

ICMC 2005  
free sound



**KTH Computer Science  
and Communication**

# Software Tools for Expressive Music Performance

Organisation/Moderator: Roberto Bresin  
KTH School of Computer Science and Communication  
Dept. of Speech Music and Hearing



Copyright (c) 2005 Roberto Bresin

This work is licenced under the Creative Commons Attribution-NonCommercial-ShareAlike License. To view a copy of this licence, visit <http://creativecommons.org/licenses/by-nc-sa/2.5/> or send a letter to Creative Commons, 559 Nathan Abbott Way, Stanford, California 94305, USA.



# Programme

## **RENCON competition, a brief history and implications**

Rumi Hiraga, Bunkyo University

Duration: 10 min



## **Research trends in automatic music performance**

Giovanni De Poli, Università di Padova

Duration: 10 min

## **Recent advances in the KTH performance rule system**

Anders Friberg, KTH Stockholm

Duration: 10 min

## **Expressive performance modeling in the ProMusic project.**

Rafael Ramirez and Emilia Gómez, UPF MTG Barcelona

Duration: 10 min

# Programme



## **RENCON 2005 competition**

Informal listening test, results and discussion

Duration: 15 min

## **Open discussion**

"The future of research in automatic and interactive music performance."

Duration: *ad libitum*

# RENCON 2005

## Informal listening test



# RENCON 2005

## Results compulsory session

### Score

Minuette KV 1(1e) by W.A. Mozart



### Entries

1. **PopE** (applied performance template): Mitsuyo Hashida (Wakayama Univ.), Haruhiro Katayose (Kwansei Gakuin Univ.)
2. **Director Musices** (default rule palette), Anders Friberg and Roberto Bresin (KTH)
3. **pDM (fixed position happy-tender)**, Anders Friberg (KTH)
4. **pDM ("musical mapping")**, Anders Friberg (KTH)
5. **COPER**: Kenzi Noike (no affiliation), Ken'ichi Toyoda (Kwansei Gakuin Univ.) and Haruhiro Katayose (Kwansei Gakuin Univ.)

# RENCON 2005

## Results compulsory session



### Listening test

10 subjects (2F)

Age: 30 (min 22, max 40)

Played an instrument: 16 years (min 4, max 30)

Performances rated with 6 adjectives  
on a "low-high" scale:

**Level of technical security**

**Rhythmic accuracy**

**Human**

**Musical**

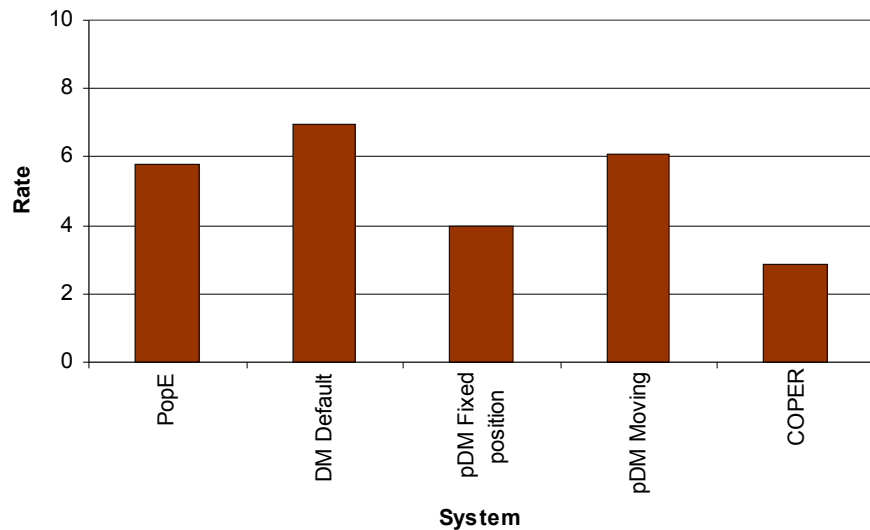
**Expressive**

**Overall quality**

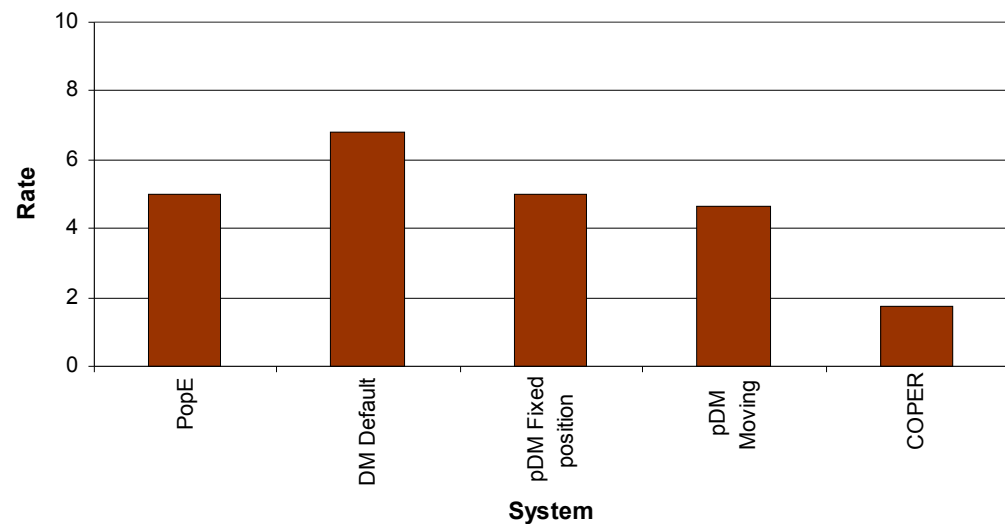
# RENCON 2005

## Results compulsory session

Level of technical security

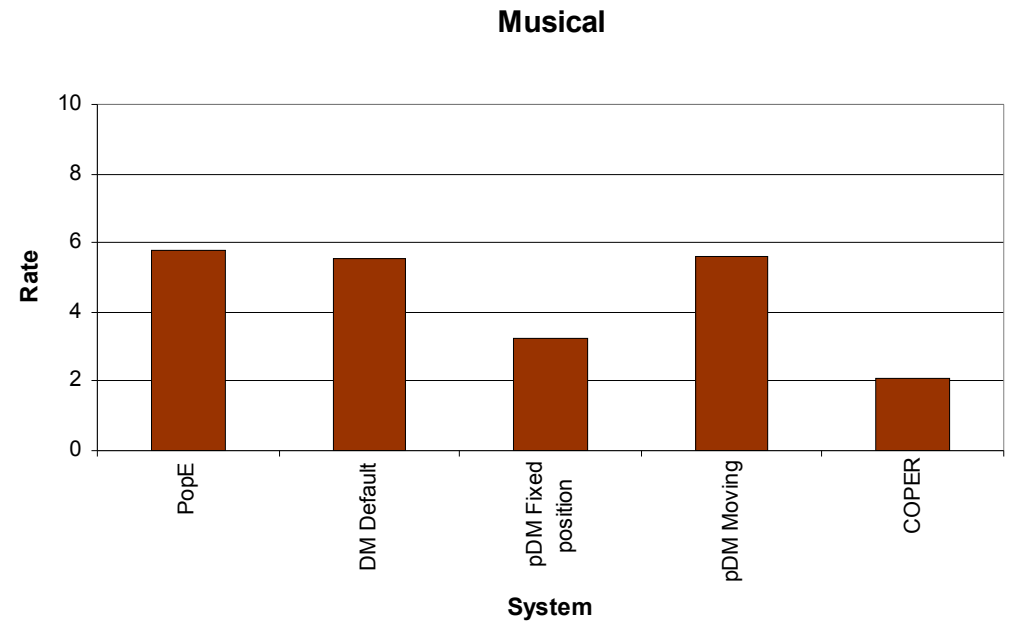
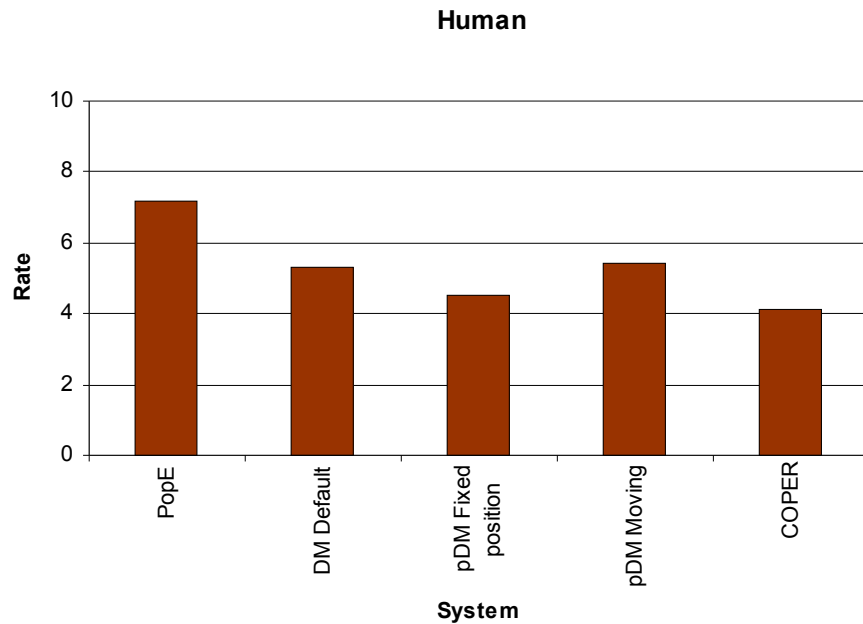


Rhythmic accuracy



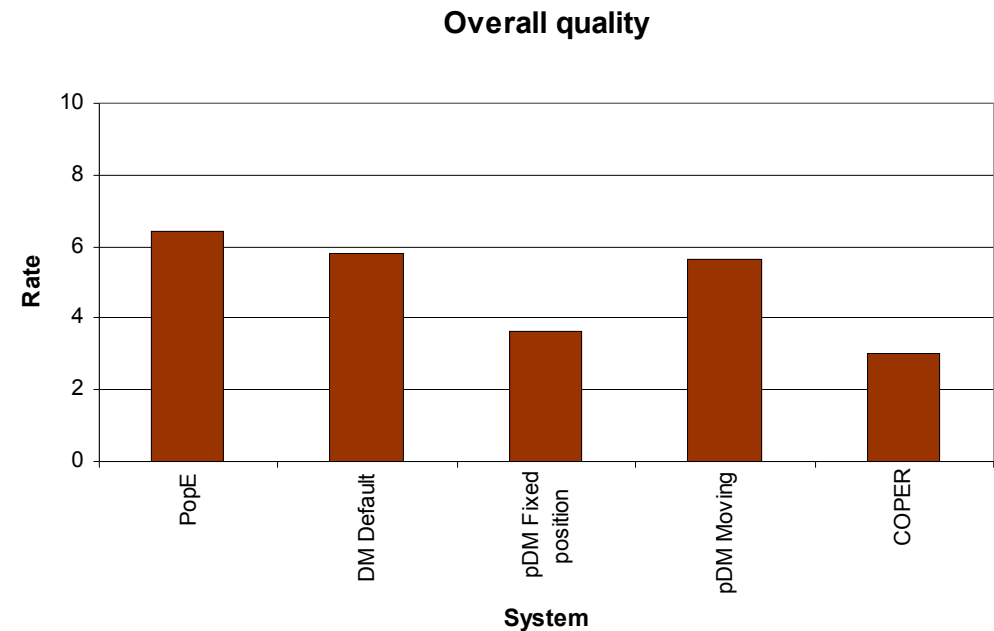
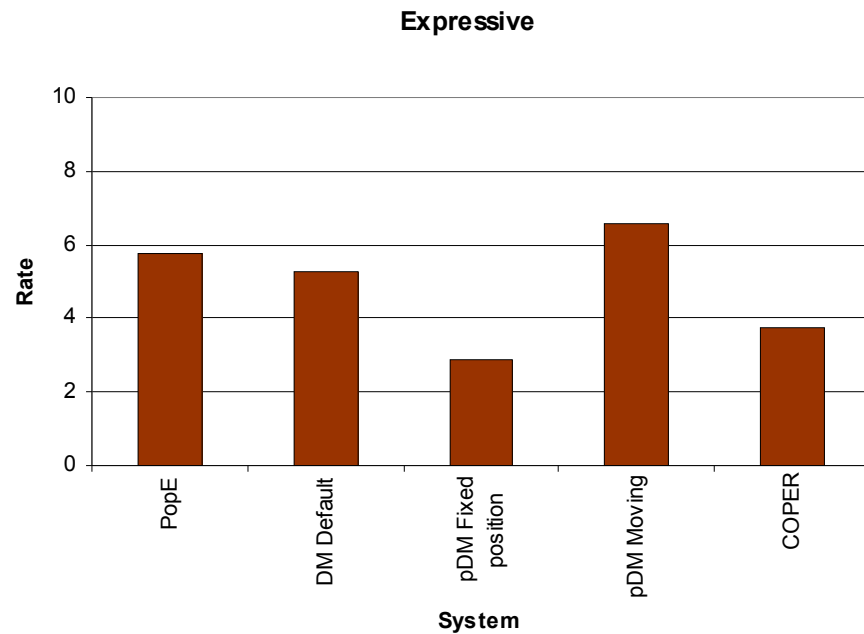
# RENCON 2005

## Results compulsory session



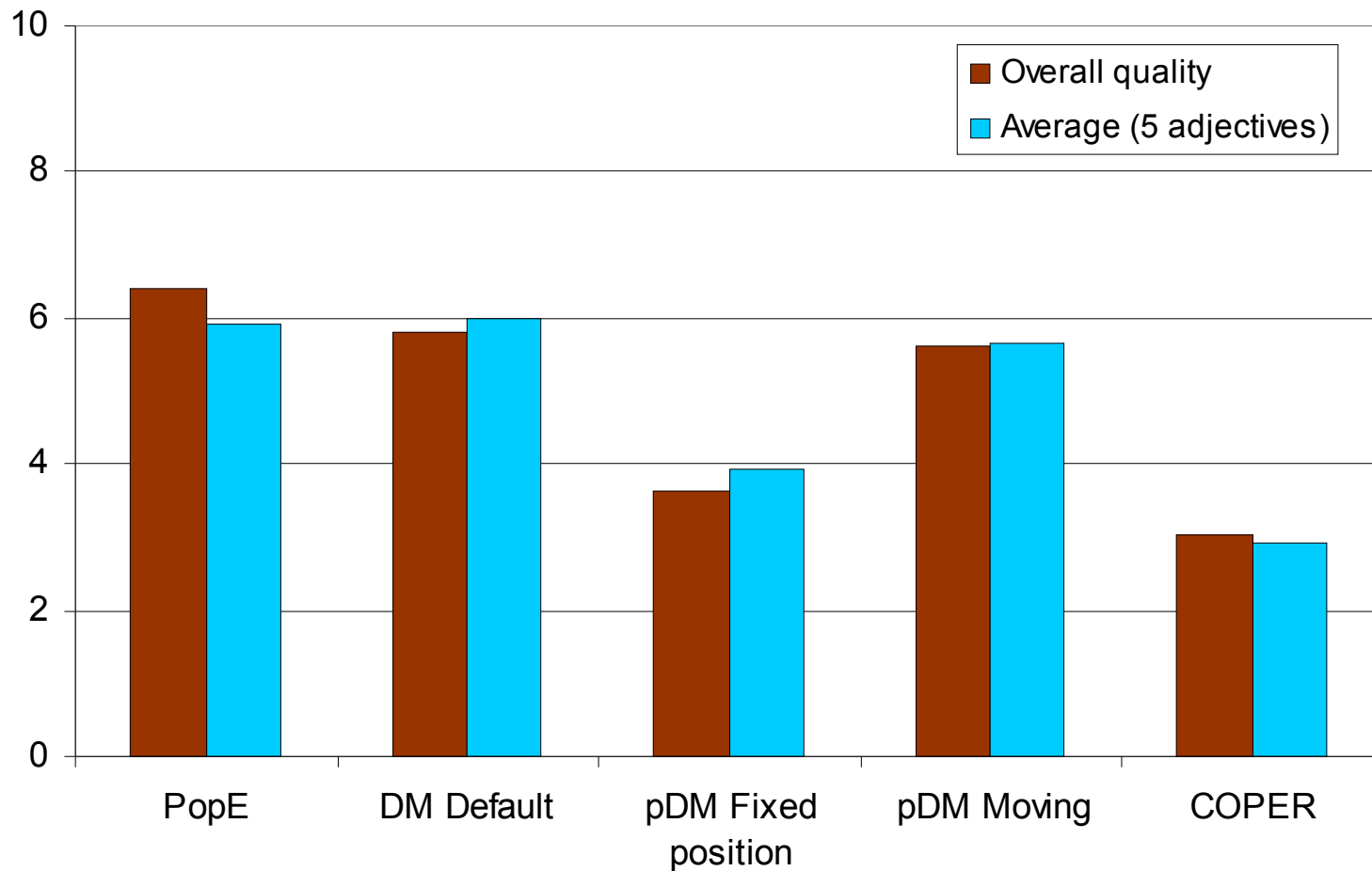
# RENCON 2005

## Results compulsory session



# RENCON 2005

## Results compulsory session



ICMC 2005  
free sound

Renc  n  
Performance Rendering Contest



**KTH Computer Science  
and Communication**

# Open discussion

## The future of research in automatic and interactive music performance



