

Adaptive lookahead planning for performing music composition

Dimitri Bouche, Jean Bresson

▶ To cite this version:

Dimitri Bouche, Jean Bresson. Adaptive lookahead planning for performing music composition. The 25th International Conference on Automated Planning and Scheduling (ICAPS), Jun 2015, Jerusalem, Israel. 2015. hal-01163294

HAL Id: hal-01163294 https://hal.science/hal-01163294

Submitted on 12 Jun 2015

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

Adaptive lookahead planning for performing music composition

Dimitri Bouche – Jean Bresson UMR 9912 STMS IRCAM-CNRS-UPMC / Paris, France {bouche,bresson}@ircam.fr

Context	Adaptive lookahead (dynamic vs. static)	
 Creating music amounts to write (compose) and perform (live) Composition can last an indefinite time 	Dynamic object	Static object
 Performance has a timeline defined during composition 		
Compositional processes that generate or modify musical structures can be integrated in musical objects, and occur during the performance	►t ○○○○ likely to be modified while being rendered	oooooooooooooooooooooooooooooooooooooo

Planning of a musical object

Dynamic lookahead extension



Planning and scheduling operation scheme











EFFICAC(e) ANR-13-JS02-0004-01 : http://repmus.ircam.fr/efficace/ **Download OpenMusic :** http://repmus.ircam.fr/openmusic/





