

Related Literature v1.5

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Related Literature: v1.5

- » P.G. Adamczyk, S.H. Collins, and A.D. Kuo. The advantages of a rolling foot in human walking. *Journal of Experimental Biology*, 209(20):3953, 2006.
- » J.M. Adrien. The missing link: modal synthesis. 1991.
- » H. Iwata and. Walking about virtual environments on an infinite floor. In *Proc. of IEEE Virtual Reality*, 1999.
- » S. aus der Wiesche. Computational slosh dynamics: theory and industrial application. *Computational Mechanics*, 30:374–387, 2003.
- » Federico Avanzini and Paolo Crosato. Integrating physically based sound models in a multimodal rendering architecture: Research articles. *Comput. Animat. Virtual Worlds*, 17(3-4):411–419, 2006.
- » F. Avanzini and D. Rocchesso. Controlling material properties in physical models of sounding objects. In *Proceedings of the International Computer Music Conference 2001*, pages 91–94, La Habana, Cuba, 2001.
- » F. Avanzini and D. Rocchesso. Modeling Collision Sounds: Non-linear Contact Force. *Proc. COST-G6 Conf. Digital Audio Effects (DAFX-01)*, pages 61–66, 2001.
- » F. Avanzini and D. Rocchesso. Modeling collision sounds: non-linear contact force. In *Proc. Conf. on Digital Audio Effects (DAFX-01)*, pages 61–66, Limerick, December 2001.
- » F. Avanzini and D. Rocchesso. Physical modeling of impacts: theory and experiments on contact time and spectral centroid. In *Proc. Int. Conf. on Sound and Music Computing (SMC'04)*, pages 287–293, 2004.
- » W. Benjamin. *The Arcades Project*. Harvard Univ. Press, 1999.
- » S. Bilbao. Robust physical modeling sound synthesis for nonlinear systems. *Signal Processing Magazine, IEEE*, 24(2):32–41, March 2007.
- » J. Blauert. *Spatial Hearing: the Psychophysics of Human Sound Localization*. MIT Press, Cambridge, MA, 1983.
- » G. Borin, G. De Poli, and D. Rocchesso. Elimination of Delay-Free Loops in Discrete-Time Models of Nonlinear Acoustic Systems. *IEEE Trans. on Speech and Audio Processing*, 8(5):597–605, September 2000.
- » J. Borwick, editor. *Loudspeaker and Headphone Handbook*. Focal Press, Oxford (UK), 1998.
- » R. Bresin, S. Delle Monache, F. Fontana, S. Papetti, P. Polotti, and Y. Visell. Auditory feedback from continuous control of crumpling sound synthesis. In *CHI 2008 Workshop on Sonic Interaction Design*, Florence, Italy, Apr. 5-10 2008. ACM.

-
- » P. A. Cabe and J. B. Pittenger. Human sensitivity to acoustic information from vessel filing. *Journal of Experimental Psychology: Human Perception and Performance*, 26(1):313–324, 2000.
 - » C. Carello, K. L. Anderson, and A. J. Kunkler-Peck. Perception of object length by sound. *Psychological Science*, 9(3):211–214, May 1998.
 - » A. Chaigne and J. Kergomard. *Acoustique des Instruments de Musique*. Belin, 2008.
 - » M. Chion. *Audio-Vision*. Columbia Univ. Press, New York, USA, 1994.
 - » P. Chueng and P. Marsden. Designing Auditory Spaces to Support Sense of Place: The Role of Expectation. *CSCW Workshop: The Role of Place in Shaping Virtual Community*, 2002.
 - » J. Edward Colgate and J. Michael Brown. Factors Affecting the Z-Width of a Haptic Display. In *Proc. IEEE Int. Conf. on Robotics & Automation*, pages 3205–3210, San Diego, May 1994.
 - » P. R. Cook. Physically informed sonic modeling (PHISM): Synthesis of percussive sounds. *Computer Music Journal*, 21(3):38–49, 1997.
 - » P. R. Cook. Modeling Bill's gait: Analysis and parametric synthesis of walking sounds. In *Proc. Audio Engineering Society 22 Conference on Virtual, Synthetic and Entertainment Audio*, Espoo, Finland, July 2002. AES.
 - » P.R. Cook. *Real Sound Synthesis for Interactive Applications*. AK Peters, Ltd., 2002.
 - » D. H. Cress. Terrain considerations and data base development for the design and testing of devices to detect intruder-induced ground motion. Technical Report M-78-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Miss., 1978.
 - » M. de Certeau. *The Practice of Everyday Life*. Univ. of California Press, 1984.
 - » T. Delbruck, A. M. Whatley, R. Douglas, K. Eng, K. Hepp, and P. F. M. J. V. Verschure. A tactile luminous floor for an interactive autonomous space. *Robotics and Autonomous Systems*, 55:433–443, 2007.
 - » A. DeWitt and R. Bresin. Sound design for affective interaction. In *Affective computing and intelligent interaction ACII 2007*, pages 523–533, 2007.
 - » N. Diolaiti, C. Melchiorri, and S. Stramigioli. Contact impedance estimation for robotic systems. *IEEE Transactions on Robotics*, 21(5):925–935, 2005.
 - » C. Drioli and D. Rocchesso. Acoustic rendering of particle-based simulation of liquids in motion. In *Proceedings of the 12th DAFX Conference*, 2009.
 - » P. Dupont, V. Hayward, B. Armstrong, and F. Altpeter. Single state elastoplastic friction models. *IEEE Transactions on Automatic Control*, 47(5):787–792, 2002.
 - » A. Ekimov and J. Sabatier. [Vibration and sound signatures of human footsteps in buildings](#). *J. Acoust. Soc. Am.*, Jan 2006.

-
- » A. Ekimov and J. Sabatier. [A review of human signatures in urban environments using acoustic and seismic methods](#). In Proc. of IEEE Technologies for Homeland Security, 2008.
 - » Douglas Enright, Stephen Marschner, and Ronald Fedkiw. Animation and rendering of complex water surfaces. In SIGGRAPH '02: Proceedings of the 29th annual conference on Computer graphics and interactive techniques, pages 736–744, New York, NY, USA, 2002. ACM. ([doi:10.1145/566570.566645](#))
 - » A. J. Farnell. Marching onwards – procedural synthetic footsteps for video games and animation. In pd Convention, 2007.
 - » P. Flores, J. Ambrósio, J. Claro, and H. Lankarani. Influence of the contact-impact force model on the dynamic response of multi-body systems. Proceedings of the Institution of Mechanical Engineers-K, 220(1):21–34, 2006.
 - » P. Flores, J.C. Pimenta Claro, and H. M. Lankarani. Kinematics and Dynamics of Multibody Systems with Imperfect Joints: Models and Case Studies. Springer, 2008.
 - » F. Fontana and R. Bresin. Physics-based sound synthesis and control: crushing, walking and running by crumpling sounds. In Proc. Colloquium on Musical Informatics, pages 109–114, Florence, Italy, May 2003.
 - » G. J. Franz. [Splashes as sources of sound in liquids](#). The Journal of the Acoustical Society of America, 31(8):1080–1096, 1959.
 - » D. J. Freed. Auditory correlates of perceived mallet hardness for a set of recorded percussive events. Journal of the Acoustical Society of America, 87(1):311–322, 1990.
 - » J. Freeman and J. Lessiter. Hear, There and Everywhere: The Effects of Multichannel Audio on Presence. Proceedings of ICAD 2001, pages 231–234, 2001.
 - » P. Froehlich, R. Simon, and L. Baille. Mobile spatial interaction special issue. Personal and Ubiquitous Computing, (In press), 2008.
 - » F. Galbraith and M. Barton. [Ground loading from footsteps](#). Journal of the Acoustical Society of America, Jan 1970.
 - » W. W. Gaver. How Do We Hear in the World? Explorations in Ecological Acoustics. Ecological Psychology, 5(4):285–313, Apr. 1993.
 - » B. L. Giordano and R. Bresin. Walking and playing: what's the origin of emotional expressiveness in music? In M. Baroni, A. R. Addessi, R. Caterina, and M. Costa, editors, Proceedings of the 9th International Conference on Music Perception and Cognition (ICMPC9), Bologna, Italy, 2006.
 - » B. L. Giordano and S. McAdams. Material identification of real impact sounds: effects of size variation in steel, glass, wood and plexiglass plates. Journal of the Acoustical Society of America, 119(2):1171–1181, 2006.
 - » B. L. Giordano, S. McAdams, and D. Rocchesso. Integration of acoustical information in the perception of impacted sound sources: the role of information accuracy and exploitability. Journal of Experimental Psychology: Human Perception and Performance, Accepted for publication, 2008.
 - » B. L. Giordano, S. McAdams, Y. Visell, J. Cooperstock, H.-Y. Yao, and V. Hayward. Non-visual identification of walking

grounds. Journal of the Acoustical Society of America, 123(5):3412, 2008.

- » M. Grassi. Do we hear size or sound? Balls dropped on plates. Perception & Psychophysics, 67(2):274–284, 2005.
- » J.D. Harry, J. B. Niemi, A.A. Priplata, and J.J Collins. Balancing act. IEEE Spectrum, April 2005.
- » V. Hayward. Physically-based haptic synthesis. In Haptic Rendering: Foundations, Algorithms and Applications.
- » V. Hayward and K. Maclean. Do it yourself haptics, part I. IEEE Robotics and Automation, December 2007.
- » J. Hollerbach. Locomotion interfaces and rendering. In M. Lin and M. Otaduy, editors, Haptic Rendering: Foundations, Algorithms and Applications. A K Peters, Ltd, 2008.
- » M. M. J. Houben, A. Kohlrausch, and D. J. Hermes. Perception of the size and speed of rolling balls by sound. Speech Communication, 43:331–345, 2004.
- » M. M. J. Houben, A. Kohlrausch, and D. J. Hermes. The contribution of spectral and temporal information to the auditory perception of the size and speed of rolling balls. Acta Acustica united with Acustica, 91(6):1007–1015, 2005.
- » Olivier Houix. Categorisation auditive des sources sonores. PhD thesis, Université du Maine, France, 2003.
- » K. H. Hunt and F. R. E. Crossley. Coefficient of restitution interpreted as damping in vibroimpact. ASME J. Applied Mech., pages 440–445, June 1975.
- » H. Iwata. Haptic interface. In A. Sears and J. A. Jacko, editors, The Human-Computer Interaction Handbook. Lawrence Erlbaum Assoc., New York, 2nd edition, 2008.
- » L. A. Jones and N. B. Sarter. Tactile displays: Guidance for their design and application. Human Factors, 50(1):90–111, 2008.
- » B. Kapralos, D. Zikovitz, M. Jenkin, and L.R. Harris. Auditory cues in the perception of self-motion. 116th AES convention, 2004.
- » R. L. Klatzky, D. K. Pai, and E. P. Krotkov. Perception of material from contact sounds. Presence: Teleoperators and Virtual Environment, 9(4):399–410, 2000.
- » A. J. Kunkler-Peck and M. T. Turvey. Hearing shape. Journal of Experimental Psychology: Human Perception and Performance, 26(1):279–294, 2000.
- » G. Kuwabara and K. Kono. Restitution coefficient in a collision between two spheres. Jap. J. of Appl. Phys., 26(8):1230–1233, 1987.
- » S. Lakatos, S. McAdams, and R. Caussé. The representation of auditory source characteristics: simple geometric form. Perception & Psychophysics, 59(8):1180–1190, 1997.
- » H. M. Lankarani and P. E. Nikravesh. [A contact force model with hysteresis damping for impact analysis of multibody systems](#). Journal of Mechanical Design, 112(3):369–376, 1990. ([DOI](#))

-
- » P. Larsson, D. Västfjäll, and M. Kleiner. Perception of self-motion and presence in auditory virtual environments. Proceedings of Seventh Annual Workshop Presence, pages 252–258, 2004.
 - » M.-Y. Lee, K.-S. Soon, and C.-F. Lin. New computer protocol with subsensory stimulation and visual/auditory biofeedback for balance assessment in amputees. J. of Computers, 4(10):1005–1011, October 2009.
 - » X. Li, R. J. Logan, and R. E. Pastore. Perception of acoustic source characteristics: Walking sounds. Journal of the Acoustical Society of America, 90(6):3036–3049, 1991.
 - » R. A. Lutfi and C. J. Liu. Individual differences in source identification from synthesized impact sounds. Journal of the Acoustical Society of America, 122:1017–1028, 2007.
 - » R. A. Lutfi and E. L. Oh. Auditory discrimination of material changes in a struck clamped bar. Journal of the Acoustical Society of America, 102(6):3647–3656, 1997.
 - » R. A. Lutfi, E. Oh, E. Storm, and J. M. Alexander. Classification and identification of recorded and synthesized impact sounds by practiced listeners, musicians, and nonmusicians. Journal of the Acoustical Society of America, 118:393, 2005.
 - » R. A. Lutfi. Auditory detection of hollowness. Journal of the Acoustical Society of America, 110(2):1010–1019, 2001.
 - » R. A. Lutfi. Human sound source identification. In W. A. Yost, R. R. Fay, and A. N. Popper, editors, Auditory Perception of Sound Sources, pages 13–42. Springer, New York, NY, 2007.
 - » D. W. Marhefka and D. E. Orin. A compliant contact model with nonlinear damping for simulation of robotic systems. IEEE trans. on Systems, Man, and Cybernetics - Part A: Systems and Humans, 29(6):566–572, November 1999.
 - » S. McAdams, A. Chaigne, and V. Roussarie. The psychomechanics of simulated sound sources: Material properties of impacted bars. Journal of the Acoustical Society of America, 115(3):1306–1320, 2004.
 - » Steven L. Means and Richard M. Heitmeyer. [Low-frequency sound generation by an individual open-ocean breaking wave](#). The Journal of the Acoustical Society of America, 110(2):761–768, 2001.
 - » M. Minnaert. On musical air bubbles and the sounds of running water. Philos. Mag., 16:235–248, 1933.
 - » E.R. Miranda and M.M. Wanderley. New Digital Musical Instruments: Control And Interaction Beyond the Keyboard. AR Editions, 2006.
 - » Proc. of the 4th Intl. Mobile Music Workshop, Amsterdam, NL, May 2007.
 - » Stefano Delle Monache, Delphine Devallez, Carlo Drioli, Federico Fontana, Stefano Papetti, Pietro Polotti, and Davide Rocchesso. Sound synthesis tools for sound design. Deliverable 2.2, CLOSED project, 2008. Available at <http://closed.ircam.fr>.
 - » S.J. Morris and J.A. Paradiso. Shoe-integrated sensor system for wireless gait analysis and real-time feedback. Proceedings of the 2nd Joint IEEE EMBS (Engineering in Medicine and Biology Society) and BMES (the Biomedical Engineering Society) Conference, pages 2468–2469, 2002.
 - » M. Muller, D. Charypar, and M. Gross. Particle-based fluid simulation for interactive applications. In Proc. ACM

SIGGRAPH/Eurographics 03, pages 154–159, 2003.

» M. Müller, J. Stam, D. James, and N. Thürey. Real time physics: class notes. In SIGGRAPH '08: ACM SIGGRAPH 2008 classes, pages 1–90, New York, NY, USA, 2008. ACM. ([doi:10.1145/1401132.1401245](https://doi.org/10.1145/1401132.1401245))

» R. Nordahl. Auditory rendering of self-induced motion in virtual reality. M. Sc. project report, Dept. of Medialogy, Aalborg University–Copenhagen, 2005.

» R. Nordahl. Increasing the motion of users in photorealistic virtual environments by utilizing auditory rendering of the environment and ego-motion. Proceedings of Presence, pages 57–62, 2006.

» Jeffrey A. Nystuen, Jr. Leo H. Ostwald, and Herman Medwin. [The hydroacoustics of a raindrop impact](#). The Journal of the Acoustical Society of America, 92(2):1017–1021, 1992.

» S. O'Modhrain and G. Essl. PebbleBox and CrumbleBag: Tactile interfaces for granular synthesis. In Proc. NIME2004.

» S. O'Modhrain and G. Essl. Pebblebox and crumblebag: Tactile interfaces for granular synthesis. In Proc. NIME 2004, pages 74–79, Hamamatsu, Japan, 2004.

» S. Papetti, F. Avanzini, and D. Rocchesso. Energy and accuracy issues in numerical simulations of a non-linear impact model. In Proc. Conf. on Digital Audio Effects (DAFX-09), Como, Italy, September 2009.

» A. Papoulis. Probability, Random Variables, and Stochastic Processes. McGraw-Hill, New York, 2nd edition, 1984.

» J. Paradiso, K. Hsiao, and E. Hu. Interactive Music for Instrumented Dancing Shoes. Proc. of the 1999 International Computer Music Conference, pages 453–456, 1999.

» R. E. Pastore, J. D. Flint, J. R. Gaston, and M. J. Solomon. Auditory event perception: The source-perception loop for posture in human gait. Perception & Psychophysics, 70(1):13–29, 2008.

» A. Pelah and J. J. Koenderink. Editorial: Walking in real and virtual environments. ACM Trans. Applied Perception, 4(1), January 2007. Special issue on interactive walking.

» L. Peltola, C. Erku, P. R. Cook, and V. V. Ąlim Ąki. [Synthesis of hand clapping sounds](#). IEEE Trans. Audio, Speech and Language Proc., 15(3):1021–1029, 2007.

» M. Puckette. Pure Data. In Second Intercollege Computer Music Concerts, pages 37–41, Tachikawa, Japan, 1996. Available at url <http://www-crcs.ucsd.edu/msp/>.

» Hugh C. Pumphrey, L. A. Crum, and L. Bjorno. [Underwater sound produced by individual drop impacts and rainfall](#). The Journal of the Acoustical Society of America, 85(4):1518–1526, 1989.

» L. Pust and F. Peterka. Impact oscillator with Hertz's model of contact. Meccanica, 38(1):99–116, 2003.

» A. Quarteroni, R. Sacco, and F. Saleri. Numerical Mathematics. Springer, 2nd edition, 2007.

» M. Rath and D. Rocchesso. Continuous sonic feedback from a rolling ball. IEEE Multimedia, 12(2):60–69, 2005.

-
- » M. Rein. Phenomena of liquid drop impact on solid and liquid surfaces. *Fluid Dynamics Research*, 12(2):61–93, 1993.
 - » B. H. Repp. The sound of two hands clapping: an exploratory study. *Journal of the Acoustical Society of America*, 81(4):1100–1109, 1987.
 - » D. Rocchesso and F. Fontana, editors. *The Sounding Object*. Edizioni di Mondo Estremo, Florence, Italy, 2003.
 - » D. Rocchesso and F. Fontana, editors. *The Sounding Object*. Mondo Estremo, 2003. Available at <http://www.soundobject.org/>.
 - » D. Rocchesso and L. Ottaviani. Can one hear the volume of a shape? In *Proc. IEEE Workshop Appl. Sig. Proc. Audio and Ac.*, pages 115–118, Mohonk, NY, 2001.
 - » D. Rocchesso, R. Bresin, and M. Fernström. Sounding objects. *IEEE MultiMedia*, 10(2):42–52, 2003. ([doi:10.1109/MMUL.2003.1195160](https://doi.org/10.1109/MMUL.2003.1195160))
 - » D. Rocchesso. *Introduction to Sound Processing*. Mondo Estremo, Florence, Italy, 2003. Online available at <http://www.fags.org/docs/sp/>.
 - » L. D. Rosenblum. Perceiving articulatory events: lessons for an ecological psychoacoustics. In J. G. Neuhoff, editor, *Ecological psychoacoustics*, pages 219–248. Elsevier Academic Press, San Diego, CA, 2004.
 - » M. Vincent Roussarie. *Analyse perceptive de structures vibrantes simulées par modèle physique*. PhD thesis, Université du Maine, France, 1999.
 - » S. Sadler. *The Situationist City*. MIT Press, Cambridge, USA, 1998.
 - » R.D. Sanders and M.A. Scorgie. The Effect of Sound Delivery Methods on a User's Sense of Presence in a Virtual Environment, 2002.
 - » J. P. Sethna, K. A. Dahmen, and C. R. Myers. Crackling noise. *Nature*, (410):242–250, March 2001.
 - » C. N. J. Stoelinga. A psychomechanical study of rolling sounds. PhD thesis, Eindhoven University of Technology, 2007.
 - » R. L. Storms and M. J. Zyda. Interactions in Perceived Quality of Auditory-Visual Displays. *Presence: Teleoperators & Virtual Environments*, 9(6):557–580, 2000.
 - » A. Stulov. Dynamic behavior and mechanical features of wool felt. *Acta Mechanica*, 169(1):13–21, 2004.
 - » S. Turner, P. Turner, F. Carroll, S. O'Neill, D. Benyon, R. McCall, and M. Smyth. Re-creating the Botanicals: towards a sense of place in virtual environments. *Environmental Science Conference*, 2003.
 - » A. V. Åljamäe, P. Larsson, D. V. Åstfjäll, and M. Kleiner. Travelling without moving: Auditory scene cues for translational self-motion. *Proceedings of ICAD 2005*, 2005.
 - » K. van den Doel, P. Kry, and K. Pai. Foleyautomatic: Physically-based sound effects for interactive simulation and animation. In *Proc. ACM SIGGRAPH 01*, pages 537–544, 2001.

- » K. van den Doel, P.G. Kry, and D.K. Pai. FoleyAutomatic: physically-based sound effects for interactive simulation and animation. Proceedings of the 28th annual conference on Computer graphics and interactive techniques, pages 537–544, 2001.
- » K. van den Doel. Physically-based models for liquid sounds. ACM Transactions on Applied Perception, 2(4):534–546, 2005.
- » D. Västfjäll. The Subjective Sense of Presence, Emotion Recognition, and Experienced Emotions in Auditory Virtual Environments. CyberPsychology & Behavior, 6(2):181–188, 2003.
- » L. Verlet. Computer "Experiments" on Classical Fluids. I. Thermodynamical Properties of Lennard-Jones Molecules. Physical Review, 159(1):98+, July 1967.
- » Y. Visell, J. Cooperstock, and K. Franinovic. The ecotile: An architectural platform for audio-haptic simulation in walking. In Proc. of the 4th Intl. Conf. on Enactive Interfaces, 2007.
- » Y. Visell, J. Cooperstock, B. L. Giordano, K. Franinovic, A. Law, S. McAdams, K. Jathal, and F. Fontana. A vibrotactile device for display of virtual ground materials in walking. In Proc. of Eurohaptics 2008, 2008.
- » L. Vu-Quoc and X. Zhang. An elastoplastic contact force-displacement model in the normal direction: displacement-driven version. Proceedings: Mathematical, Physical and Engineering Sciences, pages 4013–4044, 1999.
- » W. H. Warren and R. R. Verbrugge. Auditory perception of breaking and bouncing events: a case study in ecological acoustics. Journal of Experimental Psychology: Human Perception and Performance, 10(5):704–712, 1984.
- » B. G. Watters. Impact noise characteristics of female hard-heeled foot traffic. J. Acoust. Soc. Am., 37:619–630, 1965.
- » G. Wu and J. H. Chiang. The effects of surface compliance on foot pressure in stance. Gait & Posture, 4(2):122–129, 1996.
- » Y. Dobashi, T. Yamamoto, and T. Nishita. Real-time rendering of aerodynamic sound using sound textures based on computational fluid dynamics. ACM Trans. on Graphics, 22(3 (Proc. SIGGRAPH2003)):732–740, 2003.