

1 **Title**

2 **Your Name**

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5 The University of ..., Country

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Abstract

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List of Symbols

	\mathbb{R}	Real number
	\mathbb{C}	Complex number
	δ_{ij}	Kronecker delta
30	I	Identity matrix
	\mathcal{H}	Hilbert space
	\mathcal{O}	Big-O notation
	$i, j, k, l; p, q, r, s$	Indices

³¹ Glossary and Abbreviations

	ML	Machine Learning
	TN	Tensor Network
	MPS	Matrix Product State
³²	SPSA	Simultaneous Perturbation Stochastic Approximation
	RKHS	Reproducing Kernel Hilbert Space
	SVM	Support Vector Machine
	SGD	Stochastic Gradient Descent

Chapter 1

Introduction

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77 Chapter 2

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91 Appendix A

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