



# MOTILAL NEHRU COLLEGE

## UNIVERSITY OF DELHI



### DEPARTMENT OF MATHEMATICS

## PATTERN RECOGNITION

A PRESENTATION TOPIC BELONGS TO LATEX

October 27, 2018

## GROUP MEMBERS DETAILS



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▷ HARIOM

▷ MTH17097

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- ▷ HARIOM
- ▷ ANSHUL
- ▷ MTH17097
- ▷ MTH17095

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# INTRODUCTION



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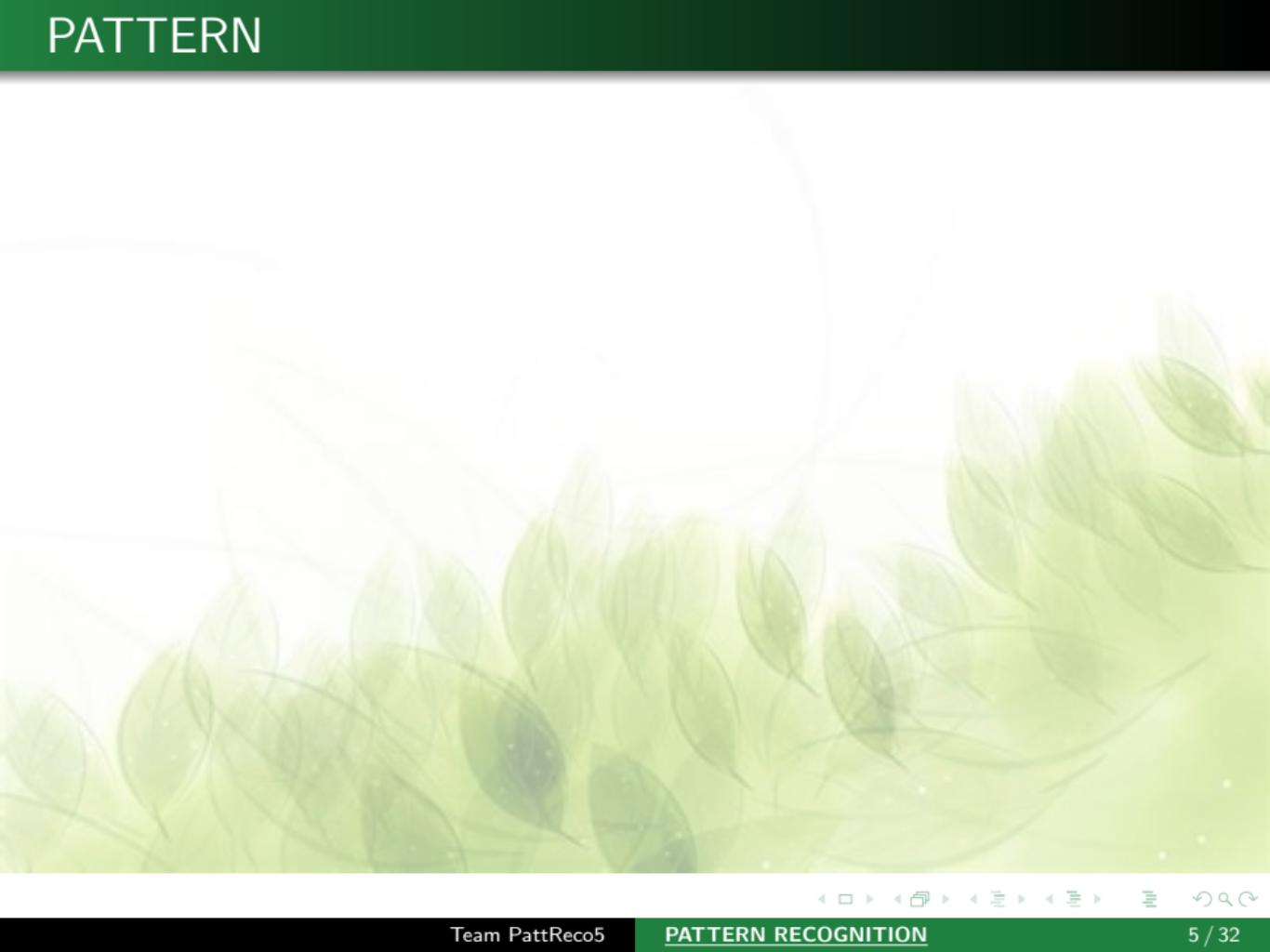


# INTRODUCTION

- \* Pattern Recognition is a branch of Artificial Intelligence.
- \* Humans can recognize the faces without worrying about the varying illuminations. When implementing such recognition artificially, it becomes a very complex task.
- \* The field of Artificial Intelligence has made this complex task possible.



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Figure: DNA sequence

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  - ◆ Prediction: Make sound and reasonable decisions about the categories of the pattern.

# Evolution of Pattern Recognition

Looking at the history, pattern recognition system has come a long way. Earlier it was confined to theoretical research in the field of statistics for deriving various models out of the large amount of data. With the advent in computer technology, number of practical applications is increased in manifold which lead to further theoretical development.

At present, pattern recognition has become integral part of any machine intelligence system that exhibit decision making capabilities.

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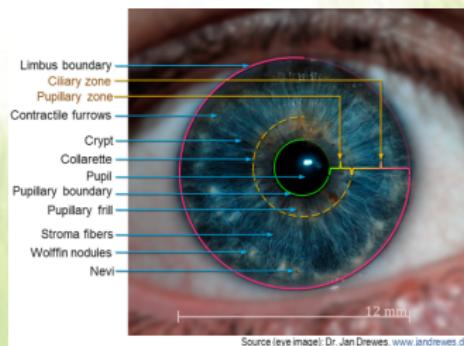


Figure: Eye PRS

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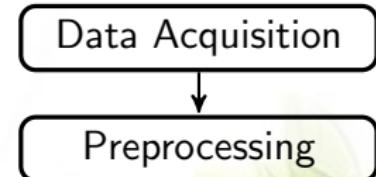
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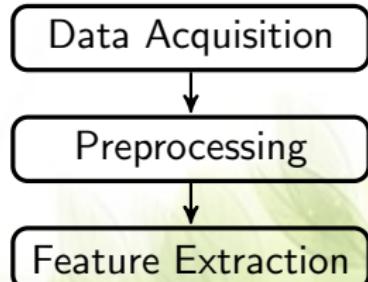
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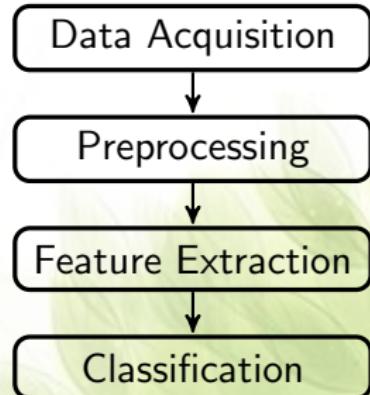
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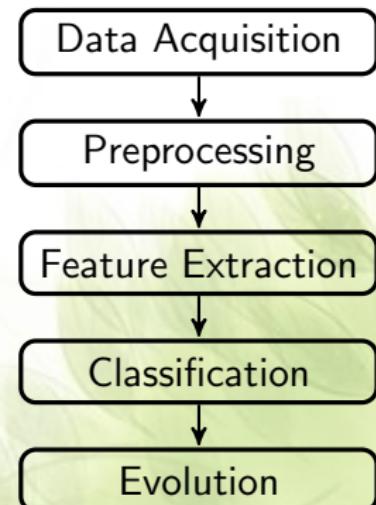
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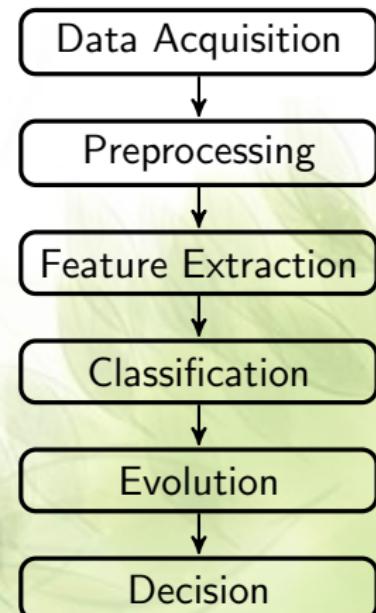
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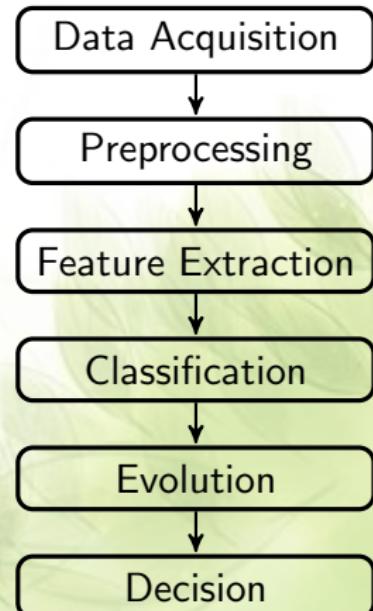
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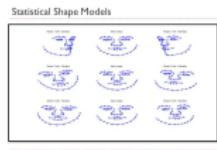
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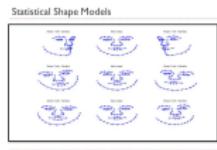
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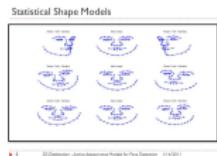
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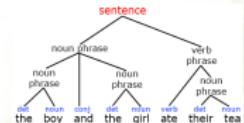


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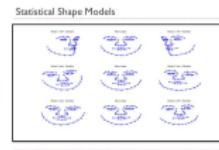


1/12 | 10.2. Syntactic - A句法依存性モデルによる文構造の認識 | 2021/03/21



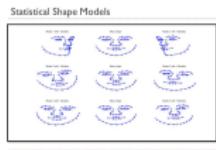
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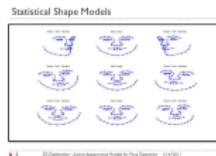


12.2.1 - Statistical Shape Models for Face Detection

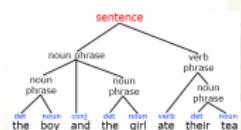


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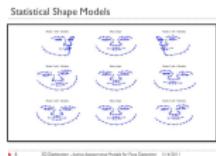
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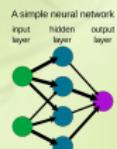
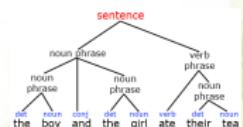
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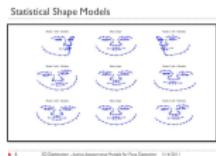


12 Digits - Active Appearance Models for Face Detection 11/1/2011

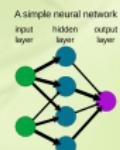
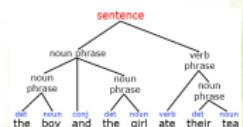


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12 Dimples - Active Appearance Models for Face Detection 11/4/2011



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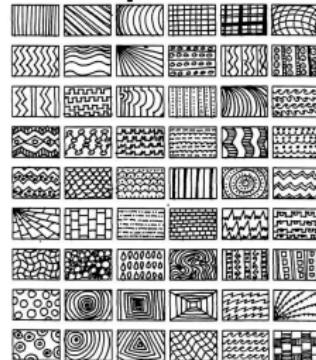
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Examples of line



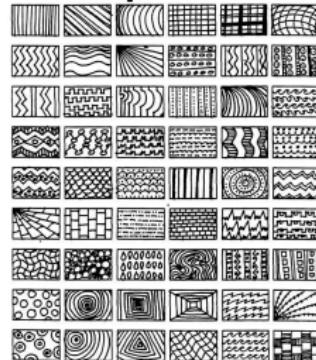
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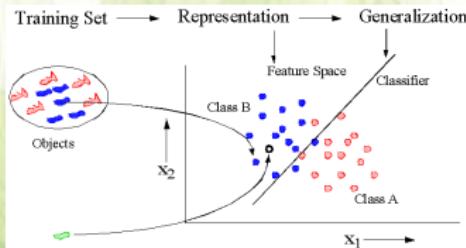


Figure: SR

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Figure: Supervised Learning

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Figure: Supervised Learning

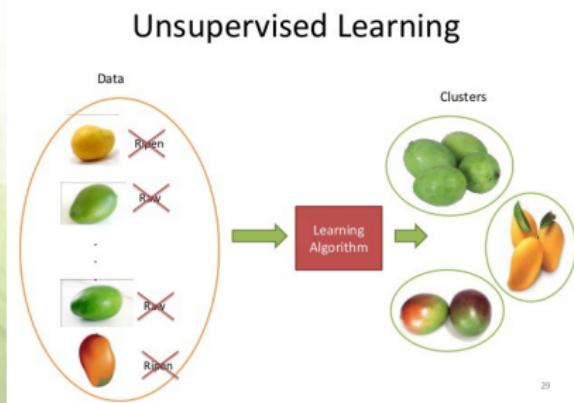
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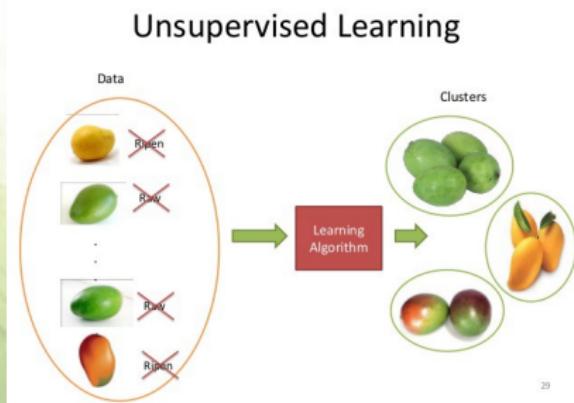
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# APPLICATION OF PATTERN RECOGNITION

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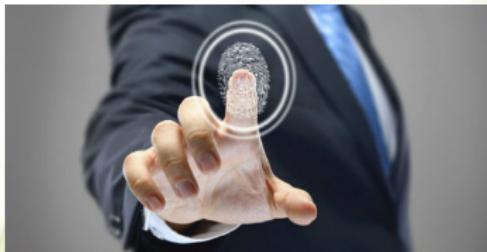


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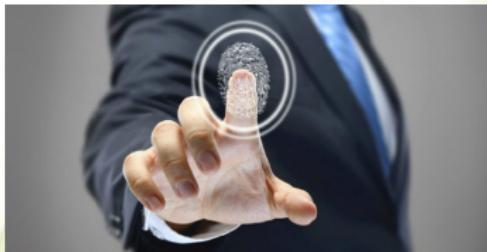


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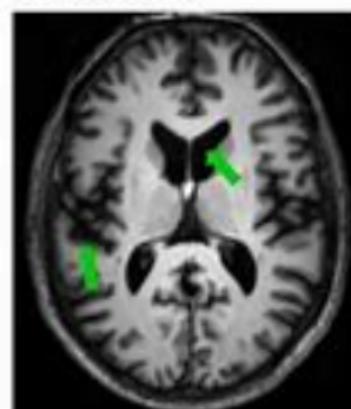
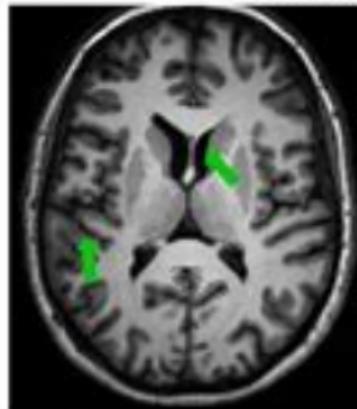
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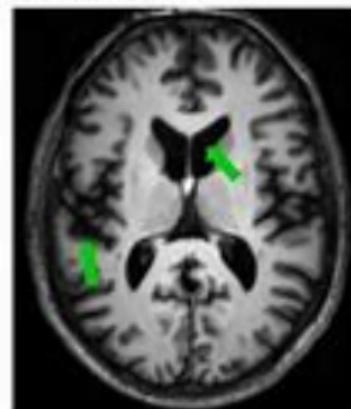
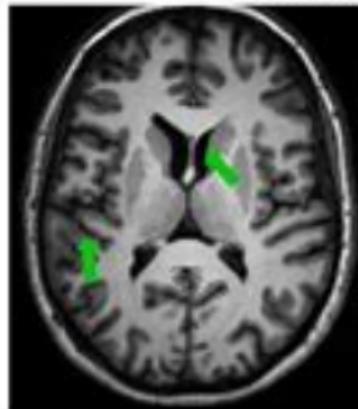
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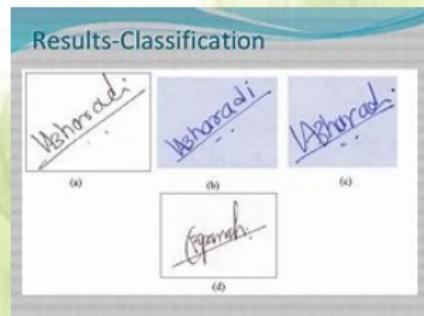


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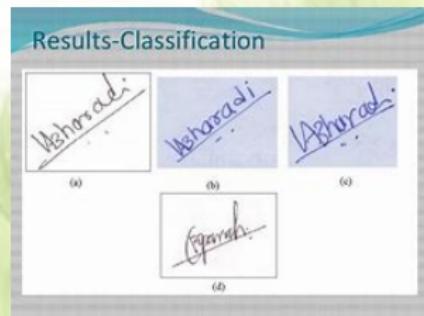


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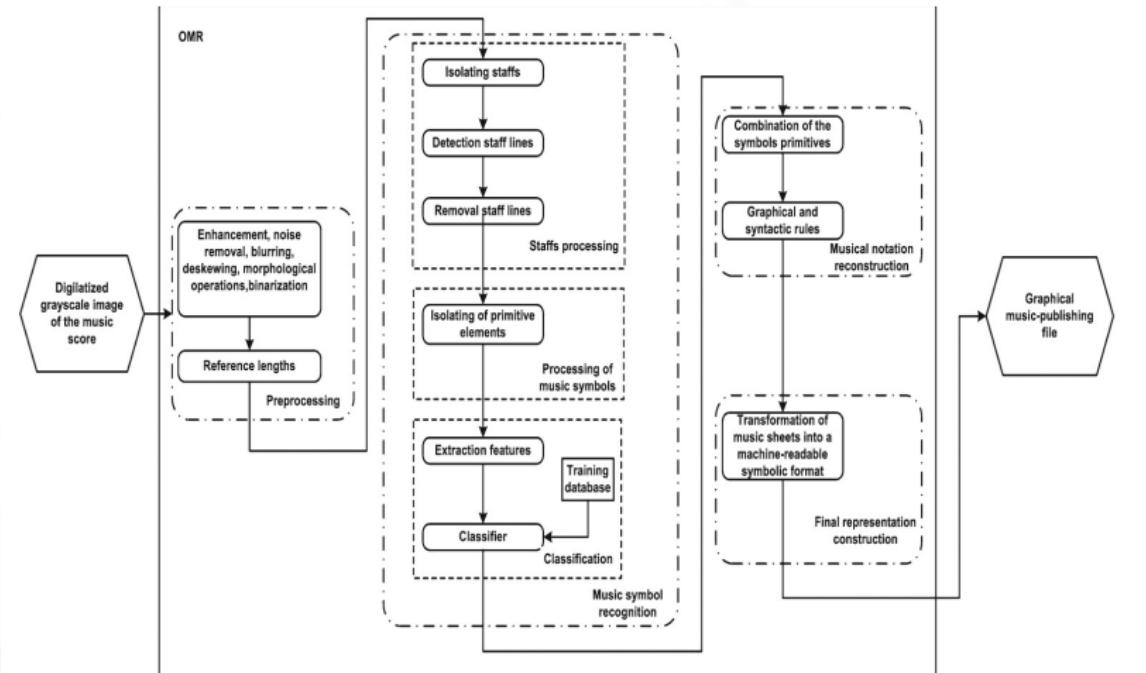


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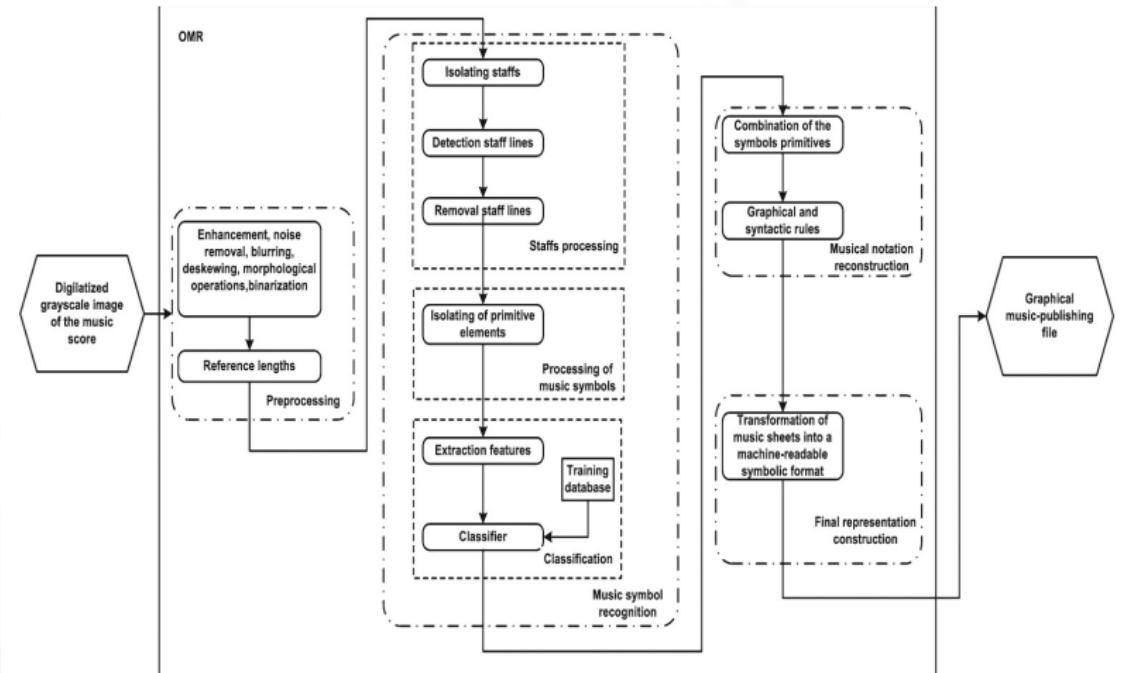
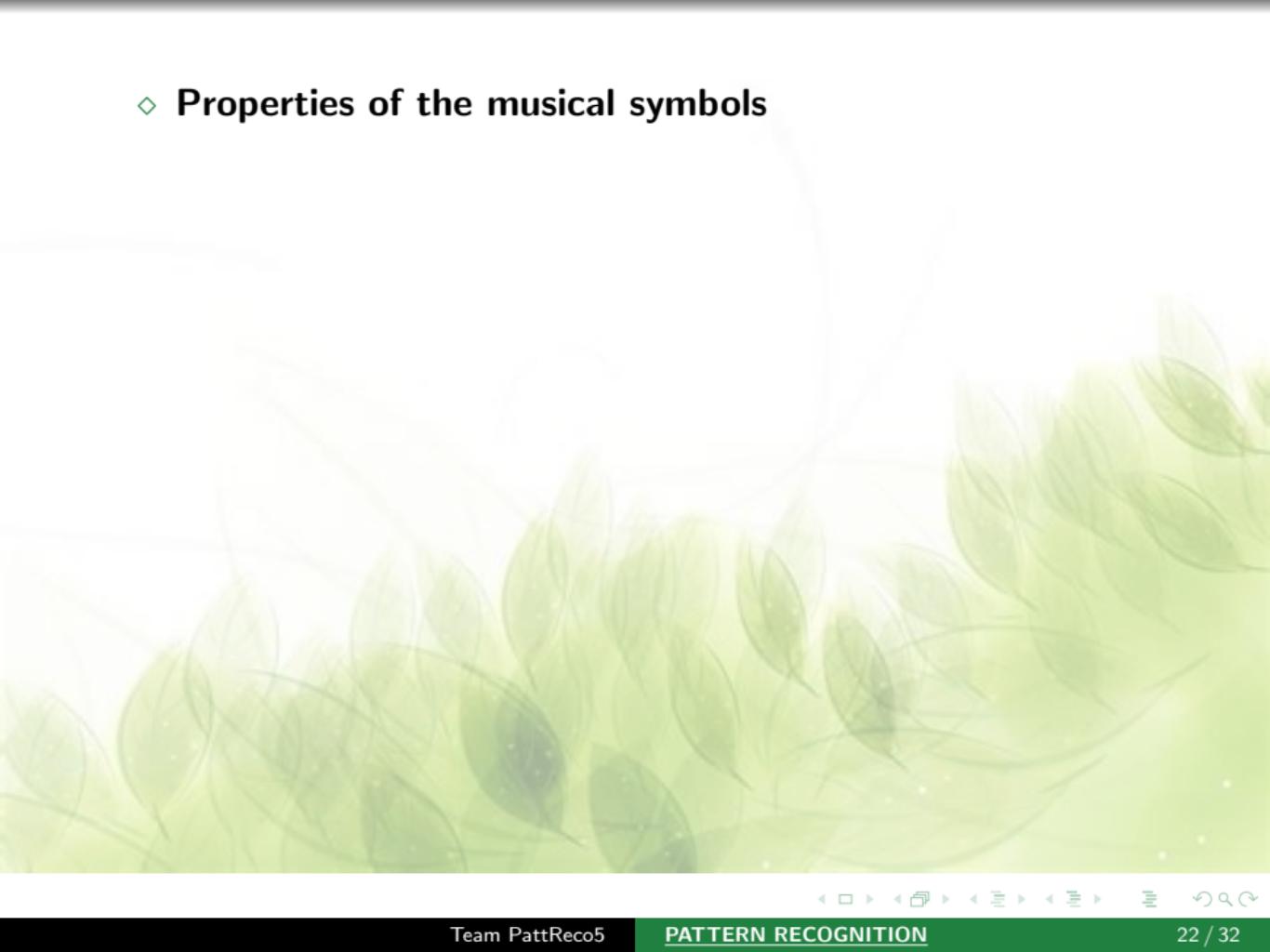


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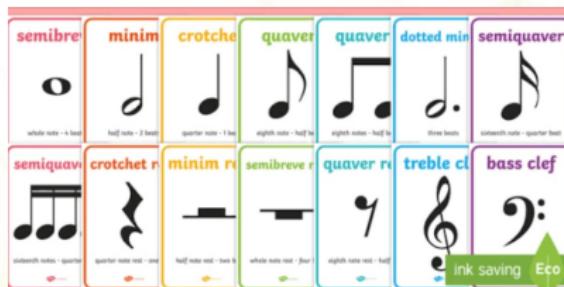


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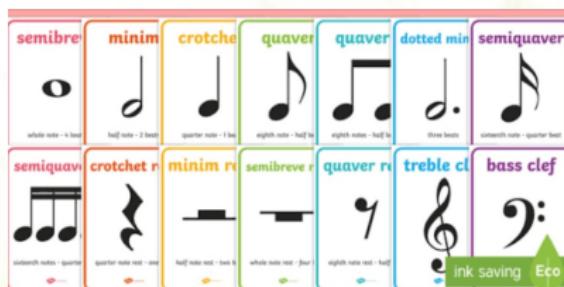


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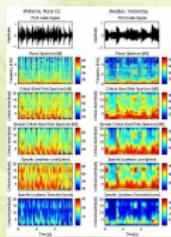


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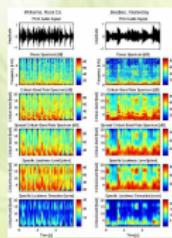


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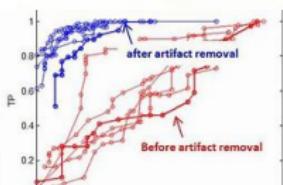


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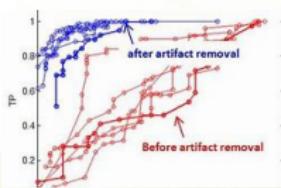


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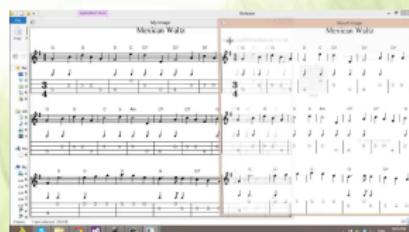


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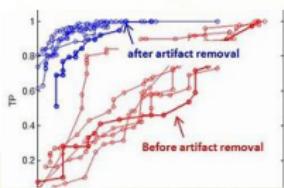


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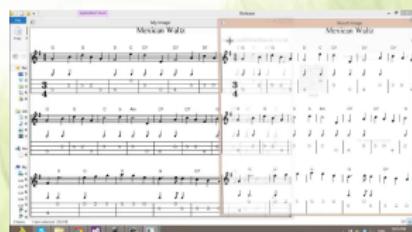


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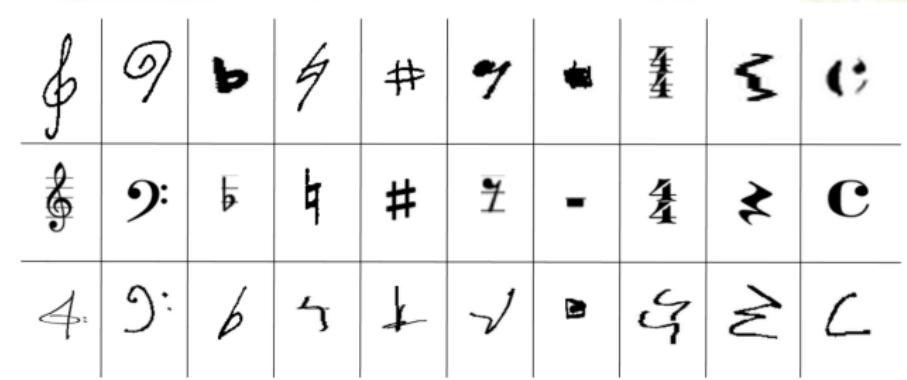


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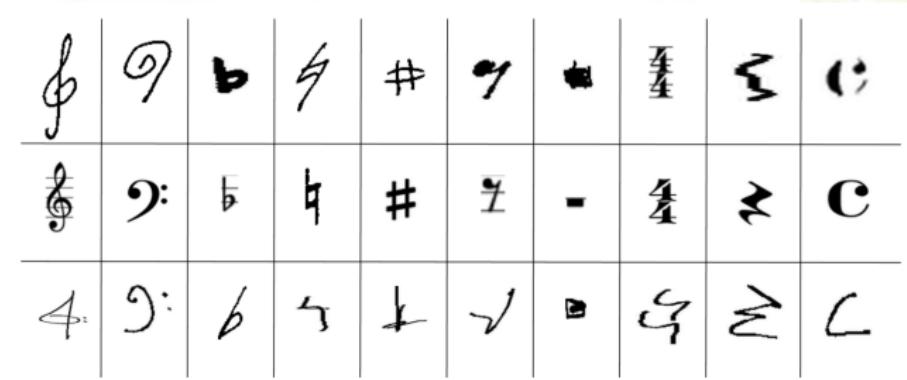


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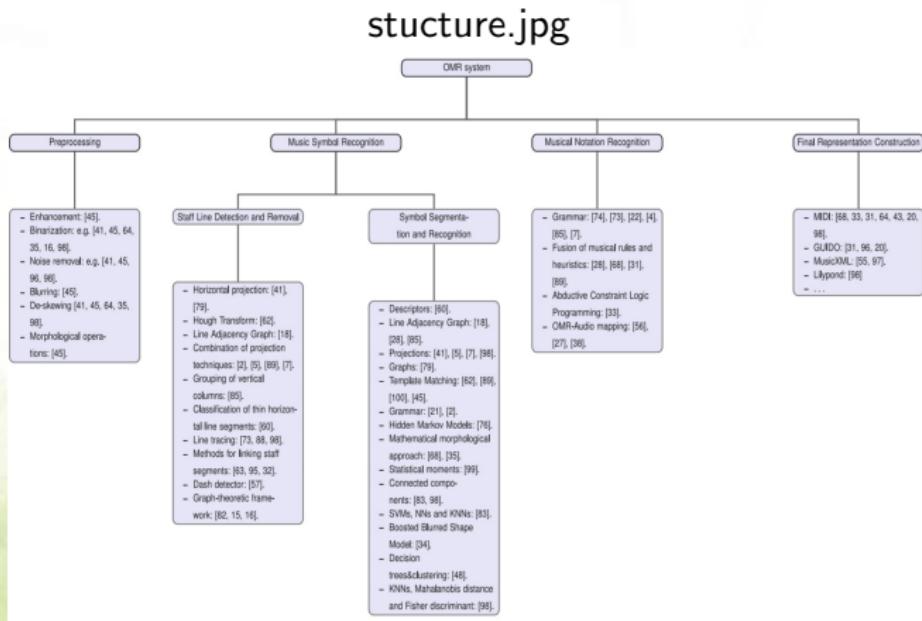
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**Figure: Summary Of Optical Music Recognition**

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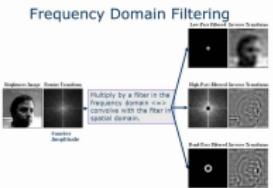
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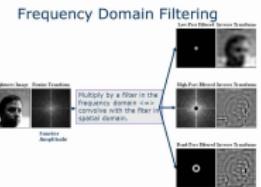
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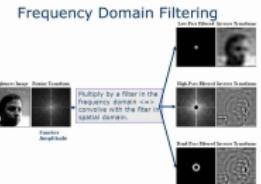
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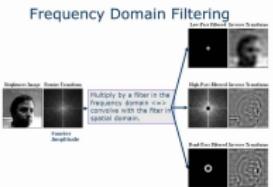
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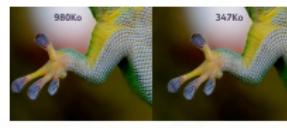
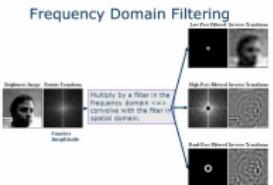
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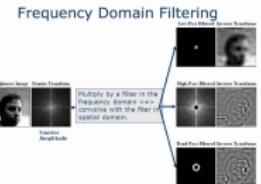
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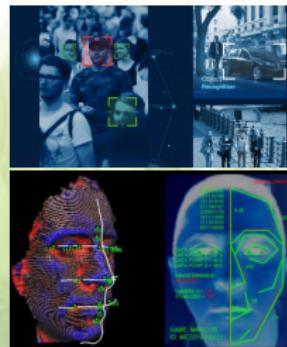
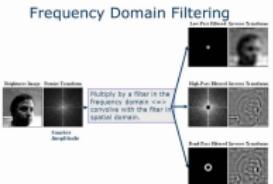
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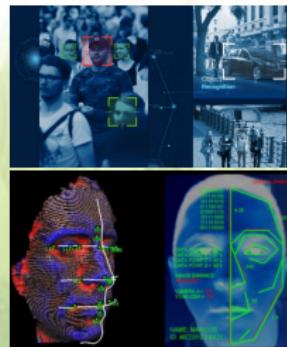
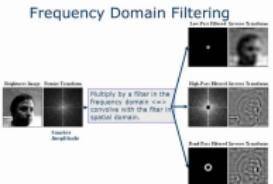
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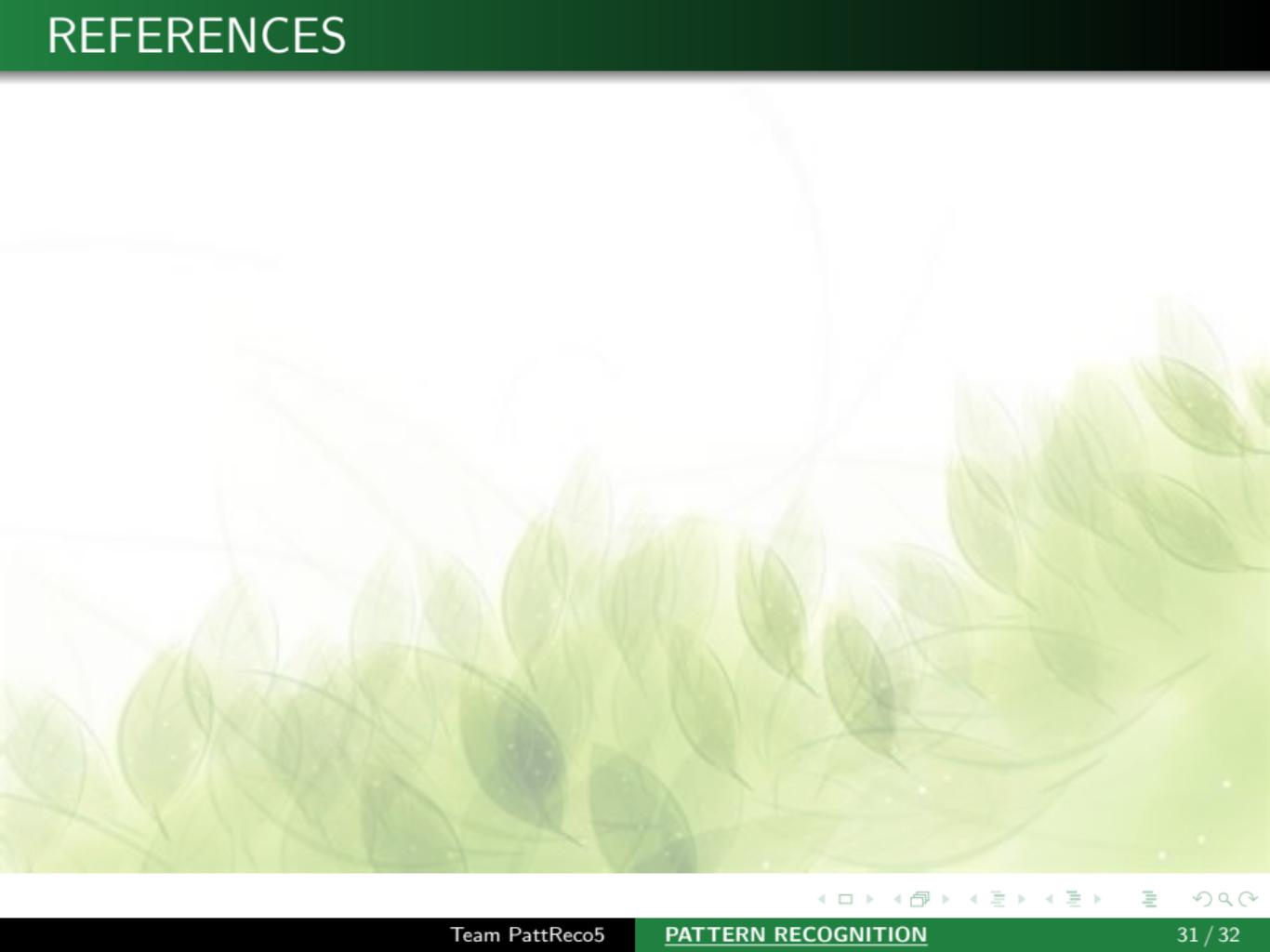


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-  Azriel Rosenfeld<sup>1</sup>, Harry Wechsler<sup>2</sup>, Received 19 December 1999, revised 30 March 2000, Center for Automation Research, University of Maryland, College Park, MD 20742-3275, Email: ar@cfar.umd.edu Department of Computer Science, George Mason University, Fairfax, VA 22030-4444, Email: wechsler@cs.gmu.edu

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