

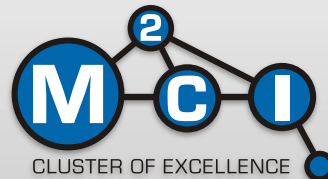
# Geometric Modeling

Summer Semester 2012

## Recommended Literature



UNIVERSITÄT  
DES  
SAARLANDES



# **Main Literature**

(in the lecture's bookshelf, CS  
library)

# Main Textbook: Splines & Co

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**Gerald Farin:** Curves and Surfaces for Computer Aided Geometric Design (Fifth Edition)

Morgan Kaufmann 2002

Available in the lecture's bookshelf (CS library)

# Differential Geometry

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**Alfred Gray:** Modern Differential Geometry of Curves  
and Surfaces with Mathematica<sup>®</sup>  
(Second Edition)

CRC 1997

Available in the lecture's bookshelf (CS library)

# **Additional Literature**

# More on Rational Splines

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**Gerald Farin:** NURBS – from Projective Geometry to Practical Use  
(Second Edition)

Morgan Kaufmann 1999

More details on rational curves & surfaces and projective geometry

# More on Statistical Techniques

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**Richard O. Duda,  
Peter E. Hart,  
David G. Stork:**

Pattern Classification  
(Second Edition)

Wiley & Sons 2000

Lots of material on  
least-squares techniques  
(and much more on statistical data processing)

# Recap Math Topics

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**Recap:** Linear Algebra, Analysis & Numerics

Refer to your lecture notes / standard math textbooks



# More Literature

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**Further Literature: t.b.a.**