

List of Publications

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Books

I wrote a chapter on spatial audio effects for the book Digital Audio Effects [1], published by Wiley. The book is one of the deliverables of the European COST-G6 Action on Digital Audio Effect, a four-years scientific cooperation initiative started in 1998. I also contributed a chapter of a book published by Springer under the auspices of the European Mathematical Society [2].

The book collecting the most significant scientific results of the Sounding Object project [3] is published and freely available.

My textbook on sound processing [4] is published and freely available. It can be reviewed at theassayer.org.

Scientific Articles in Journals

Most of my scientific work can be classified under the label H.5.5 (Sound and Music Computing) of the ACM Computing Classification System.

- Sound Synthesis by Physical Modelling [5, 6, 7, 8]
- Algorithms, Structures, and Methods for Physical Modelling [9, 10, 11, 12, 13, 7]
- Artificial Reverberation and 3-D Sound [11, 14, 15, 16, 17]
- Auditory Display [18, 19]
- Surveys on Sound in Multimedia Systems [20, 21, 22, 23]
- Perception for Human-Computer Interface Modelling [24, 25]
- Approximation [26]

Most journal articles are available from my official web page.

Other Contributions to Journals

I contributed to a definition of the discipline of Sound and Music Computing [27], that has been included as a subtopic of topic H.5: Information Interfaces and Presentation of the ACM Computing Classification System. I also contributed to outlining a curriculum on Sound and Music Computing for Computer Engineering students [28].

A multimedia presentation has been selected for publication in the annual CD-ROM supplement of the journal IEEE Computer Graphics and Applications [29].

Scientific Articles in Conference Proceedings (incomplete)

The following is a selection of papers that appeared in Conference Proceedings, listed by year:

- 1992 [30, 31]
- 1993 [32, 33, 34]
- 1994 [35, 36]
- 1995 [37, 38, 39, 40, 41]
- 1996 [42, 43, 44]
- 1997 [45, 46, 47]
- 1998 [48, 49, 50, 51, 52, 53, 54]
- 1999 [55, 56, 57, 58]
- 2000 [59, 60, 61]
- 2001 [62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72]
- 2002 [73, 74, 75, 76, 77, 78, 79]
- 2003 [80, 81, 82, 83, 84]
- 2004 [85, 86, 87, 88, 89, 90]

Most papers published in years 2001 – 2003 report results of the EU project “SOB - the Sounding Object” and can be downloaded from the SOB web site.

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