Developing a Structured OSC Namespace for Jamoma

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ABSTRACT

The paper suggests an approach to create structured OSC messages, separating the addressing of computers and modules, from the parameters and attributes of the modules. This includes a system for querying values and parameters for creating flexible communication in modular systems. A prototype implementation is presented and discussed.

Keywords

Jamoma, OSC, standardization

1. INTRODUCTION

Jamoma[1] is a system for developing high-level modules in the Max/MSP/Jitter environment, consisting of a recommendation and an implementation of that recommendation [4]. Most of the recent development of Jamoma has focused on improving core functionality, including flexible mapping between modules and adding ramping, function and unit conversion possibilities.

Communication in and between Jamoma modules is being handled through the Open Sound Control (OSC)[2] protocol. As the messaging between has grown more complex we have found that the current messaging structure of OSC is not ideal for our usage. The paper will start with an overview of some related research into development of the OSC protocol. This is followed by a suggestion for a structured approach to extending the current suggestions for OSC namespace creation. Finally, a prototype implementation in Jamoma is presented and discussed.

2. RELATED WORK

2.1 Open Sound Control

[1]http://www.jamoma.org
[2]http://www.opensoundcontrol.org

NIME08, Genova, Italy

2.2 Integra

Integra [1]

2.3 Open Sound Control 2.0 suggestion

Developers of the Lemur multitouch interface presented a draft for a 2.0 version of Open Sound Control during an OSC developer meeting at NIME 2006 [2], and has later changed the suggestion slightly [3].

2.4 UPF

3. A STRUCTURED APPROACH

4. PROTOTYPE IMPLEMENTATION

5. DISCUSSION

5.1 Future Work

6. ACKNOWLEDGMENTS

All Jamoma developers and users for valuable contributions.

7. REFERENCES

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[3] Jazzmutant. Extension and enchancement of the OSC protocol. Draft 25 July 2007, 2007.

[4] T. Place and T. Lossius. Jamoma: A modular standard for structuring patches in max. In *Proceedings of the 2006 International Computer Music Conference*, pages 143–146, New Orleans, LA, 2006. San Francisco: ICMA.