


CURRICULUM VITAE

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Position: Assistant Professor

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RESEARCH INTERESTS

- Networked Music Performance
- Machine Listening Systems
- Music Information Retrieval
- Audio Signal Processing
- Interactive Audio Systems
- Virtual Collaboration Environments
- Human Computer Interaction

FORMAL EDUCATION

2014 - PhD in Systematic Musicology, University Hamburg, DE

Dissertation Title: Real-time Segmental Machine Listening and Re-synthesis for Networked Music Performance

1998 - MSc in Music Technology, University of York, UK

Thesis Title: Fractal Audio Format: a fractal approach to audio compression

1997 - Degree in Physics, National & Kapodistrian University of Athens, GR

Thesis Title: Fourier analysis of acoustic signals

1997 - Degree in Music Harmony & Higher Level Studies in Piano Performance

Athenaeum Conservatory, GR

PROFESSIONAL EXPERIENCE

May 2019 – Today, Assistant Professor, Hellenic Mediterranean University, Department of Music Technology and Acoustics, Rethymnon, GR

March 2017 – May 2019, Assistant Professor, Technological Educational Institute of Crete, Department of Music Technology and Acoustics Engineering, Rethymnon, GR

October 2005 – March 2017, Lecturer, Technological Educational Institute of Crete, Department of Music Technology and Acoustics Engineering, Rethymnon, GR

March 2001 – September 2005, R&D Engineer, Foundation for Research and Technology Hellas (FORTH), Institute of Computer Science, Human Computer Interaction Laboratory, Heraklion, GR

July 2000 – December 2000, R&D Engineer, Sony Digital Media Europe, Brussels, BE

February 1999 – June 2000, Software Engineer, ç Brussels, BE

ACADEMIC ACTIVITIES

A. PARTICIPATION IN FUNDED RESEARCH

B. Scientific Coordination

- June 2021 – December 2023, [MusiCoLab – Virtual Music Education and Collaboration Laboratory](#), Implemented in the context of EPAnEK 2014 -2020 Operational Programme, Co-financed by Greece and the European Union
- July 2006 – May 2008, [D.I.A.MOUS.ES - Distributed InterActive communication environment for live MUSic performancE\(S\)](#), Implemented in the context of Regional Operational Programme of Crete 2000-2006, Co-financed by the European Regional Development Fund and the Crete Region

C. Research and Development

- April 2012 – September 2015, [MusiNet: Comprehensive Design and Implementation of a Networked Music Performance System](#), Thales Program Reinforcement of the interdisciplinary and/or inter-institutional research and innovation, General Secretariat of Research & Technology, Greek Ministry of Education, Life-long learning & Religious Affairs
- September 2012 – May 2015, P-Nets: Practice networks - Emergent knowledge processes in virtual alliances, Archimedes III – Strengthening the Research Groups of the T.E.I. of Crete - Emergent knowledge processes in virtual alliances, Archimedes III – Strengthening the Research Groups of the T.E.I. of Crete
- February 2011 – December 2012, AMIBIO – Automatic Monitoring and Inventorying of Biodiversity, FP7 Life+
- January 2007 – March 2008, eKoNES, Implemented in the context of Regional Operational Programme of Crete 2000-2006, Co-financed by the European Regional Development Fund and the Crete Region

- October 2004 – September 2005, MICOLE, Funding Program: FP6-IST, Project Reference: 51159
- January 2004 – May 2004, WEBFAIR, Funding Program: FP5-IST, Project Reference: IST-2000-29456
- June 2004 - September 2004, ASPIDA, Funding Program: FP5-IST, Project Reference: IST-2002-37796
- May 2003 – December 2003, 2WEAR, Funding Program: FP5-IST
Project Reference: IST-2000-25286
- January 2002 – April 2003, PALIO, Funding Program: FP5-IST
Project Reference: IST-1999-20656
- October 2002 – December 2002, SEN-IST-NET, Funding Program: FP5-IST, Project Reference: IST-2000-26449
- July 2001 – September 2002, VIEW-of the Future, Funding Program: FP5-IST, Project Reference: IST-2000-26089
- March 2001 – June 2001, Inclusive-by-Design, Project Reference: VP/2000/008

D. TEACHING

Postgraduate (MSc) courses at the Department of Music Technology and Acoustics (Hellenic Mediterranean University):

- Digital Sound Processing

Undergraduate courses at the Department of Music Technology and Acoustics (TEI of Crete):

- Special Topics in Music Programming
- Music Communication Protocols
- Sound Synthesis
- Multimedia Applications
- Musical Acoustics – Organology
- Introduction to Programming

Undergraduate courses at the Department of Music Technology and Acoustics (Hellenic Mediterranean University):

- Introduction to Computer Science
- Structured Programming
- Digital Music Representations
- Object Oriented Programming

E. MSc THESIS SUPERVISIONS

- Ioannis Triantafyllou, “Visualisation of Expressive Deviations in Music Performance” (in Greek), Completed January 2021
- Michael Starakis, “Inverse physical parameter estimation of vibrating membranes (drum heads) from sound using deep neural networks” (in Greek), Completed March 2022

F. INVITED SPEAKER

- December 2017, Computational Ethnomusicological Archiving, Hamburg, Germany
- December 2009, Music in the Global Village, Budapest, Hungary

G. SCIENTIFIC ARTICLE REVIEWER

- Journal of the Acoustical Society of America
- Springer Books
- Computer Music Journal, International Journal, Publisher: MIT Press
- SysMus10, the Third International Conference of Students of Systematic Musicology
- Universal Access in the Information Society, International Journal, Publisher: Springer Berlin / Heidelberg
- HCI International 2003, Conference Proceedings
- HCI International 2001, Conference Proceedings

H. RESEARCH PROPOSAL REVIEWER

Participated in the evaluation of a number of research proposals submitted for funding at:

- General Secretariat of Research and Technology
- Hellenic Foundation for Research and Innovation
- Several Regional Funding Organisations in Greece

I. ADMINISTRATIVE POSITIONS

- **September 2021 – Today, Deputy Head of Department** of Music Technology and Acoustics, Hellenic Mediterranean University
- **June 2018 – August 2019, Head of Department**, Head of Department of Music Technology and Acoustics, Hellenic Mediterranean University

PUBLICATIONS

A. ACADEMIC HANDBOOKS

- [1] Koutras T., Zervas P., **Alexandraki C.**, Hatziantoniou P., Zarouchas T. Sound, Speech and Music processing and Analysis Handbook. Kallipos, Hellenic Academic Ebooks [in Greek/in Progress]

B. JOURNAL PAPERS

- [2] Kaselouris E., **Alexandraki C.**, Bakarezos M., Tatarakis M., Papadogiannis N.A., Dimitriou V.(2022): A Detailed FEM Study on the Vibro-acoustic Behaviour of Crash and Splash Musical Cymbals, *International Journal of Circuits, Systems and Signal Processing*, vol.16: pp. 948-955, <https://doi.org/10.46300/9106.2022.16.116>
- [3] **Alexandraki C.** & Bader R. (2016): Anticipatory Networked Communications for Live Musical Interactions of Acoustic Instruments, *Journal of New Music Research*, doi: <http://doi.org/10.1080/09298215.2015.1131990>
- [4] Akoumianakis, D., & **Alexandraki, C.** (2012): Collective Practices in Common Information Spaces: Insight from Two Case Studies, *Human-Computer Interaction Journal*, 27(4): 311-351, <https://doi.org/10.1080/07370024.2012.678235>
- [5] **Alexandraki C.** & Akoumianakis D. (2010): Exploring New Perspectives in Network Music Performance: The DIAMOUSES Framework, *Computer Music Journal*, 34(2): 66-83

C. BOOK CHAPTERS

- [6] **Alexandraki C.** (2018). Experimental Investigations and Future Possibilities in Network-Mediated Folk Music Performance. In Bader R., ed. *Computational Phonographical Archiving*, Springer, pp. 207-228. https://doi.org/10.1007/978-3-030-02695-0_10
- [7] Zervas P. & **Alexandraki C.** (2015). Facilitating Open Source Software and Standards to Assembly a Platform for Networked Music Performance. In: Kanelopoulos D., ed. *Emerging Research on Networked Multimedia Communication Systems*, IGI Global Inc., pp. 334-365. <https://doi.org/10.4018/978-1-4666-8850-6.ch011>
- [8] Zervas P. & **Alexandraki C.** (2012). The Realisation of Online Music Services through Intelligent Computing. In: Kanelopoulos D., ed. *Intelligent Multimedia Technologies for Networking Applications: Techniques and Tools*, IGI Global Inc., pp. 291-317. <https://doi.org/10.4018/978-1-4666-2833-5.ch012>
- [9] **Alexandraki C.** & Valsamakis N. (2009) Enabling Virtual Music Performance Communities. In: Akoumianakis D., ed. *Virtual Community Practices and Social Interactive Media: Technology Lifecycle and Workflow Analysis*, IGI Global Inc., pp. 376 – 397, <https://doi.org/10.4018/978-1-60566-376-0.ch019>

D. CONFERENCE PROCEEDINGS

- [10] **Alexandraki, C.**, Akoumianakis, D., Kalochristianakis, M., Zervas, P., Kaliakatsos-Papakostas, M. and Cambouropoulos, E., 2022. MusiCoLab: Towards a Modular Architecture for Collaborative Music Learning. *Web Audio Conference 2022 (WAC 2022)*, Cannes, France. <https://doi.org/10.5281/zenodo.6770559>
- [11] Akoumianakis, D., **Alexandraki, C.**, Milios, D. Nousias, A., 2022, Synchronous Collaborative Music Lessons and their digital materiality. *Web Audio Conference 2022 (WAC 2022)*, Cannes, France. <https://doi.org/10.5281/zenodo.6768537>
- [12] Kalochristianakis, M., Zervas, P. and **Alexandraki C.**, 2022. An Intelligent Data Repository Consol-idating Artifacts of Music Learning. *Web Audio Conference 2022 (WAC 2022)*, Cannes, France <https://doi.org/10.5281/zenodo.6768630>
- [13] Kaselouris E., **Alexandraki C.**, Orphanos Y., Bakarezos E., Tatarakis M., Papadogiannis N., Dimitriou V. (2021). “Acoustic analysis of impact sound on vibrating circular membranes,” *Proceedings of INTER-NOISE and NOISE-CON, Institute of Noise Control Engineering*, 263:3, pp. 3378-3385
- [14] Akoumianakis D., **Alexandraki C.**, Alexiou V., Anagnostopoulou C., Eleftheriadis A., Lalioti V., Mastorakis Y., Modas A., Mouchtaris A., Pavlidi D., Polyzos G.C., Tsakalides P., Xylomenos G. and P. Zervas. (2015). “The MusiNet project: Addressing the challenges of Networked Music Performance systems,” *Proceedings of The 6th International Conference on Information, Intelligence, Systems and Applications, IISA 2015, IEEE*
- [15] Akoumianakis D., **Alexandraki C.**, Alexiou V., Anagnostopoulou C., Eleftheriadis A., Lalioti V., Mouchtaris A., Pavlidi D., Polyzos G.C., Tsakalides P., Xylomenos G. and P. Zervas. (2014). “The MusiNet project: Towards unravelling the full potential of Networked Music Performance systems, ” *Proceedings of The 5th International Conference on Information, Intelligence, Systems and Applications, IISA 2014, IEEE*
- [16] **Alexandraki C.** and R. Bader. (2014). "Using computer accompaniment to assist networked music performance," *Proceedings of the AES 53rd Conference on Semantic Audio*, pp. 1-10. **[Best Poster Award]**

- [17] Akoumianakis D., Ktistakis G., Vlachakis G., Zervas P., and **C. Alexandraki**. (2013). "Collaborative music making as 'remediated' practice: Blending boundary objects and cloud services", *Proceedings of the 18th International Conference on Digital Signal Processing (DSP2013)*, Santorini, Greece, IEEE Press.
- [18] **Alexandraki C.** and R. Bader. (2013). "Real-time concatenative synthesis for networked musical interactions," *Proceedings of Meetings on Acoustics*, 19, art. no. 035040, 9 p.
- [19] Akoumianakis, D. & **Alexandraki, C.** (2010). Understanding Networked Music Communities through a practice-lens: Virtual 'tells' and cultural artifacts, *2nd International Conference on Intelligent Networking and Collaborative Systems (INCoS 2010)*, November 24-26, Thessaloniki, Greece, IEEE Computer Society, pp. 62-69
- [20] Akoumianakis D., Vellis G., Milolidakis I., Kotsalis D., **Alexandraki C.** (2008) "Distributed collective practices in collaborative music performance", *Proceedings of the 3rd International Conference on Digital Interactive Media in Entertainment and Arts (DIMEA 2008)*, 10-12 September 2008, Athens, Greece, pp. 368-375
- [21] **Alexandraki C.**, Koutlemanis P., Gasteratos P., Valsamakis N., Akoumianakis D., Milolidakis G., Vellis G., Kotsalis D. (2008) "Towards the Implementation of a Generic Platform for Networked Music Performance: The DIAMOUSES approach", *Proceedings of the ICMC 2008 International Computer Music Conference (ICMC 2008)*, 24-29 August 2008, Belfast, Northern Ireland, pp. 251-258
- [22] **Alexandraki C.**, Koutlemanis P., Gasteratos P., Akoumianakis D., Milolidakis G., Vellis G., Kotsalis D. (2008). "DIAMOUSES: An experimental platform for network-based collaborative musical interactions", *Proceedings of the ICEIS 2008 International Conference on Enterprise Information Systems*, 12-16 June 2008, Barcelona, Spain, pp. 30-37
- [23] **Alexandraki C.**, Kalantzis I. (2007). "Requirements and Application Scenarios in the Context of Network Based Music Collaboration", *Proceedings of the AXMEDIS 2007 Conference i-maestro workshop*, 28-30 November 2007, Barcelona, Spain, pp. 39-46
- [24] Basdekis, I., **Alexandraki, C.**, Mourouzis, A., & Stephanidis, C. (2005). "Incorporating Accessibility in Web-Based Work Environments: Two Alternative Approaches and Issues Involved", *Proceedings of the 11th International Conference on Human-Computer Interaction (HCI International 2005)*, 22-27 July 2005, Las Vegas, Nevada, USA.
- [25] **Alexandraki C.**, Paramythis A. Maou N. Stephanidis C. (2004) "Web accessibility through adaptation", *Proceedings of 9th International Conference on Computers Helping People with Special Needs ICCHP*, Springer-Verlag Publishers LNCS 3118, 7-9 July 2004, Paris, France, pp 302-309
- [26] Paramythis A., **Alexandraki C.**, Segkos I., Maou N., Stephanidis C. (2003) "Personalisable, Context-aware Services: The PALIO approach", *Proceedings of the HCI International 2003-Volume IV Universal Access in HCI*, Lawrence Erlbaum Associates Publishers, 22-27 June 2003, Crete, Greece, pp 582-586
- [27] Paramythis A., **Alexandraki C.**, Segkos I., Maou N., Stephanidis C. (2003) "The PALIO Framework for Hypermedia Adaptations", *Proceedings of the HCI International 2003-Volume IV Universal Access in HCI*, Lawrence Erlbaum Associates Publishers, 22-27 June 2003, Crete, Greece, pp 587-591