MUSIC PROCESSING: Palestrina Pal
A Grammar Checker for Music Compositions in the style of Palestrina

Modified Palestrina’s Sicut Cervus Measure 47

BRIEF DESCRIPTION OF TECHNOLOGY DEMONSTRATION

Palestrina Pal is a JAVA-based composition tool that automatically checks for Palestrina style rules. By automating the rule-checking process, the application allows composers to focus on higher-level aesthetic issues. The application interface contains various panels for data input and error visualization. The software uses the GUIDO music notation format and an object-oriented design that mimics the human evaluation process.
**UNIQUE OR DISTINGUISHING CHARACTERISTICS RELATIVE TO STATE-OF-THE-ART**

Our goal is to create a composition tool that can assist composers in the creation of better Palestrina style compositions, and that can be put to practical use in current music education systems.

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<tr>
<th>APPLICATIONS</th>
<th>RECENT HIGHLIGHTS, LEVEL OF DEVELOPMENT, UPCOMING MILESTONES</th>
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| • Computer-Aided Composition (CAC)  
• Computer analysis of music  
• Music Education | • Highlights: *First prize winner* of the 2004 USC Undergraduate Research Symposium (Interdisciplinary Award), software demonstration at the Annenberg Communications Critical Pathway Symposium  
• Future work: Display statistics in analysis of errors and idioms, improve user interface by adding piano roll visualizations that show imitations at different time and pitch intervals, enable playback of any voice combinations, incorporating secondary level rules, and generate recommendations for corrections |

**UNDERLYING TECHNOLOGIES**

• The software was implemented using Java2 SDK, Standard Edition.

**LIST OF PUBLICATIONS, REFERENCES, URLs**

• The GUIDO Music Notation Format Page: www.informatik.tu-darmstadt.de/AFS/GUIDO

For additional information, please contact the Principal Investigator listed above via email, or contact

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Palestrina Pal
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