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Chapter 1

Support Vector Machines

The support vector machine (SVM) is used widely in the area of pattern recognition. SVMs are ... (but beware, converting the initial letter to upper case for a small caps acronym is sometimes considered poor style).

Short version: SVM. Long version: support vector machine. Full version: support vector machine (SVM). Description: Statistical pattern recognition technique [1].

This is the entry in uppercase: SVM.
Chapter 2

Kernel Support Vector Machines

The kernel support vector machine (K SVM) is an SVM that uses the so called “kernel trick”. This is the entry’s description without a link: Statistical pattern recognition technique using the “kernel trick”.

Possessive: kernel support vector machine’s (K SVM). Make the glossary entry number bold for this one support vector machine (SVM).
Bibliography

[1] ...
Acronyms

kernel support vector machine (K SVM)
Statistical pattern recognition technique using the “kernel trick”. 3, see also SVM

support vector machine (SVM)
Statistical pattern recognition technique [1]. 2, 3