



# Watermarking non-media content

case studies: XML & Databases

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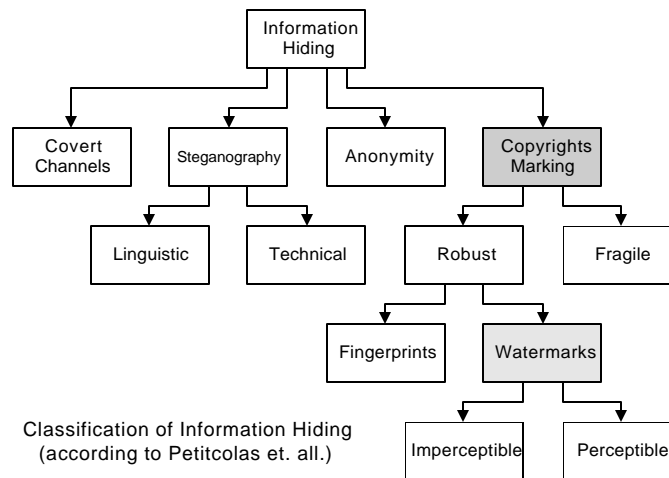
Computer Sciences Department  
Purdue University

<http://www.cs.purdue.edu/homes/sion/papers>

Keywords: Digital Watermarking,  
Steganography, Security,  
Copyright Protection, Databases

ver. 1.04 Tuesday, April 17<sup>th</sup> 2001

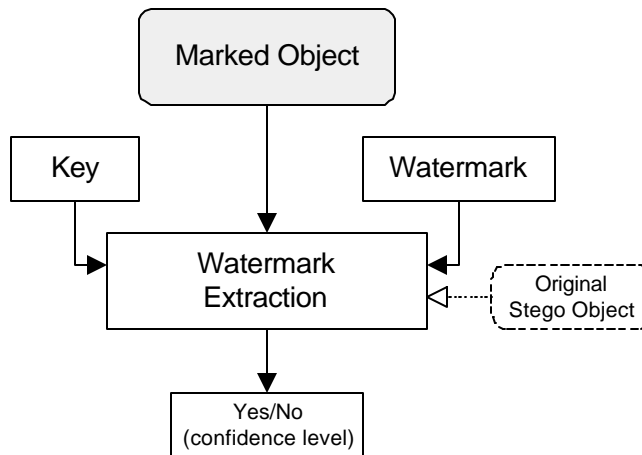
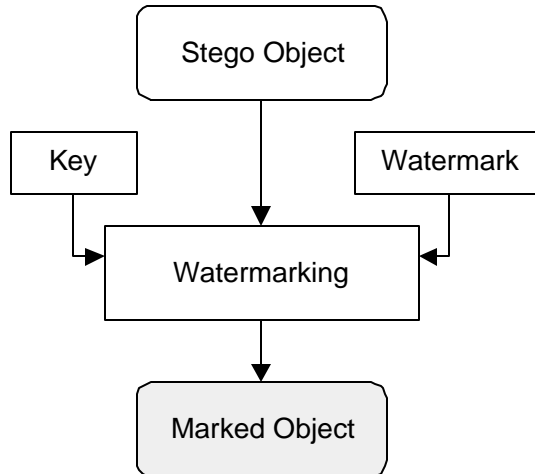
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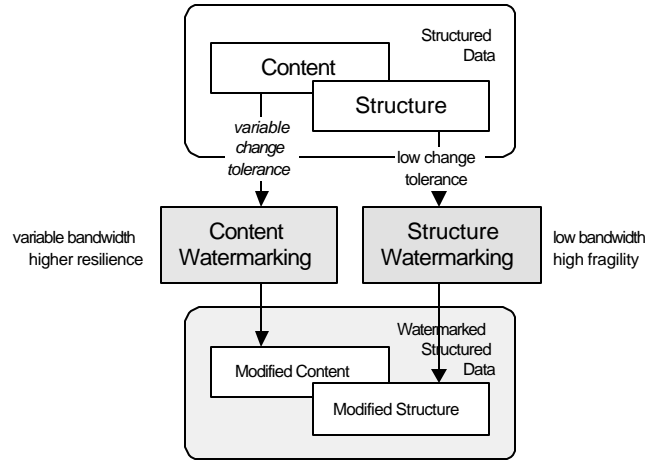
Classification of Information Hiding  
(according to Petitcolas et. all.)

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introduction



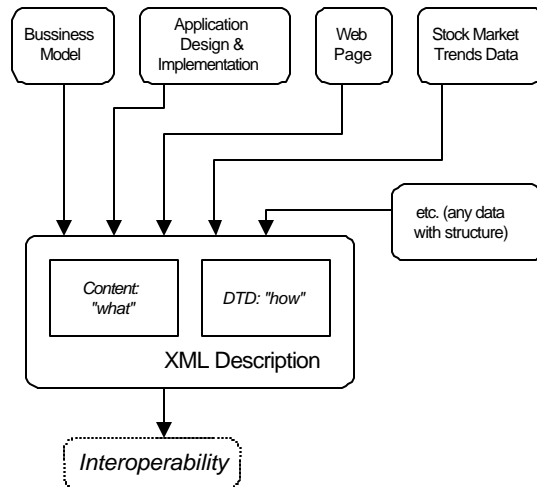
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structured data

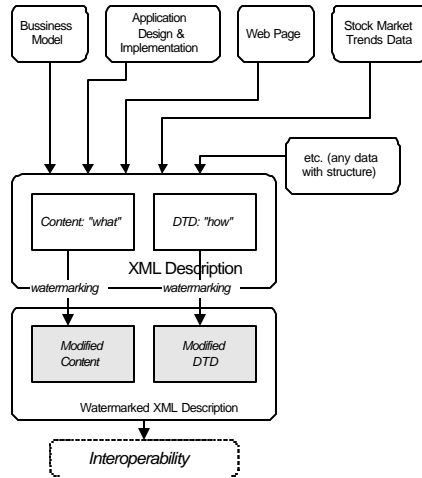
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XML

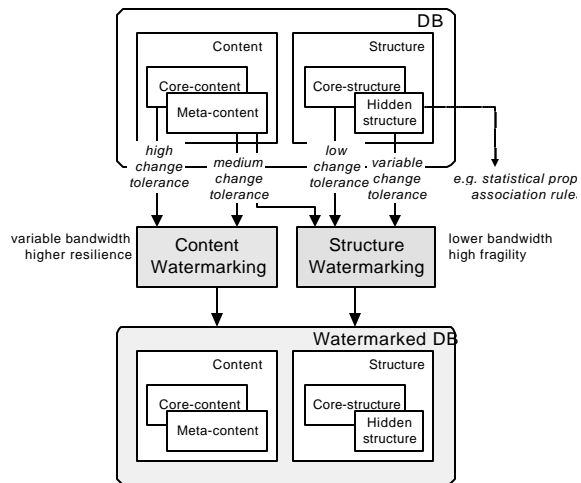
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watermarking XML

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watermarking databases



## Modeling timing patterns using NN

case studies: Network breath Authentication, Keystroke timing, Mouse motion

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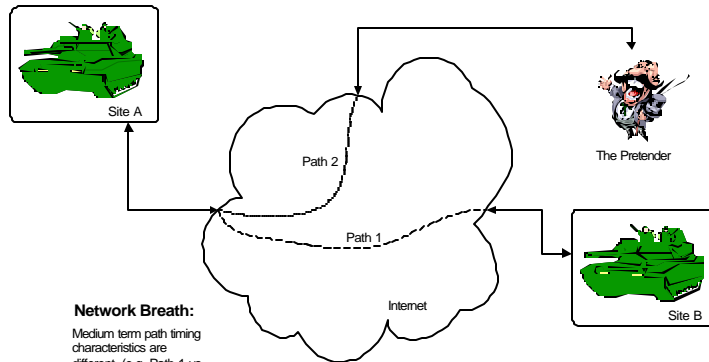
Computer Sciences Department  
Purdue University

<http://www.cs.purdue.edu/homes/sion/papers>

Keywords: Network Security,  
Authentication, Intrusion Detection

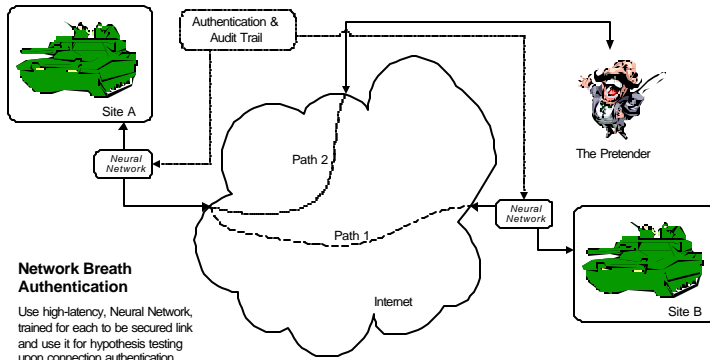
ver. 0.93 Thursday, April 19<sup>th</sup> 2001

Modeling timing patterns using NN.



**Network Breath:**  
Medium term path timing  
characteristics are  
different. (e.g. Path 1 vs.  
Path 2)

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**Network Breath Authentication**  
Use high-latency, Neural Network, trained for each to be secured link and use it for hypothesis testing upon connection authentication.

