2ND INTERNATIONAL CONGRESS ON ART, BRAIN & LANGUAGES

11 & 12TH SEPTEMBER
CASA DA MÚSICA / PORTO / PORTUGAL
INTERVENIENTS

Semir Zeki
University College London, Institute of Neuroesthetics - Berkeley, California

Régine Kolinsky & José Morais
Université Libre de Bruxelles, Research Unit in Cognitive Neurosciences

Manfred Clynes
Georgetown University

Tony Brooks & Eva Petersson
Aalborg University Esbjerg (Denmark), Sensorama Lab

Ivar Hagendoorn
Arnhem School of Dance, Netherlands

Ana Paula Almeida & Zé Paulo Neto
Casa da Música

Eduardo Reck Miranda
University of Plymouth (UK), Interdisciplinary Centre for Computer Music Research

Ana Monção & Rute Costa
Centro de Linguística da Universidade Nova de Lisboa

Richard Gaulin & Isabelle Côté
Aphasic Theatre, Montréal, Canadá

Vo’ Acte

TECHNICAL DATA

SCIENTIFIC COORDINATION
ANA MONÇÃO (CLUNL, PORTUGAL)

VICE-COORDINATION
TONY BROOKS (AUE, DINAMARCA)

SCIENTIFIC COMMITTEE
ANA MONÇÃO E RUTE COSTA (CLUNL, PORTUGAL), EVA PETERSSON E TONY BROOKS (AUE, DINAMARCA), PAUL SHARKEY (UR, UK)

ORGANIZING COMMITTEE
PAULO RODRIGUES (DIR. OF EDUCATIONAL SERVICE OF CASA DA MÚSICA, ANA MONÇÃO (CLUNL, PSYCHOLINGUISTICS AND CLINICAL LINGUISTICS), ANA REBELO E ANDREIA PERIQUITO (CLUNL)

INVESTIGATION UNIT
Psycholinguistics and Clinical Linguistics (Centro de Linguística da Universidade Nova de Lisboa) & Casa da Música’s Educational Service, Porto

MORE INFORMATION
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PArtnErshiP

sPonsoring
THURSDAY 11TH SEPTEMBER MORNING

10:30 - 11:00  Helping through Music
ICDVRA/T/Artabilitation papers presentation
The participants registered in the congress A, B & L can attend to this session with no additional expense.

The participants of ICDVRAT/Artabilitation can attend to A, B & L congress with no additional costs, after registering, cf. registration form.

THURSDAY SEPTEMBER 11 AFTERNOON

13:30  Secretariat opening of A, B & L

14:00 - 15:00  Workshop & Concert Rehearsal with the Orquestra Nacional do Porto
Musical direction to be announced
Tony Brooks interactive visuals
Programme
Luis Tinoco Zapping
Carl Nielsen Symphony n.º 4, Inextinguishable, final movement

15:00 - 15:30  Coffee Break

15:30 - 15:35  Welcoming/Opening of A, B & L

PART I - MUSIC & BRAIN
15:35 - 16:30  How the brain dances music, and music dances the brain: a natural precise process generating emotions - while making timelessness from time: Keynote speaker
Manfred Clynes (USA)

16:30 - 17:00  Singing in the brain: When melody meets language - Régine Kolinsky (Belgium)

17:00 - 17:30  Towards Music Neurotechnology for Special Needs and Therapeutic Opportunities - Eduardo Reck Miranda (UK)

17:30 - 18:00  Music and Dyslexia - José Matias (Belgium)

18:00 - 18:30  Debate

RECITAL
19:00 - 20:30  Manfred Clynes on piano

FRIDAY 12TH SEPTEMBER MORNING

10:30 - 11:00  The neurology of kinetic art - Semir Zeki (UK)

11:00 - 11:30  Dance, Language and the Brain - Ivac Hegendoorn (Netherlands)

PART III - VERBAL LANGUAGE & OTHER LANGUAGES
11:30 - 12:00  Designing for Non-Formal Learning: New Perspectives on Therapy, Learning, and Communication - Eva Pettersson (Denmark)

12:00 - 12:30  Investigation perspectives in linguistics in its relations to other sciences and arts - Ana Monção and Rute Costa (Portugal)

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HOW DO WORKSHOPS FUNCTION?

WORKSHOPS

WORKSHOP A1
Sound-Space - virtual electronic instrument - Ana Paula Almeida & Paulo Neto (Portugal)

WORKSHOP B1
Aphasic Theatre - Isabelle Côté & Richard Gaulin (Canada)

WORKSHOP C1
SoundScapes Virtual Interactive Space (VIS): ArtAbilitation Workshop (Z) - Tony Brooks (Denmark)

FRIDAY SEPTEMBER 12 AFTERNOON

WORKSHOPS

15:00 - 18:00

WORKSHOP A1
GROUP A | 20 PEOPLE | ATELIER 1 & 2

WORKSHOP B1
GROUP C + D | 40 PEOPLE | SALA 2

WORKSHOP C1
GROUP B | 20 PEOPLE | SALA DE ENSAIO 2

WORKSHOP A1
GROUP C | 20 PEOPLE | ATELIER 1 & 2

WORKSHOP B1
GROUP A + B | 40 PEOPLE | SALA 2

WORKSHOP C1
GROUP D | 20 PEOPLE | SALA DE ENSAIO 2

... 

• Each participant can choose 2 workshops: Aphasic Theatre + Workshop of his preference.

• Each participant chooses/indicates the preferred workshop in the registration form: Sound-Space - a virtual electronic instrument or SoundScapes Virtual Interactive Space (VIS): ArtAbilitation Workshop (Z).

• The workshops have limited attendance: Aphasic Theatre - 40 people max and the other 2 workshops - 20 people.

• Participants will be selected by order of registration and balance between groups will be assured.
Enabling access to music making for people with special needs is a key concern. For instance, for those with severe physical disability (spinal cord injury at the neck, head injury or stroke) opportunities for active participation in music making are extremely limited, despite advances in technology. Whilst developments in electronic technologies take place exponentially in health care and within the music industry, there has been little development addressing the well-being and health of people with physical disability within the health and education sectors. I believe that Music Neurotechnology informed by a better understanding of how music affects the brain offers a brighter future for the development of new technologies for special needs and therapeutic opportunities. Music Neurotechnology is a new research area that is emerging at the crossroads of Neuroscience, Engineering Sciences and Music. The development of brain-computer interfaces for music is one important example of ongoing research into this exciting new area. A brain-computer interface, or BCI, allows a person to communicate with, or control computers by means of electro-physiological signals directly from the brain. Moreover, many research advances in the Neurosciences are leading to a deeper understanding of how the brain processes music. Of particular interest is the fact that music seems to engage a number of brain resources that are responsible for vital functions other than music, such as motor control, attention, memory, imagination and emotion. In addition to those with physical disability, groups who may benefit from such technologies include those with behavioral disorders and people with attention deficit hyperactivity disorder.
JOÃO MORAIS  
Music and Dyslexia
I will first briefly examine and evaluate reported evidence of associations between musical and literacy abilities or disabilities. Then, I will describe an original experiment comparing explicit segmentation of speech and tonal stimuli on young normal readers and dyslexics. Finally, I will discuss whether there are theoretical reasons for expecting a close relationship between the two domains, which would allow the training of each kind of ability to exert a direct influence on the other.

MANFRED CLYNES  
How the brain dances music, and music dances the brain: a natural precise process generating emotions - while making timelessness from time
Musical tone was invented for storing emotion: taking it out of the present and conserving it for all time, and for all people. In our present world, storing has improved greatly, but production has gone astray: If for a long time music had served to ennoble, now it serves too often to degrade. Modern money pressure has enslaved the lowest common denominator to market what is easiest and most lucrative. Great and noble music is branded doubly as elitist and as “classical” vis-à-vis identities such as “country and western”, soft rock and a long list of others.
To this tragedy we juxtapose: SuperConductor II. Software that can bring great music to life, to ennoble one. The computer is enlisted in inner human aspirations: not as distraction or entertainment, but rather as a tool for the ennoblement, the real heritage of great music.

RÉGINE KOLINSKY  
Singing in the brain: When melody meets language
In cognitive neurosciences, music and language have often been studied for comparing the cognitive processes involved in each of them. Indeed, some authors view music processing as a by-product of language processing (e.g., Pinker, 1997, How the mind works), while others argue that music involves specific computational processes (e.g., Peretz, 2006, Cognition). Songs provide an ideal material to study the relations between language and music, since they naturally combine a musical dimension, the tune, and a linguistic dimension, the lyrics. Nevertheless, relatively little is known about how intimate speech and music are in song processing and memory. This topic will be discussed by examining behavioral, electrophysiological and neuroimaging evidence.

SEMIR ZEKI  
The neurology of kinetic art
Prof. Zeki will speak freely about his investigation on the neurobiological basis of art, in particular, kinetic art.
WORKSHOPS

RICHARD GAULIN & ISABELLE CÔTE
Aphasic Theatre Workshop

The Aphasic Theater workshops are meant to help aphasic persons to find ways to regain confidence in themselves. Through different types of exercises, we explore all the possibilities available that would help each individual to redefine the communication process.

The range of activities goes from concentration exercises, expressive actions, improvisation, the ability to recreate situation and respond to specified requests or tasks, vocal and breathing techniques, stretching and physical activities, non speaking exercises, free association, free speech abilities, work with emotions and others.

ANA PAULA ALMEIDA & PAULO NETO
Workshop Sound = Space - electronic virtual instrument

Electronic virtual instrument, the Sound-Space changes all body movements into sounds. By means of this computerised technological application one can move, flow and listen. It is one of the most gratifying experiences available in the House of Music and it has excellent results at the level of act, emotion and therapy.

Which sounds does the body produce while moving? The question, even if weird, makes sense when one talks about Sound-Space, one of the most interesting applications of computer technology in the field of music and communication. And what may seem a very difficult thing for those who never tried it is in the end as simple as opening one’s arms, jumping or raising a leg: each movement is translated into sounds.

Two simple steps may awake a piano as if the floor had invisible keys; running may involve several instruments; nodding may make bells ring. It all depends on the instructions given to a computer which is formatted to access all the types of will and that is capable of producing different music styles and an infinite variety of sounds that are either blunt and intense or light and whispering.

Within everyone’s reach, Sound-Space is an electronic virtual instrument that can be tried by one or several people simultaneously. While they move, as they wish, participants see their own performance transformed into sounds.

For their characteristics and huge possibilities of creation this computerised system inspires artists, thrills the audience, in general, both children and elder people, and it opens new possibilities for citizens with special needs who manage to overcome barriers and to have an active performance in the music world through it.

Conceived by Rolf Gehlhaar, Sound-Space has been set in a permanent regime in the Orange Room of the House of Music. Ultra-sonic sensors installed in two contiguous sides capture the positions and movements made within the space and transmit information that is changed into sounds, rhythms, harmonies.

With this instrument, each person becomes a performer. Nobody takes the risk of making a mistake, everything that happens is a progress, a revelation and a way of self-expression.

TONY BROOKS
SoundScapes Virtual Interactive Space (VIS): ActAbilitation Workshop [2]
A review of the conceptualised and realised design aspects*
*a) Conceptualised: Social and self - Interaction and Awareness; Physical-to-Virtual-to-Physical - a jigsaw metaphor

*Ao Alcance de Todos (Porto, Casa da Musica) contribution April 008

Originating in 1987, SoundScapes Virtual Interactive Space [VIS] was first published in 1999 following many years of experiences gained from researching within institutes for people with profound impairment, those undergoing acquired brain injury rehabilitation and others from the community of disabled. The concept targets users of all ages, abilities and disposition, as well as families, careers and professionals. It has a focus on empowering creative expression and playful interactivity within sensor-rich, non-invasive responsive environments. Achievement, motivation and fun are attributes that are targeted. Improvisation for the user and improvisation by the facilitator are involved with a specific targeted mindset towards optimising experiences toward augmenting development of both via new tools to supplement traditional methods of training. The presentation for Art, Brain and Languages features details of the conceptualised and realised designs that contributed to "Ao Alcance de Todos" in April 2008 in Casa da Musica, Porto.

The 3D physical jigsaw concept (a work in progress) will be exemplified and available for delegates to try. SoundScapes is active in developing and building the company’s concept of “Interactive Multisensory Environments” - interested parties are welcome to contact.
SHOW

ON WHEELS
Transdisciplinary show:
dance, theatre, music, circus

Everything on wheels, going on wheels, talking about wheels, all around in this small troupe that shows up not knowing from where, but that appears mysteriously sliding. Sliding around and around, the troupe sets up, to speak out stories of the past and the future. It is with the public that the troupe wants to dance and spin, and in a poetic form to get to know what is the limit of some and the infinity for others, or what feet’s on a wheel, but the whole world...

On Wheels is a working project that integrates handicapped people with disabilities and professionals dancers and actors. This project was born from the first experience performed with participants of the Association of Cerebral Palsy in Lisbon for a project in France, as part of European Year of Inclusion and at 2nd European Forum of Young Creators of Adapted Fashion.

CREDITS
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Ana Rita Barata
Executive Direction
A. Roque
Co-Authors & Performers
Rita Judas, António Oliveira, Juliete Rodrigues
Performers
Vento do Norte
Associação Paralisia Cerebral de Lisboa:
José Marques, Zaida Pugliese, Adelaide Oliveira, Jorge Granadas
Support Team APCL & Performers
António Paiva, Carolina Santos
Vo’Arte Executive Production
Ângela Arroja
Coordinator
Célia Carmona
Production Assistant APCL
Ana Melo
Co-Production
APCL - CRPCCG - Vo’Arte
Ana Paula Almeida has a Master’s Degree in History of Contemporary Art, and a Music degree in Science, both at Faculty of Social Sciences and Humanities, Universidade Nova de Lisboa, Portugal. Presently, she is research fellow at the project Musical Development in Childhood and Early Childhood (Cesem / FisH - UnL), funded by the Foundation for Science and Technology. As a singer she integrated several ensembles: Grupo Vocal Olisipo, Sons em Cena, Madonna Vox Ensemble, and the Choir of Calouste Gulbenkian Foundation.

She collaborates with Companhia de Música Teatral with which she was involved in shows for children such as: Boberbá, Andakibebé, Morte e Nascimento de Uma Flor, Flauta Quase Magica, and Grande Bichofonia. Since 2006, she is a collaborator at the Educational Services of Casa da Música, directing and creating several workshops (Gudigudgi Dada, Ziguizá Ziguizú, Contar a Morte e nascimento de Uma flor, flauta quase Magica, and Grande Bichofonia).

Eduardo Reck Miranda is a composer of chamber and electro acoustic pieces but is most notable in the UK for his scientific research in the combined fields of music and artificial intelligence. He obtained a MSc in Music Technology from the University of York and a PhD in Artificial Intelligence in Music from the Faculty of Music of the Univ. of Edinburgh, Scotland.

Miranda is currently working/lecturing in the University of Plymouth (UK) where he established the Interdisciplinary Centre for Computer Music Research (ICCMR), and he is also an active associate member of the Computer Music Lab at the Federal University of Rio Grande do Sul (UFRGS, Porto Alegre). In addition, Miranda is the regional editor for South America of Organized Sound (COP) and member of Leonardo Music Journal (ML Press) and Contemporary Music Review (Routledge).

He is currently conducting research on neuroscience of music and on simulations of biological natural process in music origins and evolution. His research methodology is predominantly based upon computational modeling and creative practice.

Eva Petersson, PhD, is vice institute head and lecturer in Mediology at Kalmar University Eesterg in Denmark. Her work focuses on the role of artefacts in the development of play, engagement, and learning. She applies this expertise within interdisciplinary teams developing responsive environments for children with different abilities. Emphasis in her current research lies on user-driven design and non-formal learning in different settings. She has lead and coordinated several research and development projects since 1998. Petersson is member of the board of the Pan-European Game Information (PEG) and Interactive Software Federation of Europe (ISFE). She has been the secretary of the International Toy Research Association (ITRA). She is co-founder of the international conference Ludic Engagement Designs for All (LED) that takes place every third year.

Isabelle Côté has been the artistic and administrative director of Théâtre Aphasique since 1996. Actress, comedian, teacher and director, she is bachelor in dramatic art from École Supérieure de Théâtre of the Université du Québec, in Montreal. She is in charge of a theater workshop adapted for aphasic patients, writes and directs theatre shows for the aphasic group. She manages all the administrative, financial and artistic needs of the company (www.theatreaphasique.com).

Ivar Hagendoorn studied econometrics, philosophy and literature at the Erasmus University Rotterdam, at the University of Leiden (both The Netherlands) and at the University College London. He was a visiting scientist and artist at the University of Southern California in Los Angeles and guest lecturer in the Dance Unlimited programme of the Arnhem School of Dance, a post-graduate course in choreography.

His research applies insights from philosophy, cognitive neuroscience, psychology and sociology to the study of art. He has published in various academic journals and books (eg. Oxford University press and Journal of Consciousness Studies) about the nature and perception of dance and choreography by the brain, among other subjects.

Interdisciplinarity is the key word for Ivar who believes that specialization is one of the curses of contemporary science. His research, on the one hand, grew out of dissatisfaction with contemporary aesthetics, whilst, on the other, with the work of a handful of neuroscientists who have written about art. He believes that “whereas the former ignores recent insights from cognitive neuroscience, the latter ignores much of what is and has been happening in contemporary art.”
José Morais is Full professor at the Université Libre de Bruxelles (ULB), where he has been teaching cognitive psychology as well as cognitive psycholinguistics and neuropsychology. He is co-director of the Research Unit in Cognitive Neurosciences of this University. He was member of the Scientific Committee of the French "Observatoire National de la Lecture" for 12 years, and presently he is vice-president of the Association of Psychologie Scientifique de Langue Française and president of the National Committee for Psychological Sciences of the Belgian Academy of Sciences. His main topics of research concern the cognitive organization of the processing systems dealing with both the written and the oral forms of language.

Manfred Clynes is a scientist, inventor, and musician. His work combines music and science, more particularly, neurophysiology and neuroscience. Clynes' musical achievements embrace performance and interpretation, exploring and clarifying the function of time in the expression of music - and of emotions generally - in connection with brain function in its electrical manifestations. As a concert pianist, student and friend of Pablo Casals, he has recorded outstanding versions of Bach's Goldberg Variations and of Beethoven's Diabelli Variations - Albert Einstein considered him "a blessed artist". As an inventor, his inventions (about 40 patents) include, besides the CAI computer (Clynes invented color ultrasound) as well as telemetering, in the field of ultrasound (Clynes invented the auto- and cross-correlator, and inventions in the field of ultrasound (Clynes invented color ultrasound) as well as telemeasuring, data recording, and wind energy. The creative process of computer realizations of classical music with SuperConductor® is based on his discoveries of fundamental principles of musicality. Extensive information about M. Clynes' work can be found on Wikipedia and in his personal page.

Paulo Zé Neto finished graduation in Training and Music Theory at the University of Aveiro. Attended course at the Zoltan Kodály Pedagogical Institute of Music, in Kecskemét in Hungary. Is a team member of the Casa da Música's Educational Department - in Oporto, which develops and produces several workshops. Is a professor of Harp Training, Solfeje and Choir in the Viseu's Piaget Institute and in the Conservatory. Is the musical director and conducts Águeda's Mix Choir. Collaborate as musician / actor in the Music Theatre Company - Lisbon.

Régine Kolinsky has a PhD in Psychology and is a Senior Research Associate of the Fonds de la Recherche Scientifique-FNRS (Free University of Brussels, Belgium). She is also a director of the Research Unit on Cognitive Neurosciences (UNESCO) from the Faculty of Psychology in the same university. Apart from the internationally renowned studies on literacy and learning to read, Kolinsky has developed, together with colleagues from the lab, research on the auditory agnosia (in particular the disorders in music processing), the relations between mental representations of numbers and mental representations of musical notes, between music and verbal language in learning to sing by heart and on the influence of emotion in the different components of cognitive control. She obtained several prizes among which the prize from the University Texts on Social and Human Sciences, organised by the Portuguese Foundation for Science and Technology (Ministry of Science) and by Calouste Gulbenkian Foundation (with P. Ventura and C. Brito-Mendes), as well as the International Wearnes Prize for the research and dissemination of knowledge, both in 2002.

Rute Costa has a degree in Modern Languages and Litteratures, Portuguese and German studies, a Master's and a PhD in Terminology. She is currently Professor at Universidade Nova de Lisboa and a researcher at Centro de Linguística da Universidade Nova de Lisboa. She was scientific coordinator of the Post-graduation in Cultures and Emergent Discourses: from the criticism to the artistic manifestations (UNL & Calouste Gulbenkian Foundation, Lisbon) and from a Master’s in Terminology. She was the President of the European Association of Terminology from 2000 to 2006. She is the scientific coordinator of several projects on Terminology for Institutions like the Assembly of the Portuguese Republic, the Instituto Nacional de Estatistica or the Instituto Camões. She developed the Extraface that is a Terminology tagger and extractor. She is currently supervising twenty Master’s and PhD thesis in Terminology in several universities.

Semir Zeki is Professor of Neurobiology at the University College London since 1980. He was Co-Head of the Welcome Department of Cognitive Neuroscience of this university from 1994 to 2001. Before he worked as a post-doctoral fellow at the University of Wisconsin-Madison and at St. Elizabeths Hospital (Washington, DC) before returning to London, in 1979, as Hancy Head Research Fellow of the Royal Society. Among his scientific achievements one should mention the co-discovery of the motion area in the brain, area V5, in parallel with American scientists John Allman and Jon Kaas. Since then he has written over 150 papers and the following books: A Vision of the Brain [1993], Inner Vision: an exploration of art and the brain [1999], translated into six languages, Balthus ou La Quête de l’Essentiel (1995), which he co-authored with the late French painter Balthus (Count Klossowski de Rola) and Law and the Brain (2006). In 1994, he began to study the neural basis of creativity and the aesthetic appreciation of art, and of emotions like love and art. In 2001, he founded the Institute of Neuroaesthetics based mainly in Berkeley, California. His Prizes include the Minerva Foundation Prize, The LVMH Science pour l’art Prize, the Rank Prize in opto-electronics, The Electronic Imaging Award, the Koetser Prize and the King Faisal International Prize in Biology.
RICHARD GAULIN is an actor, comedian, drama teacher and director. Bachelor of dramatic art from the École Supérieure de Théâtre of the Université du Québec, in Montréal, he has been with Théâtre Aphasique since 1998, developing in collaboration with a speech language therapist, theater and video workshops for aphasic patients at the Hôpital de Réadaptation Villa Médica in Montréal (Canada). He wrote and directed the most recent play Metronome, performed by the Aphasique theater group that won the public prize and the Jury Special Prize in the International Theatre Festival in Mont-Laurier 2007.

VENTO DO MORTE is a unique ensemble of young, talented musicians from around the world. They play saxophones of all shapes and sizes, and offer a richly varied repertoire that ranges from Bach to James Brown. The group was formed in 2005 by Henk van Twillert, internationally renowned saxophonist who teaches at the Amsterdam Academy of Music and the College for Music and Performing Arts in Porto (Escola Superior de Musica e das Artes do Espectáculo). The ensemble is based in Portugal, from where it is rapidly conquering the world: from festivals and theatres in Southern Europe to stages in Caracas, Venezuela.

TONY BROOKS is associate professor at Aalborg University (Esbjerg, Denmark) where he is director of the Virtual Reality SensoramaLab. He is also a European expert reviewer. He has developed a body of work that is recognized as a platform for interdisciplinary research within the field of disability, and this is responsible for marketed product. He received the European EUREKA award in 1999 and the Danish research prize in 2006. His research is responsible for published patents and European and National projects amounting to over €3M. He is President & CEO of SoundScapes – a Danish based SME.

VO’ARTE is a Cultural Association supported by IPAE/ Ministério da Cultura that has as main goals the promotion and diffusion of arts, the support and production of multifaceted artistic projects, and also the encouragement of the reciprocity and collaboration between artists, the formation and artistic research, at both national and international levels.
2ND INTERNATIONAL CONGRESS ON ART, BRAIN & LANGUAGES
REGISTRATION FORM

REGISTRATION DEADLINE 5TH OF SEPTEMBER | CONGRESS TOTAL NUMBER OF REGISTRATIONS 200
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YES ☐ NO ☐

WORKSHOP SOUND SCAPE VIRTUAL INTERACTIVE SPACE (VIS): ARTABILITATION WORKSHOP
YES ☐ NO ☐

SEND YOUR REGISTRATION FORM TO
E-mail: psicolinguistica@fcsh.unl.pt
Adresse: Linha de Investigação n.º 5 do CLUnL, Faculdade de Ciências Sociais e Humanas da Universidade Nova de Lisboa, Av. de Berna 26 C | 1069 - 061 Lisboa

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TECHNICAL DATA

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