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978-0-521-86467-1 - Algebraic Geometry and Statistical Learning Theory Sumio Watanabe Frontmatter More information. Preface In this book, we introduce a fundamental relation

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between algebraic geometry and statistical learning theory. A lot of statistical models and learning machines used in information sci-

25 Algebraic Geometry and Statistical Learning Theory

Algebraic Geometry and Statistical Learning Theory Sumio Watanabe Tokyo Institute of Technology December 17, 2009 Abstract This article introduces the book, "algebraic geometry and statistical learning theory. " A parametric model in statistics or a learning machine in information science is called

An Introduction to Algebraic Geometry and Statistical ...

Algebraic geometry and singularity theory provide the mathematical foundation on which a new statistical learning theory is constructed. For example, resolution of singularities is a powerful method which makes the log likelihood function be a common

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Algebraic Geometry and Statistical Learning Theory (□□)

Algebraic geometry is essential to learning theory. In hierarchical learning machines such as layered neural networks and gaussian mixtures, the asymptotic normality does not hold, since Fisher information matrices are singular. In this paper, the rigorous asymptotic form of the stochastic complexity is clarified based on resolu

Algebraic Information Geometry for Learning Machines with ...

I am interested in applications of algebraic geometry to machine learning. I have found some papers and books, mainly by Bernd Sturmfels on algebraic statistics and machine learning. However, all this seems to be only applicable to rather low dimensional toy problems.

st.statistics - Applications of algebraic geometry to ...

DOI: 10.1017/CBO9780511800474

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Watanabe}, year={2009} }

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More specifically, the author uses the resolution of singularities theorem from real algebraic geometry to study statistical learning theory when the parameter space is highly singular. The clarity of the book is outstanding and it should be of great interest to anyone who wants to study not only statistical learning theory but is also interested in yet another application of algebraic geometry.

Algebraic Geometry and Statistical Learning Theory ...

Algebraic Geometry and Statistical
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algebraic geometry to study statistical learning theory when the parameter space is highly singular. The clarity of the book is outstanding and it should be of great interest to anyone who wants to study not only statistical learning theory but is also interested in yet another application of algebraic

Algebraic Geometry And Statistical Learning Theory

In this talk, we give a basic introduction to Sumio Watanabe's Singular Learning Theory, as outlined in his book "Algebraic Geometry and Statistical Learning Theory". Watanabe's key insight to studying singular models was to use a deep result in algebraic geometry known as Hironaka's Resolution of Singularities.

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Singular Learning Theory: a view from Algebraic Geometry ...

Algebraic geometry and statistical learning theory / Sumio Watanabe. p. cm. Includes bibliographical references and index. ISBN 978-0-521-86467-1 (hardback) 1. Computational learning theory – Statistical methods. 2. Geometry, Algebraic. I. Title. Q325.7.W38 2009 006.3 1 – dc22 2009011366 ISBN 978-0-521-86467-1 hardback

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foundations for the use of algebraic geometry in statistical learning theory. Many widely used statistical models and learning machines applied to information science have a parameter space that is singular: mixture models, neural networks, HMMs, Bayesian networks,

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Sumio Watanabe, Algebraic Geometry and Statistical Learning Theory, Cambridge University Press, Cambridge, UK, 2009. Sure to be influential, this book lays the foundations for the use of algebraic geometry in statistical learning theory. Many widely used statistical models and learning machines applied to information science have a parameter space that is singular: mixture models, neural ...

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