

# Man, Machine and Music

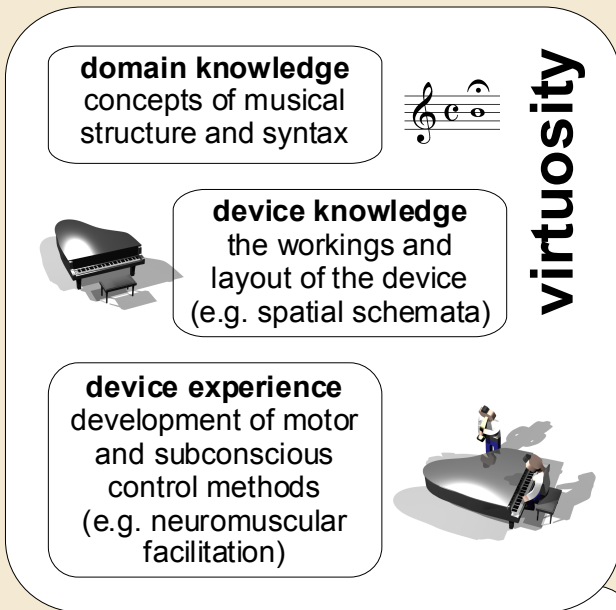
## Optimising Creativity in Computer Music



UNIVERSITY OF  
CAMBRIDGE

Computer Laboratory  
& Faculty of Music

Chris Nash



### Virtuosity in Computer Music

The goal of this research is to study human computer interaction (HCI) in music with a mind to increasing the efficiency of computer music interfaces so that *computer-aided composition* is more spontaneous and better facilitates creativity and originality.

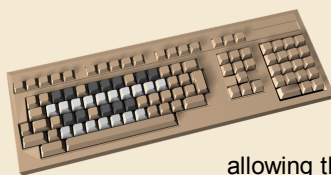
### reViSiT

a tool that displays music  
as text so that it can be  
quickly edited with the  
QWERTY keyboard.



Our work endeavours to evaluate, adapt and extend existing perspectives in HCI (such as direct manipulation, ubiquitous computing, transparency) with specific provisions for creative and expert use.

To this end, we introduce the notion of **virtuosity**, the ability to master an instrument or interface to interact 'directly' with the music.



### keyboard

the reViSiT focuses  
all program operations  
on the computer keyboard,  
allowing the user to work quickly and  
develop expert skill to get closer to the music.

### iMPULS

**Internet Music Program User Logging System**  
the program logs user input and program  
use, sending the data over the Internet to  
be studied, so that we can observe learning  
curves and the development of skill.



For more information:  
<http://revisit.nashnet.co.uk>

William Gates Building  
15 JJ Thomson Avenue  
Cambridge CB3 0FD  
<http://www.cl.cam.ac.uk/>