

13th Sound & Music Computing Conference

SMC

2016

SUMMER SCHOOL

(AUGUST 26–30, 2016)

HAMBURG/GERMANY

DEADLINE REGISTRATION  
AUGUST 15, 2016

SMC2016.net



SMC  
Sound & Music Computing  
NETWORK



Sound and Music  
Computing Conference  
and Summer School

Supported by



Hamburg | Behörde für Wissenschaft, Forschung und Gleichstellung



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FRIDAY – 26.8.

SATURDAY – 27.8.

SUNDAY – 28.8.

MONDAY – 29.8.

TUESDAY – 30.8.

|             |  |  |   |  |   |
|-------------|--|--|---|--|---|
| 10:00–11:30 | <b>Registration</b>  | LECTURE:<br><b>Notating electronic music for ensemble performance</b> (Cat Hope) | LECTURE:<br><b>Ambisonics and SPATDif</b> (Troid Lossius) | LECTURE:<br><b>EEG in musical research</b> (Christiane Neuhaus)      | LECTURE:<br><b>(Mutant) - Antescofo</b> (IRCAM/ Jean-Louis Gavitto) |
| 11:30–12:00 | <i>Coffee break</i>  | <i>Coffee break</i>  | <i>Coffee break</i>                                       | <i>Coffee break</i>  | <i>Coffee break</i>   |
| 12:00–13:30 | LECTURE:<br><b>Current issues in multi-media performance</b> (Johannes Kretz/ Troid Lossius) | <b>Notating electronic music for ensemble performance</b>                        | <b>Ambisonics and SPATDif</b>                             | LECTURE:<br><b>Practical application of EEG</b> (Christiane Neuhaus) | LECTURE:<br><b>Neural networks</b> (IRCAM/ Geoffroy Peeters)        |
| 13:30–15:00 | Lunch  | Lunch  | Lunch   | Lunch  | Lunch   |
| 15:00–16:30 | SEMINAR:<br><b>Real-time composition/ notation</b> (Georg Hajdu)                             | SEMINAR:<br><b>Jack Trip</b> (Constantin Basica)                                 | SEMINAR:<br><b>VBAP &amp; WFS</b> (Tim Ziemer)            | SEMINAR:<br><b>BCMI</b> (Johannes Kretz)                             | LECTURE:<br><b>Neural networks</b> (IRCAM/ Léopold Crestel)         |
| 16:30–17:00 | <i>Coffee break/Posters</i>  | <i>Coffee break/Posters</i>  | <i>Coffee break/Posters</i>                               | <i>Coffee break</i>  | <i>Coffee break</i>   |
| 17:00–18:30 | <b>Real-time composition/ notation</b>   | <b>Jack Trip</b>   | <b>VBAP &amp; WFS</b>                                     | <b>BCMI</b>  | <b>Neural networks</b>  |
| 21:00       |  | <b>Concert night</b>   | <b>Club night</b>   |  |   |

# SMC 2016

## SUMMER SCHOOL

HAMBURG / GERMANY  
26.–30.8.2016

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The Hamburg University of Music and Theatre in association with the Hamburg University of Applied Sciences, the University of Hamburg and the Leuphana University Lüneburg will host the 13th Sound and Music Computing Conference (SMC) in Hamburg (Germany) from Wednesday, August 31 to Saturday, September 3, 2016. The SMC 2016 Summer School will take place over five days from August 26 to 30, 2016.

The Summer School will give young researchers the opportunity to learn about some of the core interdisciplinary topics and to share their own experiences with other young researchers.

This year's motto is Neurons and Networks, referring to:

- **Brain-computer music interfaces**
- **Artificial neural networks for gesture recognition and complex mapping**
- **Networked music performance and real-time music notation**
- **Elaborate loudspeaker networks for wave-field synthesis and 3D spatialization techniques**
- **IRCAM technology**

The students will be given the opportunity to present their works during coffee break/poster sessions on the first three afternoons.

There will also be a network concert with student participation on the second day.

For the third evening, we are planning an excursion to one of St. Pauli's nightclubs.

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## LOCATION

**HfMT Campus Nord**  
Hebebrandstraße 1, 22297 Hamburg

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FURTHER INFORMATION:  
**SMC2016.net**

## ENROLLMENT

All participants should be currently enrolled in a music-related academic program on the master or doctoral level, exceptions may be made for bachelor students with an interesting portfolio.

The enrollment has to be made through the SMC 2016 conference system at <https://easychair.org/conferences/?conf=smc2016>.

Applications must include the following documents in pdf format:

- **Curriculum vitae** (max. 1 page)
- **Proof of university enrollment**
- **Short description of the student research interest and motivation to participate** (max. 2 pages)

For further information see the SMC 2016 Submission Instructions at <https://easychair.org/conferences/?conf=smc2016>.

**The deadline for registration is August 15, 2016.**

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## FEES

|   |         |
|---|---------|
| <b>SUMMER SCHOOL</b> .....                          | 200 EUR |
| <b>Discounted COMBO FEE</b> .....                   | 300 EUR |
| <i>(summer school plus conference and festival)</i> |         |

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## TEACHERS

**Constantin Basica** (composer and PhD student at Stanford University, USA)

**Léopold Crestel** (IRCAM, France)

**Jean-Louis Giavitto** (senior scientist at CNRS in computer science, working in the joint lab between IRCAM – CNRS – UPMC and INRIA, France)

**Georg Hajdu** (composer and professor at HfMT Hamburg, Germany)

**Cat Hope** (composer and professor at Edith Cowan University Perth, Australia)

**Johannes Kretz** (composer and professor at the University for music and performing arts Vienna, Austria)

**Trond Lossius** (sound artist and research and development coordinator at BEK, Bergen, Norway)

**Christiane Neuhaus** (musicologist and lecturer at the Institute for Systematic Musicology, University of Hamburg, Germany)

**Geoffroy Peeters** (senior researcher at IRCAM, France)

**Tim Ziemer** (researcher at the Institute for Systematic Musicology, University of Hamburg, Germany)