

# JOURNAL OF NEW MUSIC RESEARCH

**Special Issue**

## The Future of Sound and Music Computing

**Guest Editors: Nicola Bernardini and Giovanni De Poli**  
**Volume 36 Number 3 September 2007**



Over the past 50 years, music and technology have forged such a strong connection that all aspects of the economic chain, from production to distribution and consumption, have become digital. Music has become a major e-commerce commodity, paving the way for new business models and innovative applications in mobile technology and many other fields. In this context, what was once known as "computer music" has now become the Sound and Music Computing field.

So far, a number of fast-moving sciences ranging from signal processing to experimental psychology, from acoustics to cognitive musicology, have tapped the music arena here or there. What was missing in the research literature to date was a reflection over the future of the discipline. In science, the appropriate tool for such a reflection often translates directly into a scientific roadmapping effort: an assessment of where science is going, what the active scientific research community thinks will be feasible, and what is beyond our reach. The emerging research topics have led to several more-or-less encompassing roadmapping projects, some of which we attempt to account for in this special issue.

### Content of the Special Issue

Preface: Special Issue on Sound and Music Computing  
*Nicola Bernardini and Giovanni De Poli*

The Sound and Music Computing Field: Present and Future  
*Nicola Bernardini and Giovanni De Poli*

The Societal Contexts for Sound and Music Computing:  
Research, Education, Industry, and Socio-Culture  
*Marc Leman, Federico Avanzini, Alain de Cheveigne ´ and  
Emmanuel Bigand*

Sound and Music Computing: Research Trends and Some  
Key Issues  
*Gerhard Widmer, Davide Rocchesso, Vesa Va ´lima ´ki,  
Cumhur Erku ´t, Fabien Gouyon, Daniel Pressnitzer, Henri  
Penttinen, Pietro Polotti and Gualtiero Volpe*

Sound and Music Computing: Challenges and Strategies  
*Xavier Serra, Roberto Bresin and Antonio Camurri*

Impressions from the SMC Roadmap  
*Roger B. Dannenberg*

Evaluation Issue of KANSEI Technology and Sound and  
Music Computing Projects at Waseda University  
*Shuji Hashimoto*

Science and Technology of Music and Sound: The IRCAM  
Roadmap  
*Hugues Vinet*

Interacting with Digital Music  
*Mark Sandler*

# Order Form

Please enter my subscription to: **Journal of New Music Research**  
Volume 36, 2008, 4 issues per year, Print ISSN: 0929-8215, Online ISSN: 1744-5027

Personal subscriptions are welcomed if prepaid by credit card or personal cheque, and delivered to a private address. Subscription rates include postage/air speeded delivery. Sterling prices quoted apply to orders from the UK and Republic of Ireland.

- Personal Rate (print only)  £92  US\$151  €121  
Institutional Rate (print and online access)  £426  US\$727  €582  
Institutional Rate (online only)\*  £404  US\$690  €552  
**Special Issue Rate (single print only)  £15  US\$30  €24**

To view a free online sample copy of **Journal of New Music Research**, please visit:  
[www.informaworld.com/nnmr](http://www.informaworld.com/nnmr)

## PLEASE SEND MY JOURNALS TO (BLOCK CAPITALS):

NAME	
DEPARTMENT**	
INSTITUTION/COMPANY**	
STREET	
TOWN	
STATE/COUNTY	
COUNTRY	
POST/ZIP CODE	TELEPHONE
EMAIL	

\*\*Please complete this information only if you are taking out an institutional subscription.  
Please note: personal rate subscribers must give a personal address.

Register your email address at [www.informaworld.com/eupdates](http://www.informaworld.com/eupdates) to receive information on books, journals and other news within your areas of interest.

## Methods of Payment

**Payment enclosed.** Cheques or bank drafts should be made payable to T&F Informa UK Limited and be drawn on a UK or US bank.

Please charge:  Visa  Mastercard  Eurocard  American Express

Card Number \_\_\_\_\_ Expiry Date \_\_\_\_/\_\_\_\_/\_\_\_\_

CVV (3 digit security code on reverse of card) \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Payment has been made by bank transfer to one of the following accounts (please indicate):

UK - National Westminster Bank Plc, 3 London St, Basingstoke, Hants RG21 7NS, UK  
Account Name: T&F Informa UK Limited £ Account No.: 01 484400 US\$ Account No.: 01 328735  
Sort Code: 60-02-49 Swift Code: NWBKGB2L

USA - Fleet National Bank, 3<sup>rd</sup> Floor, 1185 Avenue of the Americas, New York NY 10036, USA  
Account Name: Taylor & Francis Account No.: 9417201589 ABA No.: 021200339 Swift Code: FNBBUS33

### \*ONLINE ONLY SUBSCRIBERS

Value Added Tax (VAT) is payable on the institutional rate (online only) in EU countries, therefore organisations resident in EU countries outside the UK must provide their VAT number otherwise they will be charged VAT at 17.5%.

VAT Registration Number

Country

- My organisation is not registered for VAT  
 My organisation is not within the European Union

Customer Number

Brochure Number  
XD 813 01 S

Journal Code  
NNMR

 **Routledge**  
Taylor & Francis Group

Please complete in full the details on the attached order form and return to:

**Routledge Journals, T&F Informa UK Ltd, Customer Services**, Sheepen Place, Colchester, Essex, CO3 3LP, UK.  
Tel: +44 (0)20 7017 5544 Fax: +44 (0)20 7017 5198  
Email: [tf.enquiries@tfinforma.com](mailto:tf.enquiries@tfinforma.com)

OR TO

**Routledge Journals, Taylor & Francis Inc, Customer Services**, 325 Chestnut Street, 8th Floor, Philadelphia, PA 19106, USA.  
Tel: +1 800 354 1420 (toll-free calls from within the US) or +1 215 625 8900 (calls from overseas) Fax: +1 215 625 2940  
Email: [customerservice@taylorandfrancis.com](mailto:customerservice@taylorandfrancis.com)

OR TO

**Routledge Journals, Taylor & Francis Asia Pacific**, 240 MacPherson Road, #08-01 Pines Industrial Building, Singapore 348574.  
Tel: + (65) 6741 5166 Fax + (65) 6742 9356  
Email: [info@tandf.com.sg](mailto:info@tandf.com.sg)

**ONLINE:** [www.informaworld.com/journals](http://www.informaworld.com/journals)

**OR HAND THE ORDER FORM TO YOUR LIBRARIAN WITH A RECOMMENDATION TO SUBSCRIBE**