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Author	Leu, Johnson(Inakage, Masahiko) 稲蔭, 正彦
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**MAP MUSICAL: A SUPPLEMENTARY LOCATION-BASED  
AUDITORY EXPERIENCE FOR DÉRIVE CITY EXPLORATION**

**BY  
JOHNSON LEU**

**A THESIS  
SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE DEGREE OF MASTER OF MEDIA DESIGN  
IN THE GRADUATE SCHOOL OF MEDIA DESIGN  
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**YOKOHAMA, KANAGAWA, JAPAN  
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## **Abstract**

### **Map Musical: A Supplementary Location-Based Auditory Experience for Dérive City Exploration**

Johnson Leu

This thesis proposes Map Musical, a location-dependent mobile music generator that is designed to enrich the experience of city exploration with interactive musical performances. Inspired by psychogeography and the theory of the *dérive*, the works presented here aim to help city residents regaining awareness of the surrounding urban environment. The thesis introduces the concept of ‘modular rhythmic beacon’ and its use in combination with GPS-enabled mobile navigation device for the creation of auditory city map. By creating and associating musical ambient sound components to various points of interests on the map, the user hears a geography-influenced performance by moving through the streets.

#### **Keywords:**

Mobile music, acoustic beacon, psychogeography, psychoacoustics, auditory navigation

#### **Thesis Committee:**

Professor Masahiko Inakage	(Supervisor)
Professor Hideki Sunahara	(Co-supervisor)
Professor Naohisa Ohta	(Co-supervisor)