About the Contributors

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**Konstantina Martzoukou** is a Lecturer in the Department of Information Management at Aberdeen Business School, Robert Gordon University. She is the Course Leader of the MSc in Information and Library Studies and supervises MSc and PhD students. Her research interests centre on the areas of information-seeking behaviour and information literacy. Her PhD research examined postgraduate students’ information-seeking behaviour when using Web search engines. She is a member of the Academic Council for Aberdeen Business School and of the Institute of Management Governance and Society (IMaGeS) at the Robert Gordon University; an associate member of the Chartered Institute of Library and Information Professionals (CILIP), a committee member of CILIPS Multimedia Information and Technology and a co-opted member of Grampian Information.

**Charilaos Lavranos** is a PhD candidate in the Department of Music Studies, Ionian University, Greece. He holds BA from the Department of Music Studies, Ionian University, and M.Sc. from the Department of Archives and Library Science, Ionian University, Greece. He also holds degree in the trumpet and music theory (fugue and instrumentation) from the Conservatory of Corfu, Greece. His research interests include music information seeking behaviours in relation to creativity. Since 2004 he works as a secondary school music teacher in Greece.

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**Olivier Adam** is Professor at the University Pierre et Marie Curie, Paris, France. Specialist in signal processing and bioacoustics, he is involved in different Research program on analysis of acoustic signals. His interests are extraction of pertinent information and classification.
Michel Cabanac is currently a Retired Professor at Faculty of Medicine, Laval University, Québec, Canada. He obtained his Doctor in Medicine from University of Lyon, France in 1961 and has had positions in both university and hospital settings.

Dorian Cazau -- After a MSc at the Pierre and Marie Curie University (Paris) in Acoustics and Signal Processing, Dorian CAZAU did his PhD at the Institut Jean le-Rond, in the team Lutheria-Acoustique-Musique.

Marc Chemillier is Director of Studies at the EHESS in Paris (School for Advanced Studies in Social Sciences). He received a PhD in Computer Science and also has degrees in Mathematics, Musicology, Philosophy and Anthropology. He has been conducting fieldwork among the Nzakara of Central African Republic to study their harp music, and in Madagascar to work on the ethnomathematics of divination and on the music of the zither. He is the author of Les Mathématiques naturelles (2007). His recent research deals with musical knowledge and improvisation. He has collaborated with IRCAM in Paris (Institute for Research and Coordination Acoustic/Music) on the development of the OMax improvisation software, and he is currently working on ImproteK with Jérôme Nika, a software that he has created in 2009 for interacting with jazz and traditional musicians.

Kirstin Dougan is Music and Performing Arts Librarian and Associate Professor, University Library at the University of Illinois at Urbana-Champaign, where she has worked since 2007. Prior to that she was first a Digital Projects Librarian with the University of Wisconsin-Madison General Library System and then Interim Head and Public Services Librarian at the Duke University Music Library. She teaches Music Librarianship and Bibliography for the Graduate School of Library and Information Science at the University of Illinois at Urbana-Champaign. Kirstin is a member of the Music Library Association, the International Association of Music Libraries, and of the Theatre Library Association. Her research concerning music information seeking behavior, tools, and reference service assessment have appeared in journals such as NOTES, Fontes Artis Musicae, MRSQ, and College & Research Libraries, among others. Kirstin holds a Bachelor of Music (Lawrence University) and a Masters of Music (Ball State University) in Viola Performance, in addition to her MLS from the University of Wisconsin-Madison.

Anastasia Georgaki is Assistant Professor in Music Technology at the Music Department, Athens University. Born at Lefkada island, she continued her studies in Athens where she studied Physics (University of Athens, 1986) and Music (accordion, piano, harmony, counterpoint) at the Hellenic Conservatory of Athens (1981-1990). She continued her studies at IRCAM (Paris, 1990-1995) in music acoustics/technology and musicology of computer music. She holds a PhD in Music and Musicology of the XXth century (IRCAM/EHESS, 1997). During the period 1995-2002 she has been teaching as a lecturer in Music Acoustics and music technology at the Music Department of the Ionian University at Corfu. Since 2002, she has been a lecturer and currently Assistant Professor in Music Acoustics and Technology at the Music Department of the University of Athens. Her research projects focus on the analysis and acoustics/psychoacoustics of the singing voice, the modeling of the prosodic speech in music, the development of tools for the application of new technologies in education, musicological aspects of analysis of vocal performance and musicological matters of the processing of voice through technology in the works of contemporary composers (Manoury, Harvey, Risset, Xenakis, Adamis, Logothetis,
Mache, Christou, etc.). She is also a professional musician (accordion) and has a number of concerts in her portfolio since 1986.

**Wai-Chung Ho** is a professor of music education in the Department of Music at Hong Kong Baptist University. Her substantive research interests are the sociology of music, music education curricula, and the comparative study of East Asian music education. Her research has focused on interlinked areas of development, education policy, and reform in school education, as well as on values in education across school curricula in Chinese contexts, including Mainland China, Hong Kong, and Taiwan. Wai-Chung is a frequent contributor to leading international research journals in education, music education, and cultural studies, and has been published in such top-ranking journals as the British Journal of Music Education, International Journal of Music Education, and Music Education Research. Her book School Music Education and Social Change in Mainland China, Hong Kong and Taiwan (Brill, 2011) examines recent reforms and innovations in school music education within these changing Chinese societies and compares them from a sociopolitical perspective.

**Andrew Jones** has worked in Cardiff University since 1988 and is currently a Senior Lecturer. He has published more than 60 papers and his skills include interoperability of heterogeneous scientific databases, managing scientific knowledge representing conflicting expert opinions, scientific workflow management system interoperability and usability, and Grid and Cloud technology. More recently he has also developed research interests in applications of computers to musical analysis and related tasks.

**Dimitra Karydi** was born in Athens, Greece in 1985. She holds an LL.B (2009) from Aristotle University of Thessaloniki, Greece, an LLM with Merit (2010) in International & Comparative Commercial Law from the School of Oriental & African Studies, University of London, UK and an LLM (2013) in Chinese Law from Tsinghua University, Beijing, People’s Republic of China. Her interests focus on international intellectual property law and particularly copyright law. Currently she is practising law in Corfu, Greece (member of the Corfu Bar Association).

**Ioannis Karydis** was born in Athens, Greece in 1979. He received a BEng. in Engineering Science & Technology from Brunel University, UK in 2000, an MSc in Advanced Methods in Computer Science from Queen Mary University, UK in 2001 and a PhD in Mining and Retrieval Methods for Acoustic and Symbolic Music Data from the Aristotle University of Thessaloniki, Greece in 2006. From June 2006 to February 2007 he worked as a post-doc researcher in Music Databases at the Aristotle University of Thessaloniki, Greece. Since 2007 he is an adjunct lecturer at the dept. of Informatics, Ionian University, Corfu, Greece. During 2013-2014 he was part-time Academic Staff at the Hellenic Open University for the Master’s in Information System course, teaching Specialization in Software Engineering. From December 2014 to May 2015 he worked as a post-doctoral experienced researcher in the field of Music Information Retrieval at the Institute of Language & Speech Processing, Greece. His research interests include music databases, music information retrieval (indexing & searching), music mining, music object representation and cultural informatics. On 2013 he co-founded and since then is the managing director of Creative Web Applications (www.cwa.gr).
Damián Keller (DMA Stanford University 2004; MFA Simon Fraser University 1999) is associate professor at the Federal University of Acre, Brazil, where he coordinates the Amazon Center for Music Research (NAP - Núcleo Amazônico de Pesquisa Musical). Member and founder of the Ubiquitous Music Group (g-ubimus), his research focuses on ecologically grounded creative practice and ubiquitous music. Artistic works include tape pieces, music for theater, film and installations.

Dimitra Kokotsaki is a lecturer at the School of Education and a member of the Education Evaluation Group at the Centre for Evaluation and Monitoring at Durham University. She teaches undergraduate and postgraduate modules on the Arts in Education. She has been principal investigator or co-investigator in a number of research projects including leading the evaluation of the Restorative Approaches initiative in County Durham and a recent piece of research funded by the Nuffield Foundation about improving the primary-secondary transition in music education at the North East of England. She is one of the authors of the Sutton Trust-EEF Teaching and Learning Toolkit and is currently the lead process evaluation researcher for the SHINE/HALLE, Shine in Secondaries and Calderdale EEF evaluations. Her research interests include the identification and improvement of the educational, behavioural and socio-psychological conditions in schools with a specific focus on pupil creativity and engagement. She has recently been appointed as a member of the DiE’s Analytical Associate Pool.

Marinos Koutsomichalis (Athens, 1981) is an artist and researcher. Via sound and a wide range of other media he interrogates the specifics of perception, technology and material and by means of a hypermedia, project-based and site-responsive methodology. He has worked as research fellow in the University of Turin and has lectured in the Technical University of Crete and in the Contemporary Music Research Center (CMRC-KSYME). He has being responsible for numerous scientific publications and for numerous workshops/talks worldwide. He is a Candidate PhD in Music, Sound and Media Art in De Montfort University (Leicester, U.K.) and has an MA in Music by the University of York (U.K.). As an artist he has widely presented his work internationally in all sorts of milieus ranging from leading museums and acclaimed art festivals to industrial sites and from churches to scientific conferences. He has produced artworks in collaboration with various institutions worldwide.

Maria Helena de Lima (Ph.D. in Education, UFRGS 2013) is professor at Application College/Music Education Area of Federal University of Rio Grande do Sul (UFRGS), Brazil. She is founder of the NGO Music & Citizenship (2000). Her research focuses on educational field (Basic School Education, High School), Popular and Dialogical Education, Popular Culture, Education and community, learning music, musical semantics, music education and Information and Communication Technologies, and the complexity, multidisciplinar and transdisciplinarity aspects related to these fields. She is member and researcher of the Ubiquitous Music Group (G-ubimus).

Sergej Lugovic is a senior lecturer teaching Information Economy, Technology Entrepreneurship and e-business at the Polytechnic of Zagreb, Croatia. He’s also a PhD student at the Information Science department of the Faculty of Humanities and Social Sciences, University of Zagreb. His research interests are information behavior and needs in intelligent socio-technical systems. He holds a Master of Science degree from Plekhanov Russian University of Economics and an MBA from The London College UCK. Along with his academic career, he had a business career in Moscow, London, and Zagreb, working for blue chip companies, for the government of the Republic of Croatia, in technology ventures, and in the fashion and the music industries.
**About the Contributors**

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**David Marshall** is a Professor in the School of Computer Science and Informatics, Cardiff University, UK. He received his BSc in 1986 from University College, Cardiff in 1986 and obtained his PhD “Three Dimensional Inspection of Manufactured Objects” from there in 1990. His research interests include human facial analysis, high dimensional subspace analysis, audio/video image processing, and data/sensor fusion. He has published over 130 papers and one book in these research areas. He is a member of the IEEE Computer Society and the British Machine Vision Association.

**Nobuo Masataka** is Professor of Primate Research Institute, Kyoto University. He obtained Ph.D. from Osaka University in the ethological study of vocal communication in New World primates. As Assistant Professor of Kyoto University and of the University of Tokyo, he published numerous articles about language learning of preverbal infants as well as a book “The Onset of Language” from Cambridge University Press. His current interest is cognitive neuroscience research with humans and nonhuman primates, including NIRS studies.

**Nicolas Misdariis** is a research fellow and the co-head of Ircam / Sound Perception and Design team. He is graduated from an engineering school specialized in mechanics (CESTI-SupMeca); he got his Master level on Acoustics at LAUM (Le Mans) and his PhD at CNAM (Paris) on the following topic: synthesis/reproduction/perception of musical and environmental sounds. Since 1995, he has worked at Ircam as researcher where he took part in several projects concerning different fields of research dealing with sound science and technology. In 1999, he contributed to the constitution of the Ircam / Sound Design team where he has mainly developed works related to sound synthesis, diffusion technologies, environmental sound and soundscape perception, auditory display or interactive sonification. Since 2010, he is also a lecturer within the Master of Sound Design in the Fine Arts school at Le Mans.

**Leonid I. Perlovsky**, Prof of Psychology, Northeastern Univ, CEO LPIT, Visiting at Harvard SEAS, Harvard Medical School Martins Brain Imaging, Tech Advisor and Principal Scientist at the AF Research Lab. New cognitive mathematics, dynamic logic, modeling the mind, solving problems unsolvable for decades: computational complexity, cognition and language, emotionality of languages and cultures, cognitive functions of music, hierarchy of abstract models, models of cultures, cognitive algorithms improved 100s and 1000s times. Models are experimentally confirmed. Startups predicted 9/11 market crash a week before the event and collaborated with SEC. A keynote plenary speaker, including at the Nobel Forum; more than 500 papers, 17 chapters, 4 books, 2 patents. Chairs the IEEE Mind & Brain Task Force, the International Neural Network Society Board of Governors, in the past Chair of The Award Committee; founder and Editor-in-Chief “Physics of Life Reviews;” IF=9.5, #4 in the world. International awards: the Gabor Award; the John McLucas Award, the highest US Air Force Award for basic research. Transitions to intelligence, endorsed by General Officers, by the Deputy Secretary for Defense, by the Secretary for Defence.
Mark Reybrouck (1952) studied Physical Education, Physical Therapy and Musicology (KU Leuven, Belgium). In 1980 he was awarded by the Royal Flemish Academy of Belgium for Sciences and Arts. He is actually professor of music education and music psychology at KU Leuven. His major research interests are interdisciplinary in bringing together insights from the fields of psychology, biology, semiotics and music. His actual research agenda concerns listening strategies and musical sense-making with a major focus on musical semantics and biosemiotics as applied to music. At a theoretical level he is involved in foundational work about music cognition and perception, especially the biological roots of musical epistemology and the embodied and enactive approach to dealing with music. He also conducted empirical research to uncover the mechanisms of musical sense-making with a focus on representational and metarepresentational strategies in music-listening tasks. He was or is actually a member of the Co-operative for systematic and comparative musicology, the International Project on Musical Signification, The International Project on Biosemiotic Studies, the Semiotic Society of America and the Flemish division of the International Society for Music Education. He published a lot of papers and book chapters in international journals and was a speaker at many international conferences. He is also author of two books on listening strategies and co-editor of two books on musical semiotics.

Kirill Sidorov was born in Russia. He received his BSc in engineering and his PhD in computer science from Cardiff University, UK. Dr Sidorov is currently a lecturer in the School of Computer Science and Informatics at Cardiff University, where he pursues research in computer vision, graphics, robotics, and computational music. He also plays the violin and the piano, and occasionally composes music.

Alexander Sigman’s award-winning instrumental, electroacoustic, multimedia, and installation works have been featured on major international festivals, exhibitions, institutions, and venues across Europe, Asia, Australia, and the US. In June 2007, Sigman was Composer-in-Residence at the Musiques Démesurées festival in Clermont-Ferrand, France. Subsequently, he was awarded residency fellowships by the Akademie Schloss Solitude (Stuttgart, Germany), the Djerassi Foundation, and the Paul Dresher Ensemble Artists Residency Center. In 2013-2014, he undertook a musical research residency at IRCAM. Nominal/Noumenal, Sigman’s first portrait recording, was released on Carrier Records in 2012. This album features performances by Les Percussions de Strasbourg, Ensemble SurPlus, and ensemble ascolta. His violin and electronics piece VURTRUVURT is included on violinist/violist Miranda Cuckson’s solo CD Melting the Darkness, released in November 2014 on the Urlicht Audiovisual label. Sigman completed his doctorate in Music Composition at Stanford University in 2010. Prior to Stanford, he obtained a BM in Music and a BA in Cognitive Sciences from Rice University. Further postgraduate studies were undertaken at the University for Music and the Performing Arts Vienna, as well as the Institute for Sonology of the Royal Conservatory in The Hague (Netherlands). More information may be found here: www.lxsigman.com.

Spyros Sioutas was born in Greece, in 1975. He graduated from the Department of Computer Engineering and Informatics, School of Engineering, University of Patras, in December 1997. He received his Ph.D. degree from the Department of Computer Engineering and Informatics, in 2002. He is now an Associate Professor in Informatics Department of Ionian University. His current research interests include: Algorithmic Data Management, Spatio-Temporal Database Systems, Distributed Data Structures and P2P Overlays, Cloud Infrastructures, Indexing, Query Processing and Query Optimization. He has published over 150 papers in various scientific journals and refereed conferences (amongst others SIG-
MOD Record, Algorithmica. Theoretical Computer Science, Computer Journal, Data and Knowledge Engineering, Journal of Discrete Algorithms, Distributed and Parallel Databases, Journal of Systems and Software, Artificial Intelligence Review Journal, International Journal on Artificial Intelligence Tools, Information Science, Neurocomputing, ESA, ICALP, ISAAC, DEXA, PSD, SAC, AIAI, CIKM, MDM, PODC, ICDT/EDBT, SODA, SIGMOD e.t.c.) and he has more than 550 citations. He was selected to attend as Postdoc Researcher the summer school on “massive data sets” in BRICS (Basic Research in Computer Science) department, University of Aarhus, Denmark, June 2002. He was visiting researcher in Kings College, University of London (research domain: String Algorithmics and I/O complexity), London, England, April 2005. He was also visiting researcher in MADALGO (research domain: “Deterministic Data Structures over P2P Networks”), Aarhus, Denmark, December 2008. He has 18 years working experience as a Developer, Software Tester, Database Administrator and Project Manager at Computer Technology Institute (Research Unit 7) and DBIS Lab (http://di.ionio.gr/dbislab).

Sofia Stavropoulou was born in Athens and she is a graduate of the Faculty Music science and Art in the University of Macedonia. She is also a graduate of the master’s program Music Culture and Communication of the UOA. Holds a bachelor in Byzantine music and also a degree in Counterpoint and a degree in Singing. She is a Phd candidate at the faculty of Music studies UOA: Cultivation of child voice with the help of new assistive technologies. She works as musician in primary and secondary education and as an adult trainer in public Institutions in sound engineering, music technology and pre-school education. She is also a student in the postgraduate programme: Adult Education in the Open University of Greece.