

COST Cooperation



SHORT-TERM SCIENTIFIC MISSIONS

COST Action : Cost287-ConGAS

APPLICATION DETAILS

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STSM Topic : Development of the Gesture Description Interchange Format (GDIF)
STSM Host : Input Devices and Music Interaction Laboratory (IDMIL)¹, McGill University

Introduction

We have started development of the Gesture Description Interchange Format (GDIF)² [1, 2] as an accompaniment to the Sound Description Interchange Format (SDIF) [3]. GDIF is intended to solve our current problems with describing, storing, retrieving and sharing information about music-related gestures. We need an open and flexible format that works well in both realtime and non-realtime, and that is not only bound to describing low-level features, but also movement *qualities*, performer-instrument relationships, and gesture-sound couplings in a coherent and consistent way. A common musical gesture format will simplify working with different software, platforms and devices, and allow for sharing data between institutions.

Aims and Objectives

During the STSM, we plan to develop a working GDIF namespace for various controllers available in the IDMIL:

- Evaluate the features and create a set of technical and semantic descriptors for the controllers
- Create a GDIF namespace for each of the controllers

²<http://www.hf.uio.no/imv/forskning/forskningsprosjekter/musicalgestures/gdif/>

- Test the namespaces in action in a multi-computer setup
- Optimize the namespaces for both realtime and non-realtime use

The outcome of the STSM will be summarized in a conference or journal publication, as well as documentation on our web pages.

Budget

I apply for travel (Oslo-Montreal-Oslo), accomodation and subsistence costs for a 14 day STSM at McGill:

Travel	:	€700
Subsistence	:	€840 (14 days * €60)
Total	:	€1540

Contribution from other sources: none

Previous CEC financial support or current requests to the CEC: none

References

- [1] Alexander Refsum Jensenius, Tellef Kvifte, and Rolf Inge Godøy. Towards a gesture description interchange format. In Norbert Schnell, Frédéric Bevilacqua, Michael Lyons, and Atau Tanaka, editors, *Proceedings of New Interfaces for Musical Expression, NIME 06, IRCAM - Centre Pompidou, Paris, France, June 4-8*, pages 176–179. Paris: IRCAM - Centre Pompidou, 2006.
- [2] Mark T. Marshall, Nils Peters, Alexander Refsum Jensenius, Julien Boissinot, Marcelo M. Wanderley, and Jonas Braasch. On the development of a system for gesture control of spatialization. In *Proceedings of the 2006 International Computer Music Conference, 6-11 November, New Orleans*, 2006.
- [3] Matt Wright, Amar Chaudhary, Adrian Freed, David Wessel, Xavier Rodet, D. Virolle, R. Woehrmann, and Xavier Serra. New applications of the sound description interchange format. In *Proceedings of the International Computer Music Conference, Ann Arbor, Michigan*, pages 276–279, 1998.