

Bibliography

- Aho, M. (2016). *The Tangible in Music: The Tactile Learning of a Musical Instrument*. SEMPRES Studies in the Psychology of Music. Abingdon, UK: Routledge.
- Ahrens, C., and I. Zedlacher (1996). Technological Innovations in Nineteenth-Century Instrument Making and Their Consequences. *The Musical Quarterly* 80(2), 332–340.
- Alarcón Díaz, X., and A. R. Jensenius (2019). “Ellos no están entendiendo nada” [“They are not understanding anything”]: Embodied remembering as complex narrative in a Telematic Sonic Improvisation. In *Proceedings of RE:SOUND*. BCS Learning & Development.
- Alarcón Díaz, X., P. Boddie, C. Erdem, E. Aandahl, E. S. Andersen, E. Dahl, M. Lesteberg, and A. R. Jensenius (2019). Sensing Place and Presence in an INTIMAL Long-Distance Improvisation. *Journal of Network Music and Arts* 1(1), 1–22.
- Aly, L., H. Silva, G. Bernardes, and R. Penha (2021). Appropriating Biosensors as Embodied Control Structures in Interactive Music Systems. *Human Technology* 17(1), 45–80.
- Ansdell, G. (2014). *How Music Helps in Music Therapy and Everyday Life*. New York: Routledge.
- Applebaum, S., and T. Lindsay (1986). *The Art and Science of String Performance*. Van Nuys, CA: Alfred Music.
- Askenfelt, A., and E. V. Jansson (1990). From touch to string vibrations. I: Timing in the grand piano action. *The Journal of the Acoustical Society of America* 88(1), 52–63.
- Association, T. M. (2020). MIDI 2.0 Specifications. Technical report, The MIDI Association.
- Association, T. M. (2018). MIDI Polyphonic Expression Version 1.0. Technical report, The MIDI Association.
- Association, T. M. (2020b). Common Rules for MIDI-CI Profiles, Version 1.0. Technical report, The MIDI Association.
- Baalman, M. (2022). *Just a Question of Mapping*. Rotterdam: V2_.

- Baldwin, A., T. Hammer, E. Pechiulis, P. Williams, D. Overholt, and S. Serafin (2016). Tromba Moderna: A Digitally Augmented Medieval Instrument. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Volume 16 of 2220-4806, Brisbane, Australia, pp. 14–19. Queensland Conservatorium Griffith University.
- Barbosa, J. (2019). “Direct Manipulation for Musical Interfaces Based on Visual Software: Design and Evaluation.” PhD diss., McGill University.
- Barlindhaug, G. (2019). “The Kids Want Noise - How Sonic Mediations Change the Aesthetics of Music.” PhD diss., UiT The Arctic University of Norway.
- Barry, B. R. (1990). *Musical Time: The Sense of Order*. Stuyvesant, NY: Pendragon Press.
- Bartók, B. (1976). Mechanical Music. In *Béla Bartók Essays - Selected and Edited by Benjamin Suchoff*. London: Faber & Faber.
- Bates (2012). The Social Life of Musical Instruments. *Ethnomusicology* 56(3), 363.
- Bell, A. P. (2018). *Dawn of the DAW: The Studio as Musical Instrument*. New York: Oxford University Press.
- Berdahl, E., and A. Kontogeorgakopoulos (2013). The FireFader: Simple, Open-Source, and Reconfigurable Haptic Force Feedback for Musicians. *Computer Music Journal* 37(1), 23–34.
- Berdahl, E., and W. Ju (2011). Satellite CCRMA: A Musical Interaction and Sound Synthesis Platform. In A. R. Jensenius, A. Tveit, R. I. Godoy, and D. Overholt (Eds.), *Proceedings of the International Conference on New Interfaces for Musical Expression*, Oslo, Norway, pp. 173–178.
- Bevilacqua, F., and R. Muller (2005). A gesture follower for performing arts. In *Proceedings of the International Gesture Workshop*.
- Bielawski, L. (1979). Instrumentalmusik als Transformation der menschlichen Bewegung. Mensch-Instrument-Musik. *Studia instrumentorum musicae popularis* 6, 27–33.
- Bijker, W. E. (1997). *Of Bicycles, Bakelites, and Bulbs: Toward a Theory of Sociotechnical Change*. Cambridge, MA: MIT Press.
- Birnbaum, D., R. Fiebrink, J. Malloch, and M. M. Wanderley (2005). Towards a Dimension Space for Musical Artifacts. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Vancouver, pp. 192–195.
- Bishop, G., G. Welch, and B. D. Allen (2001). Tracking: Beyond 15 minutes of thought. In *SIGGRAPH Course 11*, Los Angeles, pp. 6–11.
- Bishop, L., and A. R. Jensenius (2020). Reliability of two IR Motion Capture Systems in a Music Performance Setting. In *Proceedings of the Sound and Music Computing Conference*, Torino, Italy, pp. 47–53.
- Bishop, L., V. Gonzalez Sanchez, B. Laeng, A. R. Jensenius, and S. Høffding (2021). Move like Everyone is Watching: Social Context Affects Head Motion

- and Gaze in String Quartet Performance. *Journal of New Music Research* 50(4), 392–412.
- Björkvold, J.-R. (1992). *The Muse Within*. New York: HarperCollins.
- Bjørn, K., and C. Meyer (2018). *Patch & Tweak - Exploring Modular Synthesis*. Copenhagen: Bjooks.
- Boethius, A. M. S. (1989). *Fundamentals of Music: Anicius Manlius Severinus Boethius*. New Haven, CT: Yale University Press.
- Bongers, B. (2000). Physical Interfaces in the Electronic Arts : Interaction Theory and Interfacing Techniques for Real-time Performance. In M. M. Wanderley and M. Battier (Eds.), *Trends in Gestural Control of Music*, pp. 41–70. Paris: IRCAM – Centre Pompidou.
- Borgdorff, H. (2012). *The Conflict of the Faculties - Perspectives on Artistic Research and Academia*. Leiden, Netherlands: Leiden University Press.
- Born, G., and K. Devine (2015). Music Technology, Gender, and Class: Digitization, Educational and Social Change in Britain. *Twentieth-Century Music* 12(02), 135–172.
- Boulanger, R. C. (Ed.) (2000). *The Csound Book: Perspectives in Software Synthesis, Sound Design, Signal Processing, and Programming*. Cambridge, MA: MIT Press.
- Boulanger, R. C., and V. Lazzarini (Eds.) (2011). *The Audio Programming Book*. Cambridge, MA: MIT Press.
- Bovermann, T., A. de Campo, H. Egermann, S.-I. Hardjowirogo, and S. Weinzierl (Eds.) (2017). *Musical Instruments in the 21st Century*. Singapore: Springer Singapore.
- Bowers, Q. D. (1972). *Encyclopedia of Automatic Musical Instruments*. Vestal, NY: Vestal Press.
- Braasch, J. (2009). The Telematic Music System: Affordances for a New Instrument to Shape the Music of Tomorrow. *Contemporary Music Review* 28(4-5), 421–432.
- Brandenburg, K. (1999). MP3 and AAC Explained. In *AES 17th International Conference on High Quality Audio Encoding*.
- Brandtsegg, Ø. (2022). Towards a pitch map for vibrotactile feedback instruments. *Echo* Vol. 3.
- Brandtsegg, Ø., T. Engum, and B. I. Wærstad (2018). Working methods and instrument design for cross-adaptive sessions. In T. M. Luke Dahl, and Douglas Bowman (Eds.), *Proceedings of the International Conference on New Interfaces for Musical Expression*, Blacksburg, VA, pp. 1–6. Virginia Tech.
- Bregman, A. S. (1994). *Auditory Scene Analysis*. Cambridge, MA: MIT Press.
- Briot, J.-P., G. Hadjeres, and F.-D. Pachet (2019). *Deep Learning Techniques for Music Generation*. Cham, Switzerland: Springer.
- Brøvig-Hanssen, R. (2018). Listening to or Through Technology: Opaque and Transparent Mediation. In S. Bennett and E. Bates (Eds.), *Critical Approaches*

- to the Production of Music and Sound, pp. 195–210. New York: Bloomsbury Academic.
- Brøvig-Hanssen, R., and A. Danielsen (2016). *Digital Signatures: The Impact of Digitization on Popular Music Sound*. Cambridge, MA: MIT Press.
- Browman, C. P., and L. Goldstein (1989). Articulatory gestures as phonological units. *Phonology* 6(02), 201–251.
- Brown, A. R. (2012). *Computers in Music Education: Amplifying Musicality*. New York: Routledge.
- Brown, H. M. (2001). Instrument. *Grove Music Online*.
- Bryant, D. (2018). Cori spezzati in Composition and Sound. In K. Schiltz (Ed.), *A Companion to Music in Sixteenth-Century Venice*, pp. 371–394. Leiden, Netherlands: Brill.
- Burgess, R. J. (2013). *The Art of Music Production: The Theory and Practice*. New York: Oxford University Press.
- Burgess, R. J. (2014). *The History of Music Production*. New York: Oxford University Press.
- Bush, D., and R. Kassel (Eds.) (2004). *The Organ: An Encyclopedia*. New York: Routledge.
- Butler, M. J. (2014). *Playing with Something That Runs: Technology*. New York: Oxford Scholarship Online.
- Buxton, W. (1986). Chunking and Phrasing and the Design of Human-Computer Dialogues. In H.-J. Kugler (Ed.), *Information Processing*, pp. 494–499. North-Holland Elsevier Science Publishers.
- Bye, M. (2018). *MIDI Polyphonic Expression: A Bridge Between Acoustic and Electronic Instrument Experience?* Master's thesis, Universitetet i Oslo.
- Cabe, P. A., and J. B. Pittenger (2000). Human sensitivity to acoustic information from vessel filling. *Journal of experimental psychology: Human Perception and Performance* 26(1), 313.
- Cáceres, J.-P., and C. Chafe (2010). JackTrip: Under the hood of an engine for network audio. *Journal of New Music Research* 39(3), 183–187.
- Cadoz, C. (1988). Instrumental gesture and musical composition. In *International Computer Music Conference*, pp. 1–12. Cologne, Germany: International Computer Music Association.
- Cadoz, C., A. Luciani, J.-I. Florens, C. Roads, and F. Chadabe (1984). Responsive input devices and sound synthesis by stimulation of instrumental mechanisms: The cordis system. *Computer music journal* 8(3), 60–73.
- Cadoz, C., and M. M. Wanderley (2000). Gesture-music. In M. M. Wanderley and M. Battier (Eds.), *Trends in Gestural Control of Music*, Volume 12, pp. 71–94. Paris: IRCAM.
- Cage, J. (1961). *Silence: Lectures and Writings*. Middletown, CT: Wesleyan University Press.
- Campbell, L., and M. Wanderley (2005). The Observation of Movement. MUMT 609 report, McGill University.

- Camurri, A., B. Mazzarino, and G. Volpe (2005). A tool for analysis of expressive gestures: The EyesWeb Expressive Gesture Processing Library. *Ret* 18(2).
- Cance, C. (2017). From Musical Instruments as Ontological Entities to Instrumental Quality: A Linguistic Exploration of Musical Instrumentality in the Digital Era. In *Musical Instruments in the 21st Century*, pp. 25–43. Singapore: Springer.
- Carello, C., K. L. Anderson, and A. J. Kunkler-Peck (1998). Perception of object length by sound. *Psychological science* 9(3), 211–214.
- Carelman, J. (1969). *Catalogue d'objets introuvables*. A. Paris: Balland.
- Carr, I. (1992). *Keith Jarrett: The Man And His Music*. Cambridge, MA: Da Capo Press.
- Chadabe, J. (1997). *Electric Sound: The Past and Promise of Electronic Music*. Upper Saddle River, NJ: Prentice Hall.
- Chaigne, A., and J. Kergomard (2016). *Acoustics of Musical Instruments*. New York: Springer.
- Chapman, J. (2015). *Emotionally Durable Design: Objects, Experiences and Empathy*. Oxon: Routledge.
- Clark Estes, A. (2018). The First Great iPhone App Grows Up. *Gizmodo* 3(16).
- Clarke, E. F. (2005). *Ways of Listening: An Ecological Approach to the Perception of Musical Meaning*. Oxford: Oxford University Press.
- Clarke, E. F., and J. W. Davidson (1998). The Body in Performance. In *Composition-Performance Reception*, pp. 74–92. Aldershot, UK: Ashgate.
- Clarke, E. F., and N. Cook (Eds.) (2004). *Empirical Musicology: Aims, Methods, Prospects*. New York: Oxford University Press.
- Clayton, M., K. Jakubowski, T. Eerola, P. E. Keller, A. Camurri, G. Volpe, and P. Alborn (2020). Interpersonal Entrainment in Music Performance: Theory, Method, and Model. *Music Perception* 38(2), 136–194.
- Clayton, M., R. Sager, and U. Will (2005). In time with the music: The concept of entrainment and its significance for ethnomusicology. In *European Meetings in Ethnomusicology*, Volume 1, pp. 3–75. Bucharest: Romanian Society for Ethnomusicology.
- Clynes, M. (Ed.) (1982). *Music, Mind, and Brain: The Neuropsychology of Music*. New York: Springer Science & Business Media.
- Collins, N. (2006). *Handmade Electronic Music: The Art of Hardware Hacking*. New York: Routledge.
- Collins, N. (2009). *Handmade Electronic Music: The Art of Hardware Hacking* (Second ed.). New York: Routledge.
- Collins, N. (2020). *Handmade Electronic Music: The Art of Hardware Hacking* (Third ed.). New York: Routledge.
- Collins, N., A. McLean, J. Rohrhuber, and A. Ward (2003). Live coding in laptop performance. *Organised Sound* 8(3), 321–330.
- Collins, N., and J. d'Escriván (2007). *The Cambridge Companion to Electronic Music*. Cambridge: Cambridge University Press.

Cook, P. R. (Ed.) (1999). *Music, Cognition, and Computerized Sound : An Introduction to Psychoacoustics*. Cambridge, MA: MIT Press.

Cook, P. R. (2001). Principles for Designing Computer Music Controllers. In I. Poupyrev, M. J. Lyons, S. S. Fels, and T. Blaine (Eds.), *Proceedings of the International Conference on New Interfaces for Musical Expression*, Seattle, pp. 3–6.

Cook, P. R. (2002). *Real Sound Synthesis for Interactive Applications*. Natick, MA: A K Peters.

Cooper, F., A. Liberman, and J. Borst (1951). The interconversion of audible and visible patterns as a basis for research in the perception of speech. *Proceedings of the National Academy of Sciences of the United States of America* 37(5), 318.

Cox, A. (2016). *Music and Embodied Cognition: Listening, Moving, Feeling, and Thinking*. Bloomington, IN: Indiana University Press.

Crawford, L., and W. D. Fastenow (2009). The Midi-AirGuitar , A serious Musical Controller with a Funny Name. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Pittsburgh, pp. 149–150.

Crowther, P. (2005). *Design For Disassembly Themes And Principles*. Melbourne: Royal Australian Institute of Architects, 1–7.

Dahl, S., and R. Bresin (2001). Is the player more influenced by the auditory than the tactile feedback from the instrument. In *Proc. of the COST-G6 Workshop on Digital Audio Effects (Dafx-01)*, Limerick, Ireland, pp. 194–197.

Dahlstedt, P. (2001). A MutaSynth in parameter space: Interactive composition through evolution. *Organised Sound* 6(02), 121–124.

Dahlstedt, P. (2017). Physical Interactions with Digital Strings - A hybrid approach to a digital keyboard instrument. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Copenhagen, pp. 115–120. Aalborg University Copenhagen.

Dainton, B. (2018). Temporal Consciousness. In E. N. Zalta (Ed.), *The Stanford Encyclopedia of Philosophy* (Winter 2018 ed.). Metaphysics Research Lab, Stanford University.

Danielsen, A., and I. Helseth (2016). Mediated Immediacy: The Relationship between Auditory and Visual Dimensions of Live Performance in Contemporary Technology-Based Popular Music. *Rock Music Studies* 3(1), 24–40.

Danielsen, A., K. Nymoén, E. Anderson, G. S. Câmara, M. T. Langerød, M. R. Thompson, and J. London (2019). Where is the beat in that note? Effects of attack, duration, and frequency on the perceived timing of musical and quasi-musical sounds. *Journal of Experimental Psychology: Human Perception and Performance* 45(3), 402–418.

Danielsen, A., M. R. Haugen, and A. R. Jensenius (2015). Moving to the Beat: Studying Entrainment to Micro-Rhythmic Changes in Pulse by Motion Capture. *Timing and Time Perception* 3, 133–154.

Dannenberg, R. B. (2018). Languages for Computer Music. *Frontiers in Digital Humanities* 5.

- Dannenberg, R. B., and Z. Chi (2016). O2: Rethinking Open Sound Control. In *Proceedings of the International Computer Music Conference*, Utrecht, Netherlands, pp. 4.
- Davidson, J. W., and J. S. Correia (2002). Body Movement. In R. Parncutt and G. E. McPherson (Eds.), *The Science and Psychology of Music Performance, Creative Strategies for Teaching and Learning*, pp. 237–250. New York: Oxford University Press.
- de Haan, S., E. Rietveld, M. Stokhof, and D. Denys (2013). The phenomenology of deep brain stimulation-induced changes in OCD: An enactive affordance-based model. *Frontiers in Human Neuroscience* 7.
- de Quay, Y., S. Skogstad, and A. R. Jensenius (2011). Dance Jockey: Performing Electronic Music by Dancing. *Leonardo Music Journal* 21, 11–12.
- De Souza, J. (2017). *Music at Hand: Instruments, Bodies, and Cognition*. Oxford Studies in Music Theory. New York: Oxford University Press.
- Dean, R. T., and A. McLean (Eds.) (2018). *The Oxford Handbook of Algorithmic Music*. Oxford: Oxford University Press.
- Delalande, F. (1988). La gestique de Gould: éléments pour une sémiologie du geste musical. In G. Guertin (Ed.), *Glenn Gould Pluriel*, pp. 85–111. Verdun, Quebec: Louise Courteau.
- DeNora, T. (1995). *Beethoven and the Construction of Genius*. Berkeley: University of California Press.
- DeNora, T. (2000). *Music in Everyday Life*. Cambridge, UK: Cambridge University Press.
- Devine, K. (2019). *Decomposed*. Cambridge, MA: MIT Press.
- Dobrian, C., and D. Koppelman (2006). The E in NIME: Musical Expression with New Computer Interfaces. In N. Schnell, F. Bevilacqua, M. Lyons, and A. Tanaka (Eds.), *Proceedings of the International Conference on New Interfaces for Musical Expression*, Paris, pp. 277–282.
- Dobrian, C., and F. Bevilacqua (2003). Gestural Control of Music Using the Vicon 8 Motion Capture System. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Montreal, pp. 161–163.
- Donnarumma, M. (2016). *Configuring Corporeality: Performing Bodies, Vibrations and New Musical Instruments*. PhD diss., Goldsmiths, University of London.
- Dourish, P. (2001). *Where the Action Is: The Foundations of Embodied Interaction*. Cambridge, MA: MIT Press.
- Drioli, C., C. Allocchio, and N. Buso (2013). Networked performances and natural interaction via LOLA: Low latency high quality A/V streaming system. In *International Conference on Information Technologies for Performing Arts, Media Access, and Entertainment*, pp. 240–250. Springer.
- Dudas, R. (2010). “Comprovisation”: The Various Facets of Composed Improvisation within Interactive Performance Systems. *Leonardo Music Journal* 20, 29–31.

- Eager, D., A.-M. Pendrill, and N. Reistad (2016). Beyond velocity and acceleration: Jerk, snap and higher derivatives. *European Journal of Physics* 37(6), 065008.
- Edelman, G. M. (1987). *Neural Darwinism: The Theory of Neuronal Group Selection*. New York: Basic Books.
- Eidsheim, N. S. (2017). Maria Callas's Waistline and the Organology of Voice. *The Opera Quarterly* 33(3-4), 249–268.
- Eldridge, A., and C. Kiefer (2017). Self-resonating Feedback Cello: Interfacing gestural and generative processes in improvised performance. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Copenhagen, pp. 25–29. Aalborg University Copenhagen.
- Ellerbrock, P. J., R. L. Grant, D. W. Konz, and J. P. Winkelmann (2004). Network device interface for digitally interfacing data channels to a controller via a network. US Patent US7552256B2.
- Emerson, G., and H. Egermann (2018). Gesture-sound causality from the audience's perspective: Investigating the aesthetic experience of performances with digital musical instruments. *Psychology of Aesthetics, Creativity, and the Arts* 12(1), 96–109.
- Enders, B. (2017). From Idiophone to Touchpad. The Technological Development to the Virtual Musical Instrument. In *Musical Instruments in the 21st Century*, pp. 45–58. Singapore: Springer.
- Eno, B., and P. Chilvers (2008). Bloom. GenerativeMusic.com.
- Erdem, Ç., Q. Lan, and A. R. Jensenius (2020). Exploring relationships between effort, motion, and sound in new musical instruments. *Human Technology: An Interdisciplinary Journal on Humans in ICT Environments* 16(3), 310–347.
- Erdem, C., Q. Lan, J. Fuhrer, C. Martin, J. Tørresen, and A. R. Jensenius (2020). Towards Playing in the “Air”: Modeling Motion–Sound Energy Relationships in Electric Guitar Performance Using Deep Neural Networks. In *Proceedings of the Sound and Music Computing Conference*. Birmingham, UK, pp. 177–183.
- Essl, G. (2003). On gender in new music interface technology. *Organised Sound* 8(1), 19–30.
- Evans, B. (2005). Foundations of a visual music. *Computer Music Journal* 29(4), 11–24.
- Ewell, P. A. (2020). Music Theory and the White Racial Frame. *Music Theory Online* 26(2).
- Fagereng, R. (2008). *Levende Elektronikk: En Studie Av Eivind Aarsets Bruk Av Gitar Og Elektronikk i Konsertsammenheng*. MA thesis, University of Oslo.
- Favilla, S., J. Cannon, and G. Greenwood (2005). The Bent Leather Band Ensemble: Children of Grainger. In *Sound Scripts: Proceedings of the Inaugural Totally Huge New Musical Festival Conference*. Perth: Edith Cowan University.
- Fels, S. S., and F. Vogt (2002). Tooka: Explorations of Two Person Instruments. In C. Casey, K. Schneider, and E. Hammond (Eds.), *Proceedings of the International Conference on New Interfaces for Musical Expression*, Dublin, pp. 50–55.

- Fiebrink, R., D. Trueman, and P. R. Cook (2011). The Wekinator: Software for using machine learning to build real-time interactive systems. <http://code.google.com/p/wekinator/>. Accessed June 8, 2022.
- Fiebrink, R., G. Wang, and P. R. Cook (2007). Don't Forget the Laptop: Using Native Input Capabilities for Expressive Musical Control. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, New York, pp. 164–167.
- Fiebrink, R., and L. Sonami (2020). Reflections on eight years of instrument creation with machine learning. In R. Michon and F. Schroeder (Eds.), *Proceedings of the International Conference on New Interfaces for Musical Expression*, Birmingham, UK, pp. 281–285. Birmingham City University.
- Fiebrink, R., and P. R. Cook (2010). The Wekinator: A system for real-time, interactive machine learning in music. In *Proceedings of The International Society for Music Information Retrieval Conference*, Utrecht, Netherlands.
- Fortuin, H. (1995). The Clavette: A Generalized Microtonal MIDI Keyboard Controller. In *Proceedings of the International Computer Music Conference*. Banff, Canada.
- Freed, A. (2012). The Fingerphone: A Case Study of Sustainable Instrument Redesign. In G. Essl, B. Gillespie, M. Gurevich, and S. O'Modhrain (Eds.), *Proceedings of the International Conference on New Interfaces for Musical Expression*, Ann Arbor, MI. University of Michigan.
- Freed, D. J. (1990). Auditory correlates of perceived mallet hardness for a set of recorded percussive sound events. *The Journal of the Acoustical Society of America* 87(1), 311–322.
- Frid, E. (2019). *Diverse Sounds : Enabling Inclusive Sonic Interaction*. PhD diss., KTH Royal Institute of Technology, Stockholm.
- Frisk, H. (2008). *Improvisation, Computers and Interaction Rethinking Human-Computer Interaction Through Music*. PhD diss., Malmö Academy of Music.
- Frith, S., and S. Zagorski-Thomas (Eds.) (2012). *The Art of Record Production: An Introductory Reader for a New Academic Field*. Oxon: Routledge.
- Fritz, C., J. Curtin, J. Poitevineau, and F.-C. Tao (2017). Listener evaluations of new and Old Italian violins. *Proceedings of the National Academy of Sciences* 114(21), 5395–5400.
- Fritz, C., J. Curtin, J. Poitevineau, P. Morrel-Samuels, and F.-C. Tao (2012). Player preferences among new and old violins. *Proceedings of the National Academy of Sciences* 109(3), 760–763.
- Gadir, T. (2017). Forty-Seven DJs, Four Women: Meritocracy, Talent, and Post-feminist Politics. *Dancecult* 9(1).
- Gallese, V., L. Fadiga, L. Fogassi, and G. Rizzolatti (1996). Action recognition in the premotor cortex. *Brain* 119(2), 593–609.
- Gang Qian, Feng Guo, T. Ingalls, L. Olson, J. James, and T. Rikakis (2004). A gesture-driven multimodal interactive dance system. In *2004 IEEE International*

Conference on Multimedia and Expo (ICME) (IEEE Cat. No.04TH8763), Taipei, Taiwan, pp. 1579–1582. IEEE.

Gaver, W. W. (1993a). How do we hear in the world? Explorations in ecological acoustics. *Ecological psychology* 5(4), 285–313.

Gaver, W. W. (1993b). What in the world do we hear? An ecological approach to auditory event perception. *Ecological psychology* 5(1), 1–29.

Gibet, S. (1987). *Codage, Representation et Traitement Du Geste Instrumental: Application a La Synthèse de Sons Musicaux Par Simulation de Mécanismes Instrumentaux*. PhD diss., L'Institut National Polytechnique de Grenoble.

Gibson, J. J. (1977). The theory of affordances. In R. Shaw and J. Bransford (Eds.), *Perceiving, Acting, and Knowing: Toward an Ecological Psychology*, pp. 67–82. Hillsdale, NJ: Erlbaum.

Gibson, J. J. (1979). *The Ecological Approach to Visual Perception*. New York: Houghton-Mifflin.

Giordano, B. L., and S. McAdams (2006). Material identification of real impact sounds: Effects of size variation in steel, glass, wood, and plexiglass plates. *The Journal of the Acoustical Society of America* 119(2), 1171.

Godøy, R. I. (2001). Imagined Action, Excitation, and Resonance. In R. I. Godøy and H. Jørgensen (Eds.), *Musical Imagery*, pp. 237–250. Lisse, Netherlands: Swets and Zeitlinger.

Godøy, R. I. (2003). Motor-Mimetic Music Cognition. *Leonardo* 36(4), 317–319.

Godøy, R. I. (2006). Gestural-Sonorous Objects: Embodied extensions of Schaefer's conceptual apparatus. *Organised Sound* 11(02), 149.

Godøy, R. I. (2008). Reflections on Chunking in Music. In A. Schneider (Ed.), *Systematic and Comparative Musicology: Concepts, Methods, Findings. Hamburger Jahrbuch Für Musikwissenschaft*, Volume 24, pp. 117–132. Vienna: Peter Lang.

Godøy, R. I. (2014). Understanding Coarticulation in Musical Experience. In M. Aramaki, O. Derrien, R. Kronland-Martinet, and S. Ystad (Eds.), *Sound, Music, and Motion*, Volume 8905, pp. 535–547. Cham, Switzerland: Springer.

Godøy, R. I., E. Haga, and A. R. Jensenius (2006a). Exploring Music-Related Gestures by Sound-Tracing - A Preliminary Study. In K. Ng (Ed.), *Proceedings of the COST287-ConGAS 2nd International Symposium on Gesture Interfaces for Multimedia Systems*, Leeds, UK, pp. 27–33.

Godøy, R. I., E. Haga, and A. R. Jensenius (2006b). Playing "air instruments": Mimicry of sound-producing gestures by novices and experts. In *Gesture in Human-Computer Interaction and Simulation*, pp. 256–267. Berlin: Springer.

Godøy, R. I., and H. Jørgensen (2001). *Musical Imagery*. New York: Taylor & Francis.

Goehr, L. (1992). *The Imaginary Museum of Musical Works : An Essay in the Philosophy of Music: An Essay in the Philosophy of Music*. Oxford: Clarendon Press.

- González Sánchez, V., A. Zelechowska, and A. R. Jensenius (2018). Correspondences Between Music and Involuntary Human Micromotion During Standstill. *Frontiers in Psychology* 9(1382).
- González Sánchez, V., A. Zelechowska, and A. R. Jensenius (2019). Analysis of the Movement-Inducing Effects of Music through the Fractality of Head Sway during Standstill. *Journal of Motor Behavior* 52(6), 734–749.
- González Sánchez, V. E., C. P. Martin, A. Zelechowska, K. A. V. Bjerkestrand, V. Johnson, and A. R. Jensenius (2018). Bela-Based Augmented Acoustic Guitars for Sonic Microinteraction. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Blacksburg, VA, pp. 324–327. Virginia Tech.
- Green, O. (2011). Agility and Playfulness: Technology and Skill in the Performance Ecosystem. *Organised Sound* 16(2), 134–44.
- Grier, J. (2021). *Musical Notation in the West*. Cambridge: Cambridge University Press.
- Grimshaw-Aagaard, M., M. Walther-Hansen, and M. Knakkegaard (2019). *The Oxford Handbook of Sound and Imagination*, Volume 2. New York: Oxford University Press.
- Gritten, A., and E. King (Eds.) (2006). *Music and Gesture*. Hampshire, UK: Ashgate.
- Gritten, A., and E. King (Eds.) (2011). *New Perspectives on Music and Gesture*. Hampshire, UK: Ashgate.
- Guettler, K. (2002). *The Bowed String: On the Development of Helmholtz Motion and on the Creation of Anomalous Low Frequencies*. PhD diss., KTH Royal Institute of Technology, Stockholm.
- Haga, E. (2008). *Correspondences between Music and Body Movement*. PhD diss., University of Oslo.
- Haken, L., E. Tellman, and P. Wolfe (1998). An Indiscrete Music Keyboard. *Computer Music Journal* 22(1), 30.
- Hansen, K. F. (2010). *The Acoustics and Performance of DJ Scratching – Analysis and Modeling*. PhD diss., KTH Royal Institute of Technology, Stockholm.
- Hardcastle, W. J., and N. Hewlett (Eds.) (1999). *Coarticulation: Theory, Data, and Techniques*. Cambridge: Cambridge University Press.
- Harper, A. (2011). *Infinite Music: Imagining the Next Millennium of Human Music-Making*. Winchester, UK: John Hunt Publishing.
- Hasse, S. (2012). I am Sitting in a Room. *Body, Space & Technology* 11(0).
- Hatten, R. S. (2004). *Interpreting Musical Gestures, Topics, and Tropes: Mozart, Beethoven, Schubert*. Bloomington, IN: Indiana University Press.
- Hauelsen, J., and T. R. Knösche (2001). Involuntary motor activity in pianists evoked by music perception. *Journal of cognitive neuroscience* 13(6), 786–792.

- Haugen, M. R. (2016). *Music-Dance. Investigating Rhythm Structures in Brazilian Samba and Norwegian Telespringar Performance*. Phd diss., University of Oslo.
- Haynes, B. (2002). *A History of Performing Pitch: The Story of "A"*. Lanham, MD: Scarecrow Press.
- Hazas, M., and L. Nathan (2017). *Digital Technology and Sustainability: Engaging the Paradox*. Oxon: Routledge.
- Heller, F., I. M. C. Ruiz, and J. Borchers (2017). An Augmented Flute for Beginners. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Copenhagen, pp. 34–37. Aalborg University Copenhagen.
- Heyde, H. (1975). *Grundlagen des natürlichen Systems der Musikinstrumente*. Leipzig, Germany: VEB Deutscher Verlag für Musik.
- Hickok, G., B. Buchsbaum, C. Humphries, and T. Muftuler (2003). Auditory-motor interaction revealed by fMRI: Speech, music, and working memory in area Spt. *Journal of Cognitive Neuroscience* 15(5), 673–682.
- Holland, S., T. Mudd, K. Wilkie-McKenna, A. McPherson, and M. M. Wanderley (2019). *New Directions in Music and Human-Computer Interaction*. Cham, Switzerland: Springer.
- Holmes, T. (2002). *Electronic and Experimental Music: Pioneers in Technology and Composition* (Second ed.). New York: Routledge.
- Holmes, T. (2012). *Electronic and Experimental Music: Technology, Music, and Culture* (Fourth ed.). New York: Routledge.
- Holmes, T. (2016). *Electronic and Experimental Music: Technology, Music, and Culture* (Fifth ed.). New York: Routledge.
- Holopainen, R. (2012). *Self-Organised Sound with Autonomous Instruments: Aesthetics and Experiments*. PhD diss., University of Oslo.
- Howard, D. M., and J. A. S. Angus (2007). *Acoustics and Psychoacoustics* (Third ed.). Oxford: Focal Press.
- Hunt, A., and M. M. Wanderley (2002). Mapping performer parameters to synthesis engines. *Organised Sound* 7(2), 97–108.
- Hunt, A., M. M. Wanderley, and M. Paradis (2003). The importance of parameter mapping in electronic instrument design. *Journal of New Music Research* 32(4), 429–440.
- Hurley, S. (1998). *Consciousness in Action*. Cambridge, MA: Harvard University Press.
- Husserl, E. (1991). *On the Phenomenology of the Consciousness of Internal Time (1893–1917)*. Dordrecht, Netherlands: Kluwer Academic Publishers.
- Huston, R. (2008). *Principles of Biomechanics*. Boca Raton, FL: CRC Press.
- Iñesta, J. M., D. C. Conklin, R. Ramírez-Melendez, and T. M. Fiore (2018). *Machine Learning and Music Generation*. Oxon: Routledge.

- Jack, R., J. Harrison, and A. McPherson (2020). Digital musical instruments as research products. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Birmingham, UK, pp. 530–536.
- Jacob, S. (2019). *Acousmatic Experience and Musical Movement: A Pluralistic Conception*. PhD diss., Durham University.
- Jarrett, K. (1991). *The Köln Concert*. Mainz, Germany: Schott.
- Jawad, K. (2020). *Gatekeepers by Design? Gender HCI for Audio and Music Hardware*. PhD diss., Norwegian University of Science and Technology.
- Jawad, K., and A. Xambó (2020). How to Talk of Music Technology: An Interview Analysis Study of Live Interfaces for Music Performance among Expert Women. In *Proceedings of the International Conference on Live Interfaces*, Trondheim, Norway, pp. 41–47.
- Jenkins, M. (2007). *Analog Synthesizers - Understanding, Performing, Buying: From the Legacy of Moog to Software Synthesis*. Burlington, MA: Taylor & Francis.
- Jenseniuss, A. R. (2007). *Action-Sound: Developing Methods and Tools to Study Music-Related Body Movement*. PhD diss., University of Oslo.
- Jenseniuss, A. R. (2013a). An Action-Sound Approach to Teaching Interactive Music. *Organised Sound* 18(2), 178–189.
- Jenseniuss, A. R. (2013b). Kinectofon: Performing with Shapes in Planes. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Daejeon, Korea.
- Jenseniuss, A. R. (2013c). Some video abstraction techniques for displaying body movement in analysis and performance. *Leonardo* 46(1), 53–60.
- Jenseniuss, A. R. (2014). To Gesture or Not? An Analysis of Terminology in NIME Proceedings 2001-2013. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, London, pp. 217–220.
- Jenseniuss, A. R. (2017a). Exploring music-related micromotion. In C. Wöllner (Ed.), *Body, Sound and Space in Music and Beyond: Multimodal Explorations*, pp. 29–48. Oxon: Routledge.
- Jenseniuss, A. R. (2017b). Sonic Microinteraction in “the Air.” In M. Lesaffre, P.-J. Maes, and M. Leman (Eds.), *The Routledge Companion to Embodied Music Interaction*, pp. 431–439. New York: Routledge.
- Jenseniuss, A. R. (2018). Methods for studying music-related body motion. In R. Bader (Ed.), *Handbook of Systematic Musicology*, pp. 567–580. Berlin: Springer-Verlag.
- Jenseniuss, A. R., and A. Voldsund (2012). The Music Ball Project: Concept, Design, Development, Performance. In *Proceedings of the International Conference on New Interfaces For Musical Expression*, Ann Arbor, MI, pp. 300–303.
- Jenseniuss, A. R., A. Zelechowska, and V. E. Gonzalez-Sanchez (2017). The Musical Influence on People’s Micromotion when Standing Still in Groups. In *Proceedings of the Sound and Music Computing Conference*, Helsinki, pp. 195–200.

- Jensenius, A. R., and K. A. V. Bjerkestrand (2012). Exploring micromovements with motion capture and sonification. In A. L. Brooks (Ed.), *Arts and Technology, Revised Selected Papers*, Volume 101 of LNICST, pp. 100–107. Berlin: Springer.
- Jensenius, A. R., K. Nymoen, S. Skogstad, and A. Voldsund (2012). A Study of the Noise-Level in Two Infrared Marker-Based Motion Capture Systems. In *Proceedings of the Sound and Music Computing Conference*, Copenhagen, pp. 258–263.
- Jensenius, A. R., and M. J. Lyons (Eds.) (2017). *A NIME Reader: Fifteen Years of New Interfaces*. Berlin: Springer.
- Jensenius, A. R., M. M. Wanderley, R. I. Godøy, and M. Leman (2010). Musical gestures: Concepts and methods in research. In *Musical Gestures: Sound, Movement, and Meaning*, pp. 12–35. New York: Routledge.
- Jensenius, A. R., and R. I. Godøy (2013). Sonifying the shape of human body motion using motiongrams. *Empirical Musicology Review* 8(2), 73–83.
- Jensenius, A. R., R. Koehly, and M. M. Wanderley (2006). Building Low-Cost Music Controllers. In *CMMR 2005*, Volume 3902 of LNCS, pp. 123–129. Berlin: Springer.
- Jensenius, A. R., T. Kvitte, and R. I. Godøy (2006). Towards a Gesture Description Interchange Format. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Paris, pp. 176–179.
- Jensenius, A. R., V. E. González Sánchez, A. Zelechowska, and K. A. V. Bjerkestrand (2017). Exploring the Myo controller for sonic microinteraction. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Copenhagen, pp. 442–445.
- Johnson, P. (1997). Musical Works, Musical Performances. *The Musical Times* 138(1854), 4.
- Johnstone, E. (1985). The Rolky: A Poly-Touch Controller for Electronic Music. In *Proceedings of the International Computer Music Conference*, Burnaby, Canada, pp. 291–294.
- Jones, E. (2020). *DIY Music and the Politics of Social Media*. New York: Bloomsbury.
- Jones, R., P. Driessen, A. Schloss, and G. Tzanetakis (2009). A Force-Sensitive Surface for Intimate Control. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Pittsburgh, pp. 236–241.
- Jordà, S. (2005). *Digital Lutherie : Crafting Musical Computers for New Musics' Performance and Improvisation*. PhD diss., Universitat Pompeu Fabra.
- Jordà, S., M. Kaltenbrunner, G. Geiger, and R. Bencina (2005). The reacTable*. In *Proceedings of the 2005 International Computer Music Conference*, Barcelona, pp. 579–582. San Francisco: ICMA.
- Jordan, W. E. (1953). Norman McLaren: His Career and Techniques. *The Quarterly of Film Radio and Television* 8(1), 1–14.
- Jostmann, N. B., D. Lakens, and T. W. Schubert (2009). Weight as an Embodiment of Importance. *Psychological Science* 20(9), 1169–1174.

- Jota, R., A. Ng, P. Dietz, and D. Wigdor (2013). How Fast is Fast Enough? A Study of the Effects of Latency in Direct-Touch Pointing Tasks. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, Paris, pp. 2291–2300.
- Jungleib, S. (1996). *General MIDI*. Middleton, WI: A-R Editions.
- Kaltenbrunner, M., T. Bovermann, R. Bencina, and E. Costanza (2005). TUIO - A Protocol for Table-Based Tangible User Interfaces. In *Proceedings of the 6th International Gesture Workshop*, Vannes, France.
- Karjalainen, M., T. Mäki-Patola, A. Kanerva, and A. Huovilainen (2006). Virtual air guitar. *Journal of the Audio Engineering Society* 54(10), 964–980.
- Karplus, K., and A. Strong (1983). Digital synthesis of plucked-string and drum timbres. *Computer Music Journal* 7(2), 43–55.
- Katz, M. (2010). *Capturing Sound: How Technology Has Changed Music*. Berkeley: University of California Press.
- Keele, S. W. (1973). *Attention and Human Performance*. Pacific Palisades, CA: Goodyear Publishing Company.
- Keislar, D. (1987). History and Principles of Microtonal Keyboards. *Computer Music Journal* 11(1), 18–28.
- Keislar, D. (2009). A Historical View of Computer Music Technology. In R. T. Dean (Ed.), *The Oxford Handbook of Computer Music*. New York: Oxford University Press.
- Kelkar, T. (2019). *Computational Analysis of Melodic Contour and Body Movement*. PhD diss., University of Oslo.
- Kelkar, T., and A. R. Jensenius (2018). Analyzing Free-Hand Sound-Tracings of Melodic Phrases. *Applied Sciences* 8(1), 135.
- Kendon, A. (1980). Gesticulation and speech: Two aspects of the process of utterance. In M. R. Key (Ed.), *The Relationship between Verbal and Nonverbal Communication*, pp. 207–227. The Hague, Netherlands: Mouton Publishers.
- Kendon, A. (2004). *Gesture: Visible Action as Utterance*. Cambridge: Cambridge University Press.
- Kerman, J. (1985). *Contemplating Music: Challenges to Musicology*. Cambridge, MA: Harvard University Press.
- Kimura, M., N. Rasamimanana, F. Bevilacqua, N. Schnell, B. Zamborlin, and E. Fléty (2012). Extracting Human Expression For Interactive Composition with the Augmented Violin. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Ann Arbor, MI. University of Michigan.
- King, S., and K. Chang (2016). *Understanding Industrial Design: Principles for UX and Interaction Design*. Sebastopol, CA: O'Reilly Media, Inc.
- Kjus, Y., and A. Danielsen (2016). Live mediation: Performing concerts using studio technology. *Popular Music* 35(3), 320–337.
- Knapp, R. B., and H. S. Lusted (1990). A Bioelectric Controller for Computer Music Applications. *Computer Music Journal* 14(1), 42–47.

- Knotts, S., and N. Collins (2014). The Politics of Laptop Ensembles: A Survey of 160 Laptop Ensembles and their Organisational Structures. In B. Caramiaux, K. Tahiroglu, R. Fiebrink, and A. Tanaka (Eds.), *Proceedings of the International Conference on New Interfaces for Musical Expression*, London, pp. 191–194. Goldsmiths, University of London.
- Kockelman, P. (2013). *Agent, Person, Subject, Self: A Theory of Ontology, Interaction, and Infrastructure*. New York: Oxford University Press.
- Koehly, R. (2011). *Fabrication of Sustainable Resistive-Based Paper Touch Sensors: Application to Music Technology*. PhD diss., McGill University.
- Kohler, E., C. Keysers, M. A. Umiltà, L. Fogassi, V. Gallese, and G. Rizzolatti (2002). Hearing Sounds, Understanding Actions: Action Representation in Mirror Neurons. *Science* 297(5582), 846–848.
- Kozak, M. (2019). *Enacting Musical Time: The Bodily Experience of New Music*. New York: Oxford University Press.
- Kramer, J. D. (1988). *The Time of Music: New Meanings, New Temporalities, New Listening Strategies*. New York: Schirmer Books.
- Kreiman, J., and D. Sidtis (2011). *Foundations of Voice Studies: An Interdisciplinary Approach to Voice Production and Perception*. Malden, MA: John Wiley & Sons.
- Kunkler-Peck, A. J., and M. T. Turvey (2000). Hearing shape. *Journal of Experimental psychology: Human Perception and Performance* 26(1), 279.
- Kurtenbach, G., and E. A. Hulstén (1990). Gestures in human-computer communication. In B. Laurel and S. J. Mountford (Eds.), *The Art of Human-Computer Interface Design*. Reading, MA: Addison-Wesley.
- Kvifte, T. (1989). *Instruments and the Electronic Age: Toward a Terminology for a Unified Description of Playing Technique*. Oslo: Solum Forlag.
- Kvifte, T. (2008). What is a musical instrument. *Svensk tidskrift för musikforskning* 1(2008), 45–56.
- Kvifte, T., and A. R. Jensenius (2006). Towards a Coherent Terminology and Model of Instrument Description and Design. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, pp. 220–225.
- Lahav, A., E. Saltzman, and G. Schlaug (2007). Action Representation of Sound: Audiomotor Recognition Network While Listening to Newly Acquired Actions. *Journal of Neuroscience* 27(2), 308–314.
- Lähdeoja, O. (2015). An Augmented Guitar With Active Acoustics. In *Proceedings of the Sound and Music Computing Conference*, Maynooth, Ireland.
- Lamb, R., and A. Robertson (2011). Seaboard: A New Piano Keyboard-related Interface Combining Discrete and Continuous Control. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Oslo, pp. 503–506.
- Langer, S. K. (1957). *Philosophy in a New Key: A Study in the Symbolism of Reason, Rite, and Art*. Cambridge, MA: Harvard University Press.

- Lartillot, O., K. Nymoen, G. S. Câmara, and A. Danielsen (2021). Computational localization of attack regions through a direct observation of the audio waveform. *The Journal of the Acoustical Society of America* 149(1), 723–736.
- Launay, J. (2015). Musical Sounds, Motor Resonance, and Detectable Agency. *Empirical Musicology Review* 10(1-2), 30–40.
- Launay, J., R. T. Dean, and F. Bailes (2016). Rapid learning of associations between sound and action through observed movement. A TMS study. *Psychomusicology* 26(1), 35–42.
- Leante, L. (2014). Gesture and imagery in music performance: Perspectives from North Indian classical music. In T. Shephard and A. Leonard (Eds.), *The Routledge Companion to Music and Visual Culture*, pp. 145–152. New York: Routledge.
- Lee, D. (2019). Hornbostel-Sachs Classification. *Encyclopedia of Knowledge Organization*. Edmonton, Canada: ISKO.
- Leeuw, H. (2012). The electrumptet, additions and revisions. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Ann Arbor. University of Michigan.
- Leman, M. (2008). *Embodied Music Cognition and Mediation Technology*. Cambridge, MA: MIT Press.
- Leman, M. (2016). *The Expressive Moment: How Interaction (with Music) Shapes Human Empowerment*. Cambridge, MA: MIT Press.
- Lepri, G., and A. McPherson (2019). Fictional Instruments, Real Values: Discovering Musical Backgrounds with Non-Functional Prototypes. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Porto Alegre, Brazil.
- Lesaffre, M., P.-J. Maes, and M. Leman (Eds.) (2017). *The Routledge Companion to Embodied Music Interaction*. New York: Routledge.
- Levitin, D. J. (2014). Expert violinists can't tell old from new. *Proceedings of the National Academy of Sciences* 111(20), 7168–7169.
- Levitin, D. J., S. McAdams, and R. L. Adams (2002). Control parameters for musical instruments: A foundation for new mappings of gesture to sound. *Organised Sound* 7(2), 171–189.
- Liberman, A. M., and I. G. Mattingly (1985). The motor theory of speech perception revised. *Cognition* 21(1), 1–36.
- Libin, L. (2018). Musical instrument. *Grove Music Online*. Oxford: Oxford University Press. doi:10.1093/omo/9781561592630.013.30000000097.
- Lindblom, B. (1991). The Status of Phonetic Gestures. In I. M. Mattingly and M. Studdert-Kennedy (Eds.), *Modularity and the Motor Theory of Speech Perception, Proceedings of a Conference to Honor Alvin M. Liberman*, pp. 7–24. Florence, KY: Lawrence Erlbaum Associates.
- Linn, R. (2013). LinnStrument and other new expressive musical controllers. *The Journal of the Acoustical Society of America* 134(5), 4053–4053.
- London, J. (2004). *Hearing in Time: Psychological Aspects of Musical Meter*. New York: Oxford University Press.

- Lorenz, E. N. (1963). Deterministic nonperiodic flow. *Journal of the atmospheric sciences* 20(2), 130–141.
- Lossius, T. (2007). *Sound – Space – Body : Reflections on Artistic Practice*. Research Fellowship in the Arts thesis, Bergen National Academy of the Arts, Bergen, Norway.
- Loughridge, D., and T. Patteson (2013). Museum of Imaginary Musical Instruments. <http://imaginaryinstruments.org/about/>. Accessed March 1, 2022.
- Loy, G. (1985). Musicians make a standard: The MIDI phenomenon. *Computer Music Journal* 9(4), 8–26.
- Lutfi, R. A. (2001). Auditory detection of hollowness. *The Journal of the Acoustical Society of America* 110(2), 1010.
- Machover, T. (2004). Shaping minds musically. *BT Technology Journal* 22(4), 171–179.
- Maeda, J. (2006). *The Laws of Simplicity: Design, Technology, Business, Life*. Cambridge, MA: MIT Press.
- Magnusson, T. (2009). Of epistemic tools: Musical instruments as cognitive extensions. *Organised Sound* 14(2), 168–176.
- Magnusson, T. (2010). Designing Constraints: Composing and Performing with Digital Musical Systems. *Computer Music Journal* 34(4), 62–73.
- Magnusson, T. (2017). Musical Organics: A Heterarchical Approach to Digital Organology. *Journal of New Music Research* 46(3), 286–303.
- Magnusson, T. (2018). Ergomimesis: Towards a language describing instrumental transductions. In *Proceedings: ICLI 2018, 4th International Conference on Live Interfaces*, pp. 78–85. Porto, Portugal: Universidade do Porto.
- Magnusson, T. (2019). *Sonic Writing: Technologies of Material, Symbolic and Signal Inscriptions*. New York: Bloomsbury Academic.
- Magnusson, T. (2021). The migration of musical instruments: On the socio-technological conditions of musical evolution. *Journal of New Music Research* 50(2), 175–183.
- Mahillon, V.-C. (1880). *Catalogue Descriptif & Analytique Du Musée Instrumental Du Conservatoire Royal de Bruxelles: Précédé d'un Essai de Classification de Tous Les Instruments Anciens et Modernes*. Gand (Ghent) Belgium: C. Annot-Braeckman.
- Mankoff, J. C., E. Bleviss, A. Borning, A. Borning, B. Friedman, S. R. Fussell, J. Hasbrouck, A. Woodruff, and P. Sengers (2007). Environmental sustainability and interaction. In *CHI'07 Extended Abstracts on Human Factors in Computing Systems*, pp. 2121–2124. San Jose, CA: ACM.
- Mann, S. (2007). Natural Interfaces for Musical Expression : Physiphones and a Physics-Based Organology. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, New York City, pp. 118–123.

- Marino, G., M.-H. Serra, J.-M. Raczinski, G. Marino, and M.-H. Serra (1993). The UPIC System: Origins and Innovations. *Perspectives of New Music* 31(1), 258.
- Marshall, M. T., and M. M. Wanderley (2006). Evaluation of Sensors as Input Devices for Computer Music Interfaces. In R. Kronland-Martinet, T. Voinier, and S. Ystad (Eds.), *Computer Music Modeling and Retrieval*, Volume 3902, pp. 130–139. Berlin: Springer.
- Martin, C. P., A. R. Jensenius, and J. Torresen (2018). Composing an Ensemble Standstill Work for Myo and Bela. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Blacksburg, VA, pp. 196–197. Virginia Tech.
- Masu, R., A. P. Melbye, J. Sullivan, and A. R. Jensenius (2021). NIME and the Environment: Toward a More Sustainable NIME Practice. In *Proceedings of the International Conference on New Interfaces for Musical Expression*. Shanghai, China.
- Mayton, B., G. Dublon, N. Joliat, and J. A. Paradiso (2012). Patchwork: Multi-User Network Control of a Massive Modular Synthesizer. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Ann Arbor. University of Michigan.
- McAdams, S. (2000). The psychomechanics of real and simulated sound sources. *The Journal of the Acoustical Society of America* 107, 2792.
- McCaleb, D. J. M. (2014). *Embodied Knowledge in Ensemble Performance*. Farnham, UK: Ashgate.
- McClary, S. (1991). *Feminine Endings: Music, Gender, and Sexuality*. Minneapolis, MN: University of Minnesota Press.
- McDonnell, M. (2020). *Finding Visual Music in Its 20th-Century History*. PhD diss., University of Dublin.
- McGurk, H., and J. MacDonald (1976). Hearing lips and seeing voices. *Nature* 264(23/30), 746–748.
- McNeill, D. (1992). *Hand and Mind: What Gestures Reveal About Thought*. Chicago: University of Chicago Press.
- McNeill, D. (2005). *Gesture and Thought*. Chicago: University of Chicago Press.
- McPherson, A. (2012). TouchKeys: Capacitive Multi-Touch Sensing on a Physical Keyboard. In G. Essl, B. Gillespie, M. Gurevich, and S. O’Modhrain (Eds.), *Proceedings of the International Conference on New Interfaces for Musical Expression*, Ann Arbor. University of Michigan.
- McPherson, A., and K. Tahiroglu (2020). Idiomatic Patterns and Aesthetic Influence in Computer Music Languages. *Organised Sound: an international journal of music and technology* 25(1), 53–63.
- McPherson, A., R. Jack, and G. Moro (2016). Action-Sound Latency: Are Our Tools Fast Enough? In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Volume 16 of 2220-4806, Brisbane, Australia, pp. 20–25. Queensland Conservatorium Griffith University.

- McPherson, A., and V. Zappi (2015). An environment for submillisecond-latency audio and sensor processing on BeagleBone Black. In *Proceedings of the AES 138th Convention*, Warsaw.
- Medeiros, C. B., and M. M. Wanderley (2014). A Comprehensive Review of Sensors and Instrumentation Methods in Devices for Musical Expression. *Sensors* 14(8), 13556–13591.
- Mehrabian, A., and S. L. Friedman (1986). An analysis of fidgeting and associated individual differences. *Journal of Personality* 54(2), 406–429.
- Melbye, A. P., and H. A. Ulfarsson (2020). Sculpting the behaviour of the Feedback-Actuated Augmented Bass: Design strategies for subtle manipulations of string feedback using simple adaptive algorithms. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Birmingham, UK, pp. 259–266.
- Menin, D., and A. Schiavio (2012). Rethinking musical affordances. *Avant* 3(2), 201–215.
- Métois, E. (1997). *Musical Sound Information: Musical Gestures and Embedding Synthesis*. PhD diss., Massachusetts Institute of Technology.
- Miller, G. A. (1956). The magical number seven, plus or minus two: Some limits on our capacity for processing information. *Psychological Review* 63, 81–97.
- MIMO, C. (2011). Revision of the Hornbostel-Sachs Classification of Musical Instruments by the MIMO Consortium. Technical report, MIMO Consortium.
- Miranda, E. R. (2021). *Handbook of Artificial Intelligence for Music: Foundations, Advanced Approaches, and Developments for Creativity*. Cham, Switzerland: Springer.
- Miranda, E. R., and M. M. Wanderley (2006). *New Digital Musical Instruments: Control and Interaction beyond the Keyboard*. Middleton, WI: A-R Editions.
- Mithen, S. J. (2006). *The Singing Neanderthals: The Origins of Music, Language, Mind, and Body*. Cambridge, MA: Harvard University Press.
- Moeslund, T. B., A. Hilton, and V. Krüger (2006). A survey of advances in vision-based human motion capture and analysis. *Computer Vision and Image Understanding* 104(2-3), 90–126.
- Moeslund, T. B., and E. Granum (2001). A Survey of Computer Vision-Based Human Motion Capture. *Computer Vision and Image Understanding* 81(3), 231–268.
- Momeni, A., and D. Wessel (2003). Characterizing and Controlling Musical Material Intuitively with Geometric Models. In M. M. Wanderley, R. McKenzie, and L. Ostiguy (Eds.), *Proceedings of the International Conference on New Interfaces for Musical Expression*, Montreal, pp. 54–62.
- Moog, R. A. (1982). A Multiply Touch-Sensitive Clavier for Computer Music Systems. In *International Computer Music Conference*, Venice, Italy, pp. 601–605.

- Moog, R. (1988). The Musician: Alive and well in the world of electronics. In *The Biology of music making: Proceedings of the 1984 Denver conference*. St. Louis: MMB Music, pp. 214–220.
- Moore, A. (2016). *Sonic Art: An Introduction to Electroacoustic Music Composition*. New York: Routledge.
- Moore, F. R. (1988). The dysfunctions of MIDI. *Computer music journal* 12(1), 19–28.
- Morreale, F. (2021). Where Does the Buck Stop? Ethical and Political Issues with AI in Music Creation. *Transactions of the International Society for Music Information Retrieval* 4(1), 105–113.
- Mulder, A., S. Fels, and K. Mase (1997). Mapping virtual object manipulation to sound variation. In T. Rai and R. Basset (Eds.), *IPSJ SIG Notes*, Tokyo, pp. 63–68.
- Murray-Rust, D., and A. Smaill (2011). Towards a model of musical interaction and communication. *Artificial Intelligence* 175(9), 1697–1721.
- Neuhoff, J. G. (2001). Perceiving acoustic source orientation in three-dimensional space. In *Proceedings of the International Conference on Auditory Display*, Espoo, Finland, pp. 231–234.
- Noë, A. (2004). *Action in Perception*. Cambridge, MA: MIT Press.
- Norman, A. D. (1988). *The Design of Everyday Things*. New York: Basic Books.
- Norman, D. (2013). *The Design of Everyday Things: Revised and Expanded Edition*. New York: Basic Books.
- Norman, D. A. (2004). *Emotional Design: Why We Love (or Hate) Everyday Things*. New York: Basic Books.
- Nymoén, K. (2013). *Methods and Technologies for Analysing Links Between Musical Sound and Body Motion*. PhD diss., University of Oslo.
- Nymoén, K., A. Chandra, K. Glette, and J. Torresen (2014). Decentralized harmonic synchronization in mobile music systems. In *International Conference on Awareness Science and Technology (iCAST)*, Paris, pp. 1–6. IEEE.
- Nymoén, K., A. Voldsund, S. Skogstad, A. R. Jensenius, and J. Torresen (2012). Comparing Motion Data from an iPod Touch to a High-End Optical Infrared Marker-Based Motion Capture System. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Ann Arbor, MI. University of Michigan.
- Nymoén, K., M. R. Haugen, and A. R. Jensenius (2015). MuMYO - Evaluating and Exploring the MYO Armband for Musical Interaction. In *Proceedings of the International Conference on New Interfaces For Musical Expression*, Baton Rouge, LA, pp. 215–218.
- Nymoén, K., S. Skogstad, and A. R. Jensenius (2011). SoundSaber: A Motion Capture Instrument. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Oslo, pp. 312–315.

- Oh, J., J. Herrera, N. J. Bryan, L. Dahl, and G. Wang (2010). Evolving the mobile phone orchestra. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Sydney, Australia, pp. 82–87.
- Ojanen, M., J. Suominen, T. Kallio, and K. Lassfolk (2007). Design Principles and User Interfaces of Erkki Kurenniemi's Electronic Musical Instruments of the 1960's and 1970's. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, New York, pp. 88–93.
- Oliveros, P., S. Weaver, M. Dresser, J. Pitcher, J. Braasch, and C. Chafe (2009). Telematic music: Six perspectives. *Leonardo Music Journal* 19(1), 95–96.
- Olsen, D. A. (1986). Is it time for another-phone? *SEM Newsletter* 20(4), 5.
- O'Neill, S. (2008). *Interactive Media: The Semiotics of Embodied Interaction*. London: Springer.
- Paine, G. (2015). Interaction as material: The techno-somatic dimension. *Organised Sound* 20(01), 82–89.
- Palacio-Quintin, C. (2008). Eight Years of Practice on the Hyper-Flute: Technological and Musical Perspectives. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Genoa, Italy, pp. 293–298.
- Papanek, V. (1985). *Design for the Real World: Human Ecology and Social Change*. Chicago: Academy Chicago Publishers.
- Papetti, S., and C. Saitis (Eds.) (2018). *Musical Haptics*. Springer Series on Touch and Haptic Systems. Cham, Switzerland: Springer.
- Paradiso, J., C. Ablner, K.-y. Hsiao, and M. Reynolds (1997). The magic carpet: Physical sensing for immersive environments. In *CHI'97 Extended Abstracts on Human Factors in Computing Systems*, pp. 277–278. Atlanta, GA: ACM.
- Parncutt, R. (2007). Systematic Musicology and the History and Future of Western Musical Scholarship. *Journal of Interdisciplinary Music Studies* 1(1), 1–32.
- Peress, M. (2004). *Dvorak to Duke Ellington: A Conductor Explores America's Music and Its African American Roots*. New York: Oxford University Press.
- Pérez, M. A. O., and R. B. Knapp (2008). BioTools: A Biosignal Toolbox for Composers and Performers. In R. Kronland-Martinet, S. Ystad, and K. Jensen (Eds.), *Computer Music Modeling and Retrieval. Sense of Sounds*, Number 4969 in Lecture Notes in Computer Science, pp. 441–452. Berlin: Springer.
- Picard, R. W. (1997). *Affective Computing*. Cambridge, MA: MIT Press.
- Rautaray, S. S., and A. Agrawal (2015). Vision-based hand gesture recognition for human computer interaction: A survey. *Artificial Intelligence Review* 43(1), 1–54.
- Reboursière, L., C. Frisson, O. Lähdeoja, J. A. Mills, C. Picard-Limpens, and T. Todoroff (2010). Multimodal Guitar : A Toolbox For Augmented Guitar Performances. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Sydney, pp. 415–418.

- Repp, B. H. (1987). The sound of two hands clapping: An exploratory study. *The Journal of the Acoustical Society of America* 81(4), 1100–1109.
- Rietveld, E., and J. Kiverstein (2014). A Rich Landscape of Affordances. *Ecological Psychology* 26(4), 325–352.
- Risset, J.-C. (2015). Recollections and Reflections on Organised Sound. *Organised Sound* 20(1), 15–22.
- Rizzolatti, G., and M. A. Arbib (1998). Language within our grasp. *Trends in Neuroscience* 21, 188–194.
- Roads, C. (1996). *The Computer Music Tutorial*. Cambridge, MA: MIT Press.
- Rocchesso, D., and F. Fontana (2003). *The Sounding Object*. Firenze, Italy: Mondo estremo.
- Roehmann, F. L., F. R. Wilson, and Biology of Music Making Conference (Eds.) (1988). *The Biology of Music Making: Proceedings of the 1984 Denver Conference*. St. Louis: MMB Music.
- Rosch, E., C. B. Mervis, W. D. Gray, D. M. Johnson, and P. Boyes-Braem (1976). Basic Objects in Natural Categories. *Cognitive Psychology* 8(3), 382–439.
- Rossing, T. D., F. R. Moore, and P. A. Wheeler (2002). *The Science of Sound* (Third ed.). Boston, MA: Addison Wesley.
- Rothstein, J. (1992). *MIDI: A Comprehensive Introduction*. Number 7 in The Computer Music and Digital Audio Series. Madison, WI: A-R Ed.
- Rowe, R. (1993). *Interactive Music Systems: Machine Listening and Composing*. Cambridge, MA: MIT Press.
- Rowe, R. (2001). *Machine Musicianship*. Cambridge, MA: MIT Press.
- Ruthmann, A., and R. Mantie (2017). *The Oxford Handbook of Technology and Music Education*. New York: Oxford University Press.
- Sachs, C. (1940). *The History of Musical Instruments*. New York: W. W. Norton & Company.
- Sarath, E. W., D. E. Myers, and P. S. Campbell (2016). *Redefining Music Studies in an Age of Change: Creativity, Diversity, and Integration*. New York: Taylor & Francis.
- Savage, R. W. H. (2017). *Music, Time, and Its Other: Aesthetic Reflections on Finitude, Temporality, and Alterity*. Oxon: Routledge.
- Schaeffer, P. (1967). *Solfège de l'objet Sonore*. Paris: INA/GRM.
- Schomaker, L. (1995). A taxonomy of multimodal interaction in the human information processing system. Technical Report. A report of the ESPRIT Project 8579 MIAMI. Nijmegen, Netherlands: NICI Institute.
- Schoonderwaldt, E. (2009). *Mechanics and Acoustics of Violin Bowing: Freedom, Constraints and Control in Performance*. PhD diss., KTH Royal Institute of Technology, Stockholm.
- Schütz-Bosbach, S., and W. Prinz (2007). Perceptual resonance: Action-induced modulation of perception. *Trends in Cognitive Sciences* 11(8), 349–355.

- Scott, D. B. (Ed.) (2009). *The Ashgate Research Companion to Popular Musicology*. Oxon: Routledge.
- Serafin, S. (2004). *The Sound of Friction: Real-Time Models, Playability and Musical Applications*. PhD diss., Stanford University.
- Sethares, W. A. (2007). *Rhythm and Transforms*. London: Springer.
- Seznec, Y. (2019). *The Book of Knowledge of Impractical Musical Devices*. <https://www.impracticaldevices.com/>. Accessed March 1, 2022.
- Shaffer, L. H. (1989). Cognition and affect in musical performance. *Contemporary Music Review* 4(1), 381–389.
- Shapiro, L. A. (2019). *Embodied Cognition* (Second ed.). Oxon: Routledge.
- Shepard, B. K. (2013). *Refining Sound: A Practical Guide to Synthesis and Synthesizers*. New York: Oxford University Press.
- Skjulstad, J. (2016). *Circuit Bending as an Aesthetic Phenomenon*. Master's thesis, University of Oslo.
- Skogstad, S., K. Nymoen, and M. E. Høvin (2011). Comparing Inertial and Optical MoCap Technologies for Synthesis Control. In *Proceedings of Sound and Music Computing*, Padova, Italy, pp. 421–426.
- Skogstad, S., K. Nymoen, Y. D. Quay, and A. R. Jensenius (2011). OSC Implementation and Evaluation of the Xsens MVN Suit. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Oslo, pp. 300–303.
- Small, C. (1998). *Musicking: The Meanings of Performing and Listening*. Music/Culture. Hanover, NH: University Press of New England.
- Smalley, D. (1997). Spectromorphology: Explaining sound-shapes. *Organised Sound* 2(02), 107–126.
- Smallwood, S. (2017). Author Commentary: The Hemispherical Speaker and Beyond. In A. R. Jensenius and M. J. Lyons (Eds.), *A NIME Reader: Fifteen Years of New Interfaces*. Berlin: Springer.
- Smith, J. (1992). Physical modeling using digital waveguides. *Computer Music Journal* 16(4), 74–91.
- Smith, S. (2013). *Hip-Hop Turntablism, Creativity and Collaboration*. Burlington, VT: Ashgate.
- Smus, B. (2013). *Web Audio API*. Beijing: O'Reilly Media.
- Snell, J. M. (1983). Sensors for Playing Computer Music with Expression. In *Proceedings of the International Computer Music Conference*. Rochester, NY, pp. 113–126.
- Snyder, B. (2000). *Music and Memory: An Introduction*. Cambridge, MA: MIT Press.
- Solberg, R. T., and A. R. Jensenius (2017). Pleasurable and Intersubjectively Embodied Experiences of Electronic Dance Music. *Empirical Musicology Review* 11(3-4), 301–318.

- Solberg, R. T., and A. R. Jensenius (2019). Group behaviour and interpersonal synchronization to electronic dance music. *Musicae Scientiae* 23(1), 111–134.
- Sporrel, K., S. R. Caljouw, and R. Withagen (2017). Gap-crossing behavior in a standardized and a nonstandardized jumping stone configuration. *PLOS ONE* 12(5), e0176165.
- Stember, M. (1991). Advancing the social sciences through the interdisciplinary enterprise. *The Social Science Journal* 28(1), 1–14.
- Stenslie, S. (2011). *Virtual Touch: A Study of the Use and Experience of Touch in Artistic, Multimodal and Computer-Based Environments*. PhD diss., Oslo School of Architecture and Design.
- Stern, D. N. (2004). *The Present Moment in Psychotherapy and Everyday Life*. New York: WW Norton & Company.
- Sterne, J. (2003). *The Audible Past: Cultural Origins of Sound Reproduction*. Durham, NC: Duke University Press.
- Streeck, J., C. Goodwin, and C. LeBaron (2011). *Embodied Interaction: Language and Body in the Material World*. Cambridge, UK: Cambridge University Press.
- Sudnow, D. (1993). *Ways of the Hand: The Organization of Improvised Conduct*. Cambridge, MA: MIT Press.
- Sudnow, D. (2001). *Ways of the Hand*. Cambridge, MA: MIT Press.
- Sullivan, J., and M. M. Wanderley (2019). Surveying Digital Musical Instrument Use Across Diverse Communities of Practice. In *International Symposium on Computer Music Multidisciplinary Research*, Marseille, France.
- Swarbrick, D., D. Bosnyak, S. R. Livingstone, J. Bansal, S. Marsh-Rollo, M. H. Woolhouse, and L. J. Trainor (2019). How Live Music Moves Us: Head Movement Differences in Audiences to Live Versus Recorded Music. *Frontiers in Psychology* 9(2682).
- Sweller, J. (1994). Cognitive load theory, learning difficulty and instructional design. *Learning and Instruction* 4, 295–312.
- Tahiroglu, K., M. Gurevich, and R. B. Knapp (2018). Contextualising Idiomatic Gestures in Musical Interactions with NIMEs. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Blacksburg, VA, pp. 126–131. Virginia Tech.
- Tanaka, A. (1993). Musical technical issues in using interactive instrument technology with application to the BioMuse. In *Proceedings of the International Computer Music Conference*, Waseda, Japan, pp. 124–124.
- Tatar, K., and P. Pasquier (2019). Musical agents: A typology and state of the art towards Musical Metacreation. *Journal of New Music Research* 48(1), 56–105.
- Théberge, P. (1997). *Any Sound You Can Imagine: Making Music/Consuming Technology*. Hanover, NH: Wesleyan University Press.
- Thelle, N. J. W. (2010). *Making Sensors Make Sense: Challenges in the Development of Digital Musical Instruments*. Master's thesis, University of Oslo.

Thomas, N. J. (2007). Mental Imagery. In E. N. Zalta (Ed.), *The Stanford Encyclopedia of Philosophy*. The Metaphysics Research Lab, Stanford University. <http://plato.stanford.edu/archives/win2003/entries/mental-imagery>. Accessed April 8, 2009.

Thompson, W. F., P. Graham, and F. A. Russo (2005). Seeing music performance: Visual influences on perception and experience. *Semiotica* 2005(156).

Thoresen, L., and A. Hedman (2015). *Emergent Musical Forms: Aural Explorations*. Department of Music Research and Composition, University of Western Ontario.

Timmers, R., F. Bailes, and H. Daffern (Eds.) (2022). *Together in Music: Participation, Co-Ordination, and Creativity in Ensembles*. Oxford: Oxford University Press.

Traer, J., and J. H. McDermott (2016). The perception of reverberation is constrained by environmental statistics. *The Journal of the Acoustical Society of America* 139(4), 2210–2210.

Trevarthen, C. (1999). Musicality and the intrinsic motive pulse: Evidence from human psychobiology and infant communication. *Musicae Scientiae* 3(1), 155–211.

Trueman, D. (2007). Why a laptop orchestra? *Organised Sound* 12(2), 171–179.

Tsay, C.-J. (2013). Sight over sound in the judgment of music performance. *Proceedings of the National Academy of Sciences* 110(36), 14580–14585.

Tsoukalas, K., J. Kubalak, and I. I. Bukvic (2018). L2OrkMote: Reimagining a Low-Cost Wearable Controller for a Live Gesture-Centric Music Performance. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Blacksburg, VA, pp. 275–280. Virginia Tech.

Turchet, L., T. West, and M. M. Wanderley (2019). Smart Mandolin and Musical Haptic Gilet: Effects of vibro-tactile stimuli during live music performance. In *Proceedings of Audio Mostly*, Nottingham, UK.

van Eck, C. (2017). *Between Air and Electricity: Microphones and Loudspeakers as Musical Instruments*. New York: Bloomsbury Academic.

Van Nort, D. (2010). *Modular and Adaptive Control of Sound Processing*. PhD diss., McGill University.

Vines, B., C. Krumhansl, M. Wanderley, and D. Levitin (2006). Cross-modal interactions in the perception of musical performance. *Cognition* 101(1), 80–113.

Volpe, G., A. D’Ausilio, L. Badino, A. Camurri, and L. Fadiga (2016). Measuring social interaction in music ensembles. *Philosophical Transactions of the Royal Society B: Biological Sciences* 371(1693), 20150377.

von Hornbostel, E. M., and C. Sachs (1914). Systematik der musikinstrumente. Ein versuch. *Zeitschrift für Ethnologie* 46(H. 4/5), 553–590.

von Hornbostel, E. M., and C. Sachs (1961). Classification of Musical Instruments: Translated from the Original German by Anthony Baines and Klaus P. Wachsmann. *The Galpin Society Journal* 14, 3–29.

- Voulodimos, A., N. Doulamis, A. Doulamis, and E. Protopapadakis (2018). Deep Learning for Computer Vision: A Brief Review. *Computational Intelligence and Neuroscience* 2018, e7068349.
- Waisvisz, M. (1985). The Hands, a set of remote MIDI-controllers. In *Proceedings of the International Computer Music Conference*, San Francisco, pp. 313–318. International Computer Music Association.
- Waisvisz, M. (2004). Crackle history. <http://www.crackle.org/CrackleBox.htm>. Accessed March 1, 2022.
- Wanderley, M. M. (2001). *Performer-Instrument Interaction. Application to Gestural Control of Sound Synthesis*. PhD diss., University Paris VI.
- Wanderley, M. M., and N. Orio (2002). Evaluation of input devices for musical expression: Borrowing tools from hci. *Computer Music Journal* 26(3), 62–76.
- Wanderley, M. M., and P. Depalle (2004). Gestural control of sound synthesis. *Proceedings of the IEEE* 92(4), 632–644.
- Wanderley, M. M., P. Depalle, and O. Warusfel (1999). Improving instrumental sound synthesis by modeling the effects of performer gesture. In *Proceedings of the International Computer Music Conference*, Beijing, pp. 418–421.
- Wang, G. (2018). *Artful Design: Technology in Search of the Sublime*. Redwood City, CA: Stanford University Press.
- Wang, S., M. M. Wanderley, and G. Scavone (2020). The Study of Mapping Strategies Between the Excitators of the Single-Reed Woodwind and the Bowed String. In H. Li, S. Li, L. Ma, C. Fang, and Y. Zhu (Eds.), *Proceedings of the 7th Conference on Sound and Music Technology (CSMT)*, Volume 635, pp. 107–119. Singapore: Springer.
- Warren, W. H., and R. R. Verbrugge (1984). Auditory Perception of Breaking and Bouncing Events: A Case Study in Ecological Acoustics. *Journal of Experimental Psychology* 10(5), 704–712.
- Weiner, I. B. (2003). *Handbook of Psychology, Experimental Psychology*. New York: John Wiley & Sons.
- Weium, F., and T. Boon (Eds.) (2013). *Material Culture and Electronic Sound*. Volume 8. Washington, DC: Smithsonian Institution Scholarly Press.
- Wenger, E. (1998). *Communities of Practice: Learning, Meaning, and Identity*. Cambridge, MA: Cambridge University Press.
- Wessel, D., and M. Wright (2001). Problems and Prospects for Intimate Musical Control of Computers. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Seattle, pp. 11–14.
- Wessel, D., and M. Wright (2002). Problems and prospects for intimate musical control of computers. *Computer Music Journal* 26(3), 11–22.
- Williams, A., V. Witani, J. Westendorp, and A. White (2011). Network devices, methods and/or systems for use in a media network. Patent: EP2255541A4. U.S. Patent Application No. 12/735,925. 2011 Jan 6.
- Wilson, M., and G. Knoblich (2005). The Case for Motor Involvement in Perceiving Conspicifics. *Psychological Bulletin* 131(3), 460–473.

Winters, R. M., A. Savard, V. Verfaillie, and M. M. Wanderley (2012). A Sonification Tool for the Analysis of Large Databases of Expressive Gesture. *The International Journal of Multimedia & Its Applications* 4(6), 13–26.

Withagen, R., and S. R. Caljouw (2017). Aldo van Eyck's Playgrounds: Aesthetics, Affordances, and Creativity. *Frontiers in Psychology* 8, 1130.

Withagen, R., H. J. de Poel, D. Araújo, and G.-J. Pepping (2012). Affordances can invite behavior: Reconsidering the relationship between affordances and agency. *New Ideas in Psychology* 30(2), 250–258.

Wöllner, C., D. Hammerschmidt, and H. Albrecht (2018). Slow motion in films and video clips: Music influences perceived duration and emotion, autonomic physiological activation and pupillary responses. *PLOS ONE* 13(6), e0199161.

Wright, M. (2002). Problems and prospects for intimate and satisfying sensor-based control of computer sound. In *Sensors and Input for Multimedia Systems*, Santa Barbara, CA.

Wright, M. (2017). Unsolved Problems and Continuing Prospects for Intimate Musical Control of Computers. In A. R. Jensenius and M. J. Lyons (Eds.), *A NIME Reader: Fifteen Years of New Interfaces*, pp. 22–24. Berlin: Springer.

Wright, M., and A. Freed (2017). Open Sound Control: Some Context and Reflections on Thirteen Years' Advances. In A. R. Jensenius and M. J. Lyons (Eds.), *A NIME Reader: Fifteen Years of New Interfaces*, pp. 140–142. Berlin: Springer.

Wright, M., and A. Freed (1997). Open SoundControl: A New Protocol for Communicating with Sound Synthesizers. In *International Computer Music Conference*, Thessaloniki, Greece, pp. 101–104.

Wright, M., A. Freed, A. Lee, T. Madden, and A. Momeni (2001). Managing complexity with explicit mapping of gestures to sound control with osc. In *International Computer Music Conference*, Havana, Cuba, pp. 314–317.

Wurtzler, S. (2007). *Electric Sounds: Technological Change and the Rise of Corporate Mass Media*. Film and Culture Series. New York: Columbia University Press.

Xambó, A. (2018). Who Are the Women Authors in NIME?—Improving Gender Balance in NIME Research. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Blacksburg, VA, pp. 174–177. Virginia Tech.

Yost, W. A., A. N. Popper, and R. R. Fay (Eds.) (2008). *Auditory Perception of Sound Sources*. New York: Springer.

Zeigler, E. F. (1990). Don't forget the profession when choosing a name. In *The Evolving Undergraduate Major*. Champaign, IL: Human Kinetics.

Zelechowska, A., V. E. González Sánchez, B. Laeng, and A. R. Jensenius (2020). Headphones or Speakers? An Exploratory Study of Their Effects on Spontaneous Body Movement to Rhythmic Music. *Frontiers in Psychology* 11, 698.

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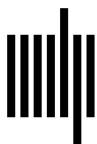
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