analyzing the responsiveness of user interfaces through performance-guided test generation.	C2.2
L55	Automatically finding performance problems with feedback-directed learning software testing.	C2.2
L56	Automatic generation of load tests.	C2.2
L57	Wise: Automated test generation for worst-case complexity.	C2.2
L58	Automatic generation of load tests.	C2.2
L59	Toddler: Detecting performance problems via similar memory-access patterns.	C2.3
L60	Performance regression testing target prioritization via performance risk analysis.	C2.4
L61	Performance regression testing of concurrent classes.	C2.4
L62	X-ray: Automating root-cause diagnosis of performance anomalies in production software.	C3.1
L63	Performance debugging in the large via mining millions of stack traces	C3.3
L64	On performance debugging of unnecessary lock contentions on multicore processors	C3.3
L65	Critical lock analysis: Diagnosing critical section bottlenecks in multithreaded applications	C3.3
L66	Analyzing lock contention in multithreaded applications.	C3.3
L67	Variability-aware performance prediction: A statistical learning approach.	C4.1
L68	Mantis: Automatic performance prediction for smartphone applications.	C4.2
L69	Performance-influence models for highly configurable systems.	C4.2
L70	Automated analysis of multithreaded programs for performance modeling.	C4.2
L71	Finding reusable data structures.	C5.1
L72	A survey on load testing of large-scale software systems	C6.1

Table A.5: Research Literature Venues (Strategy I)

Venue	# Paper
International Conference on Software Engineering (ICSE)	10
International Conference on Automated Software Engineering (ASE)	6
Programming Language Design and Implementation (PLDI)	2
Object oriented programming systems languages and applications (OOPSLA)	4
Operating Systems Design and Implementation (OSDI)	1
International Symposium on Software Testing and Analysis (ISSTA)	2
Empirical Software Engineering and Measurement (ESEM)	1
Mining Software Repositories (MSR)	2
International Conference on Performance engineering (ICPE)	3
ICSE SEIP	1
International conference on autonomic computing (ICAC)	1
International Conference on Software Maintenance (ICSM)	2
European Conference on Object-Oriented Programming (ECOOP)	1
Asia-Pacific Web Conference	1
ACM Symposium on Cloud Computing	1
Principles and Practice of Parallel Programming (PPoPP)	1
High Performance Computing, Networking, Storage and Analysis	2
International Symposium on Code Generation and Optimization	1
USENIX ATC	1
Quality of Software Architectures (QoSA)	1
International Conference on Computing, Communication and Security (ICCCS)	1
International Conference on the Quantitative Evaluation of Systems (QEST)	1
Software Engineering Research, Management and Applications (SERA)	1
Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS)	1
International Conference on Computer and Information Science (ACIS)	1
Automated Software Engineering (ASE)	2
IEEE Transactions on Software Engineering	1
Journal of Systems and Software	3
Software: Practice and Experience	1
Performance Evaluation	2
Software and Systems Modeling	2
Multimedia Tools and Applications	1
Journal of Software Engineering and Knowledge Engineering	1
IEEE Software	1
Design Automation for Embedded Systems volume	1
Science of Computer Programming	1
Future Business Software	1
International Journal of Software Engineering & Applications (IJSEA)	1
Journal of Software	1