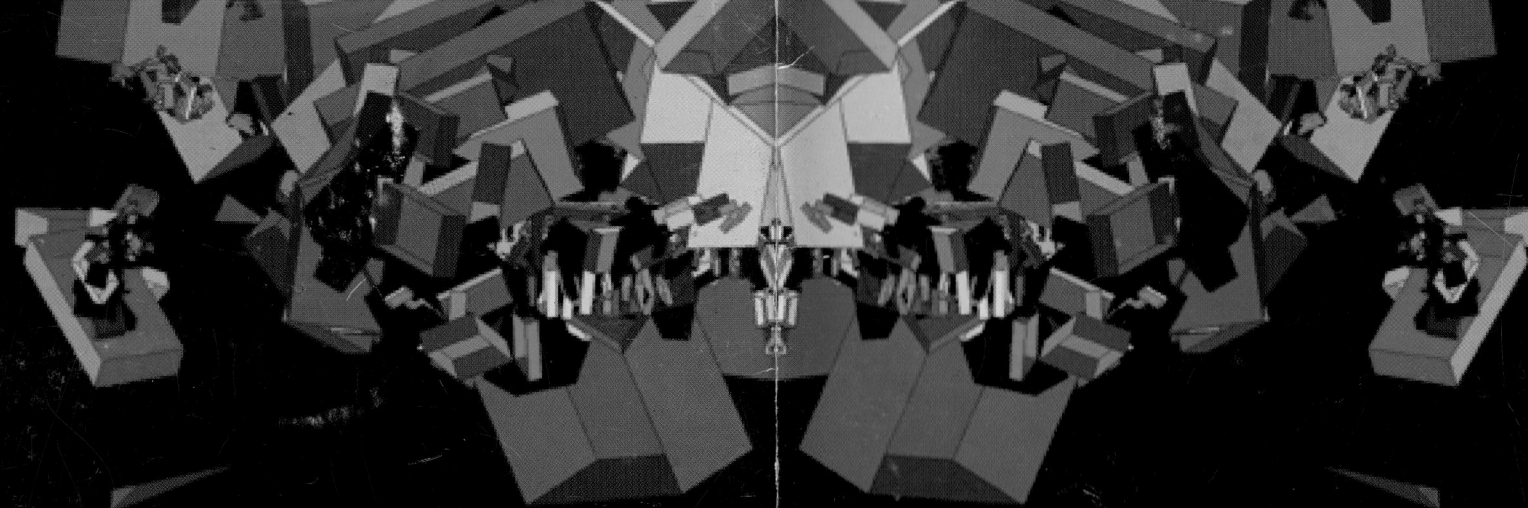


IV SBCM



PROGRAM

# IV SBCM

brazilian computer music symposium

Brasília, August 3-8, 1997

Centro de Convenções Ulisses Guimarães



## IV SBCM

### brazilian computer music symposium

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Chairman  
*Aluizio Arcela, UnB*

**Sunday, 3rd**  
*Room: Alvorada*  
18:15-19:00

#### OPENING SESSION

### INVITED TALKS

**Tuesday, 5th**  
*Room: Alvorada*  
10:20-12:00

#### INVITED TALK I

THE BEGINNINGS OF COMPUTER MUSIC: 1957 TO THE EARLY 1970'S  
*Max Mathews (CCRMA, Stanford University, USA)*

**Wednesday, 6th**  
*Room: Alvorada*  
10:20-12:00

#### INVITED TALK II

THE RADIO-BATON AND CONDUCTOR PROGRAM WITH EMPHASIS ON COMPOSITIONAL ALGORITHMS FOR LIVE PERFORMANCE  
*Max Mathews (CCRMA, Stanford University, USA)*

**Thursday, 7th**  
*Room: Alvorada*  
10:20-12:00

#### INVITED TALK III

NETSOUND, EXTENDED CSOUND, AND STRUCTURED AUDIO PROCESSING  
*Barry Vercoe (MIT Media Lab, Massachusetts Institute of Technology, USA)*

### ROUND TABLES

**Monday, 4th**  
*Room: Alvorada*  
8:00-9:40

Chairman:

**Participants:**

#### ROUND TABLE I

GRUPOS DE PESQUISA NO BRASIL  
*Geber Lisboa Ramalho*      DI-UFPE

*Didier Guigue*  
*Maurício Loureiro*  
*Jorge Antunes*  
*Jônatas Manzolli*  
*Rodolfo Caesar*  
*Raul do Valle*

DM-UFPB  
CPCM-UFMG  
MUS-UnB  
NICS-Unicamp  
Esc. de Música, UFRJ  
NICS-Unicamp

**Thursday, 7th**

Room: Alvorada  
14:00-16:30

Chairman:

**ROUND TABLE II**

MUSIC AND TECHNOLOGY WITH NETWORKS

*Aluizio Arcela* (CIC-UnB, Brazil)

**Participants:**

*Kathryn Vaughn* (Berklee-College of Music, USA)  
*Max Mathews* (CCRMA-Stanford University, USA)  
*Barry Vercoe* (MIT Media Lab, USA)  
*Conrado Silva* (MUS-UnB, Brazil)  
*Robert Willey* (CRCA-UC, San Diego, USA)

**PAPERS****Monday, 4th**

Room: 9  
14:00-16:30

Chairman:

**PAPERS I**

*Maurício Alves Loureiro* (Escola de Música, UFMG, Brazil)

A CELULAR AUTOMATA BASED MUSIC ALGORITHM

*Kenneth B. McAlpine, Eduardo R. Miranda, Stuart G. Hoggar* (Dept. of Mathematics and Dept. of Music, University of Glasgow, Scotland)

AI AND MUSIC: COMPUTER AND BRAIN

*Mladen Milicevic* (University of South Caroline, USA)

USING COMPUTER PROGRAMS AS GENERATORS OF COMPOSITIONS

*Aditya P. Mathur* (Department of Computer Science, Purdue University, USA)

USING SPECTRAL MODELING AS AN INTUITIVE APPROACH FOR COMPOSITION AMONG COLOMBIAN COMPOSERS

*Juan Reyes, Mauricio Rincón* (Universidad de Los Andes, Colombia)

PATTERN REUSE IN TONAL MUSIC IMPROVISATION AND ACCOMPANIMENT SYSTEMS

*Geber Lisboa Ramalho* (Departamento de Informática, UFPE, Brazil)

WHO COMPOSED "ENTRE L'ABSURDE ET LE MYSTÈRE"?

*Eduardo Reck Miranda* (Dept. of Music University of Glasgow, Scotland and Dept. of Music, UFSM, Brazil)

**Tuesday, 5th**

Room: 9  
14:00-16:30

Chairman:

**PAPERS II**

*Geber Lisboa Ramalho* (Dep. Informática, UFPE, Brazil)

AUDIO WORKSHOP, A PROGRAM FOR AUDIO SYNTHESIS AND PROCESSING

*Victor Lazzarini* (Depto. de Arte, Univ Estadual de Londrina, Brazil)

WAV2MID - CONVERSOR DE MELODIAS DO FORMATO WAVE PARA O FORMATO MIDI

*Márcio da Costa Pereira Brandão, Ricardo Staciarinni Puttini, Luis Antônio Brasil Kowada, Carlos Antônio Jorge Loureiro* (Depto de Ciência da Computação, Universidade de Brasília, Brazil)

RESTAURAÇÃO DE GRAVAÇÕES ANALÓGICAS VIA CONTROLE MIDI

*Marcelo Moreira* (Núcleo Interdisciplinar de Comunicação Sonora, UNICAMP, Brazil)

TIME-FREQUENCY DISTRIBUTION FOR TIMBRE MORPHING; THE WIGNER DISTRIBUTION VERSUS THE STFT  
*Ciaran Hope, D.J. Furlong* (Dept. of Electronic and Electrical Eng., Trinity College Dublin, Ireland)

SÍNTESE ADITIVA E WAVESHAPING PELO MÉTODO POLINOMIAL

*Edwin Loboschi, C.J.B. Pagan, Yaro Burian Jr., Paulo S. dos Santos* (Faculdade de Eng. Elétrica e de Computação, UNICAMP, Brazil)

**Wednesday, 6th**

Room: 9  
14:00-16:30

Chairman:

**PAPERS III**

*Rodolfo Caesar* (LaMuT, Escola de Música, UFRJ, Brazil)

UTILIZAÇÃO DE ESTRUTURAS DE DADOS ESPACIAIS PARA REPRESENTAÇÃO DE RECURSOS COMPOSICIONAIS EM MÚSICA

*Ana Miccolis* (Engenharia de Sist. e Computação-COPPE, UFRJ, Brazil)

REPRESENTAÇÃO E RECUPERAÇÃO BASEADA EM CONTEÚDO DE PARTITURAS MUSICAIS EM BASES DE DADOS ORIENTADAS A OBJETOS

*Marisa Beck Figueiredo, Caetano T. Júnior, Agma J. Machado Traina* (Depto de Ciências de Computação e Estatística, USP São Carlos, Brazil)

PROJETO E IMPLEMENTAÇÃO DE UM SISTEMA  
PROBABILÍSTICO VOLTADO À CRIAÇÃO MUSICAL  
*Gilberto Carvalho, Vladimir Agostini Cerqueira* (Escola de  
Música, UFMG, Brazil)

OBJECT-ORIENTED MUSIC ANALYSIS  
*Didier Guigue* (Departamento de Música, UFPB, Brazil)

MUSIC, NEW TECHNOLOGIES AND LATIN AMERICA  
*Ricardo dal Farra* (Estudio de Música Eletroacústica, Buenos  
Aires, Argentina)

THE ELECTROACOUSTIC PRODUCTION OF THE L.M.E. OF  
THE NATIONAL UNIVERSITY OF CORDOBA  
*Martin Alejandro Fumarola* (Laboratory of Electroacoustic  
Music, National University of Córdoba, Argentina)

#### Thursday, 7th

Room: 9

8:00-10:00

Chairman:

#### PAPERS IV

*Geber Lisboa Ramalho* (Depto. Informática, UFPE, Brazil)

necSO — INTERFACE PARA UM SISTEMA DE SÍNTESE E  
PROCESSAMENTO DE SOM (CSound)  
*Maurício Alves Loureiro, Hélder Soares de Souza, Guilherme  
Augusto Soares de Castro, Hugo Bastos de Paula, Leandro de  
Faria Freitas, Marlon Perigolo de Rezende, Willy Garabini  
Cornelissen* (CPCM, Escola de Música, UFMG, Brazil)

NOVAS INTERFACES E A MÚSICA ELETROACÚSTICA  
*Rodolfo Caesar* (LaMuT, Escola de Música, UFRJ, Brazil)

THREE-THREADED INVENTION  
*Aluizio Arcela* (Depto. Ciência da Computação, UnB, Brazil)

### TAPE SOLO CONCERTS

#### Tuesday, 5th

Room: Alvorada

17:00-18:00

#### TAPE SOLO CONCERTS I

ALL BLUE, I WRITE WITH A BLUE PENCIL ON A BLUE SKY  
(1996)  
*Celso Aguiar* (USA-Brazil)

UNÁCRÈS (1996)  
*Ralf Ollertz* (Germany)

CHIMEPLAY (1994)  
*Mara Helmuth* (USA)

CHOI-HUNG (1996)  
*Juan Reyes* (Colombia)

AM STEG (SPACES) (1992-96)  
*Javier Alejandro Garavaglia* (Argentina)

UM CAMINHO NO MEIO DA NOITE (1996)  
*Paulo Vivacqua* (Brazil)

PerCurso (1997)  
*Fernando Iazzetta* (Brazil)

DEL CUADRO A LA POSTERGACIÓN (1994)  
*Patricia Martinez* (Argentina)

CONCRETA (1997)  
*Aquiles Pantaleão* (Brazil)

#### Wednesday, 6th

Room: Alvorada

17:00-18:00

#### TAPE SOLO CONCERTS II

RAMPARTS (1996)  
*Dennis Miller* (USA)

THETA TICKER (1996)  
*James Brody* (USA)

RECITATIVO ELETTRONICO II (1995)  
*Catalina Peralta* (Colombia)

INTO DARKNESS (1996)  
*Thomas Wells* (USA)

TV SCHERZO (1996)  
*Hwang Sung Ho* (Korea)

LA BEAUTÉ INDISCRETÈ D'UNE NOTE VIOLETTE (1995)  
*Jorge Antunes* (Brazil)

ATARI ÉTUDE (1986)  
*Mladen Milicevic* (Bosnia-Herzegovina)

DIAPHANE (1995)  
*Gerald Eckert* (Germany)

TIERRA Y SOL (1996)  
*Ricardo Dal Farra* (Argentina)

ONSET/OFFSET (1996)  
*Pete Stollery* (Scotland)

**MAN-MACHINE CONCERTS****Thursday, 7th**

Room: Alvorada

17:00-18:00

**MAN-MACHINE CONCERTS**

THE PERSISTANCE OF MEMORY (1997)

*Ciaran Hope* (Ireland)

For four saxophones and tape

CAXAMBULISMO (1996)

*Bob Willey* (USA)

For clarinet and Lightning - Buchla Controller

Clarinet: *Maurício Loureiro*

VELOCITY STUDIES IV: FLUTTER (1994)

*Allen Strange* (USA)

For saxophone and digital media.

Saxophone Alto: *Vadim Arski Filho*

KLANG/CLAN (1996)

*Jorge Sad* (Argentina)

For 4 instruments and computer-generated tape.

(Coletivo de Creação sonora: *Juliana Moreno*, flauta; *Enrique**Entenza*, bandoneón; *Germán Meira*, violão; *Martín Devoto*,violoncello and *Jorge Sad*, coordination)

EL PODER DE LO INVISIBLE (1996)

*Carlos Cerana* (Argentina)

Interactive environment for Tai-Chi Chuan performer,

Lightning - Buchla controller and synthesizer

(Felicía Tracogna, Tai-Chi Chuan; *Carlos Cerana*, Synthesizer)**DEMONSTRATION CONCERTS****Monday, 4th**

Room: Alvorada

17:00-18:00

**DEMONSTRATION CONCERTS**

NÉVOAS E CRISTAIS (1995)

*Jônatas Manzolli* (Brazil)

VOX VICTÆ

*Didier Guigue* (France-Brazil)

EL PODER DE LO INVISIBLE

*Carlos Cerana* (Argentina)**ON-LINE CONCERTS****Permanent Exhibition**

Place: Alvorada's Hall

LEXIKON-SONATE (1992-1997)

*Karlheinz Essl* (Austria)

Place: Área de

THREE-THREADED INVENTION (1997)

Exposições

*Aluizio Arcela* (Brazil)

Oeste

**TUTORIALS****Monday (10:00-12:00), Tuesday(8:00-10:00), Wednesday(8:00-10:00)**

Room: 9

08:00-10:00

**TUTORIAL I**

SOUND-DIFFUSION AND THE EXPERIENCES OF SPACE

*Rodolfo Caesar* (LaMuT, Escola de Música, UFRJ, Brazil)

Room: 10

08:00-10:00

**TUTORIAL II**

COMPOSIÇÃO ALGORÍTMICA (DE PROCESSOS

ELEMENTARES À CONSTRUÇÃO DE TIMBRES)

*Jônatas Manzolli* (Núcleo Interdisciplinar de Comunicação

Sonora, Unicamp, Brazil)

**MEETING****Friday, 8th**

Room: 9

9:00-12:00

**NUCOM ANNUAL MEETING**

- Evaluation of IV SBCM
- Strategy for V SBCM (1998/ Fortaleza)
- Election of organizing committee for V SBCM
- Election of NUCOM representative to the SBC

**SBCM'97**

**Realization**

University of Brasilia (Dep. of Computer Science + Dep. of Music)

**Organizing Committee**

Papers: *Jônatas Manzolli, Unicamp*  
Concerts: *Conrado Silva, UnB*  
Tutorials: *Robert Willey, UCSD*  
Secretary: *Lilian Campos, UnB*  
Programmer: *Ricardo Ribeiro, UnB*  
Coordination: *Aluizio Arcela, UnB*

**Promotion**

Brazilian Computer Society

**Cover image:** A moment from the piece  
*Three-Threaded Invention*

**Apoio**

CNPq  
Unimix  
Silicon Graphics  
MSD