

# 第十五屆國際電腦音樂與音訊技術研討會議程

## 15th International Workshop on Computer Music and Audio Technology

**Date:** Dec 13-14, 2019    **日期:** 民國 108 年 12 月 13-14 日(五、六)

**Venue:** B1 Auditorium, Electrical Engineering and Computer Science Building

**地點:** 國立清華大學資電館(EECS B1)

主辦單位：清大電機資訊學院

共同主辦:交通大學音樂研究所、清華大學藝術學院、桃園新愛樂管絃樂團

合辦單位：清華大學資工系、台灣電腦音樂學會

協辦單位：清華大學資工系、清華大學 資訊系統與應用研究所、逢甲電聲碩士學位學程、中研院資訊科學研究所、客家委員會

贊助指導單位: 科技部、教育部、清華大學 研究發展處、清華大學 電機與資訊學院、清華大學 資訊工程學系

<b>時間</b>	<b>2019 年 12 月 13 日(五) December 13 (Friday) 地點：清大資電館 B1 演講廳</b>
08:30-9:00	報 到
09:00-9:20	Opening Ceremony and Remarks 開幕及貴賓致詞
09:30-10:30	<b>Keynote Speech 1 主題演講 1</b> <b>Speaker: Prof Elain Chew 周瑜年教授</b> Elain Chew is currently a senior researcher at the Science et Technologies de la Musique et du Son (STMS) Laboratory, a joint laboratory supported by the Centre National de la Recherche Scientifique (CNRS), the Institut de Recherche et Coordination Acoustique/Musique (IRCAM), Sorbonne University, and the French Ministry of Culture. <b>Title:</b> 講題：
10:30-10:50	<b>Tea Break and Poster Presentation 茶敘、海報論文發表</b>
10:50-11:50	<b>Paper Presentation1:</b> Paper1: Paper2: Paper3:
11:50-13:00	<b>Lunch(Provided by the conference) 午 餐</b>
13:00-13:40	<b>Invited Speech 1 邀請演講 1</b> <b>Speaker: Prof Sever Tipei</b> Sever Tipei is a composer and theorist whose main fields are computer music and music formalization. Professor Tipei manages the Computer Music Project of the University of Illinois Experimental Music Studios and, as a visiting scientist at Argonne National Laboratory (1993-2003), he pursued research in sonification of scientific data. <b>Title:</b> 講題：
<b>時間</b>	<b>2019 年 12 月 13 日(五) December 13(Friday) 地點：清大資電館 B1 演講廳</b>
13:50-14:30	<b>Invited Speech 2 邀請演講 2</b> <b>Speaker: 小坂直敏教授 (Naotoshi Osaka)</b> 所属 東京電機大学 未来科学部 情報メディア学科 東京電機大学大学院 先端科学技術研究科 情報通信メディア工学

	<p>專攻 東京電機大学大学院 未来科学研究科 情報メディア学専攻 職種 教授</p> <p>Title: Improvement of sound collage synthesis using NMF 講題：Timbre has played an important role since the early stage of computer music. In order to create a new timbre, sound effect and sound source synthesis techniques are indispensable. In this study a fairly new sound effect known as “sound collage” or “sound mosaic” is taken as a subject and technical detail is described. This effect is defined as expressing a target sound in terms of other elemental timbres. In order to fill the target sound, NMF (Nonnegative Matrix Factorization) is used. This paper describes the definition of the effect, and explains how the target sounds are expressed in terms of given instrumental sounds. We confirmed that the synthesized sound has 2.03dB of SD in comparison with the target sound.</p>
14:30-14:50	<b>Tea break</b>
14:50-15:50	<p><b>Paper presentation2:</b> Paper1: Paper2: Paper3:</p>
15:50-16:50	<p><b>Invited Speech 3 邀請演講 3</b> <b>Speaker: Prof. Ken Paoli</b> Ken Paoli is currently a professor of music at College of DuPage. A current project involves archiving the works of American composer Phil Winsor. He recently lectured on his analysis of Winsor's “Il Passaggio Spaziale.” A fan of old-time radio he always was fascinated by the otherworldly background noises a tube radio can generate. Title: 講題：</p>
17:00-18:30	<b>Dinner break (晚餐)</b>
18:30-19:30	<b>Evening Music Concert 1 晚間音樂會 1</b>
19:30-20:00	茶敘/Break 籌備處演藝廳前廳
20:00-21:00	<b>Evening Music Concert 2 晚間音樂會 2</b>
21:00	Closing 賦 歸

**第十三屆國際電腦音樂與音訊技術研討會議程(暫定)**  
**13th International Workshop on Computer Music and Audio Technology**

**Date: Dec 13-14, 2019 日期: 民國 108 年 12 月 13-14 日(五、六)**

**Venue: Electrical Engineering and Computer Science Building**

**地點: 國立清華大學資電館 Website: <https://reurl.cc/qDnV9y>**

<b>時間</b>	<b>2019 年 12 月 14 日(六) December 14(Saturday) 地點: 清大資電館電腦教室</b>
08:30-09:00	作品發表報到
09:00-10:00	<p><b>Keynote Speech 2 主題演講 2</b> <b>Speaker: Prof Marc Battier</b> Marc Battier (born 21 December 1947 in Brive, France) is a composer and musicologist. He is known as a cofounder with Leigh Landy and Daniel</p>

	<p>Teruggi of the Electroacoustic Music Studies Network, which established a new field in musicology specifically for the musicological study of electroacoustic music.</p> <p>Title: 講題：</p>
10:00-10:20	<b>Tea Break and Poster Presentation</b> 茶敘、海報論文發表
10:20-11:00	<p><b>Invited Speech 4 邀請演講 4</b></p> <p><b>Speaker: Prof. Deepti Navratna</b></p> <p>Deepti Navaratna is a Bangalore-based neuroscientist and musician. She is currently serving as the Executive Director of the Indira Gandhi National Centre for the Arts, Bengaluru. As an accomplished South Indian classical musician, Deepti has presented her work at the Symphony Space and Asia Society, New York; Museum of Fine Arts, Boston; Yale School of Music, New Haven; and Harvard Arts Museum, Cambridge among others, as well as at many spaces in India.</p> <p>Title: 講題：</p>
11:00-12:00	<p><b>Paper Presentation3</b></p> <p>Paper1: Paper2: Paper3:</p>
12:00-13:00	午 餐 Lunch
13:00-13:40	<p><b>Invited Speech 5 邀請演講 5</b></p> <p><b>Speaker: Prof. Axel Roebel</b></p> <p>Axel Röbel is research director IRCAM working on audio signal analysis, modeling, and transformation using especially frequency domain signal representations.</p> <p>Title: 講題：</p>
13:50-15:00	Panel(音樂與科技的對話)
15:00-15:10	break
15:10-17:00	Award Ceremony and Closing Concert/頒獎與閉幕音樂會