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## Journal Articles

González Sánchez, V. E., Dahl, S., Hatfield, J., & Godøy, R. I. (2019). Characterizing movement fluency in musical performance: Toward a generic measure for technology enhanced learning. *Frontiers in Psychology, 10*.  
<https://doi.org/10.3389/fpsyg.2019.00084>

Erkut, C., & Dahl, S. (2019). Incorporating Virtual Reality with Experiential Somaesthetics in an Embodied Interaction Course. *The Journal of Somaesthetics, 4*(2), 25-39.

Dahl, S., Huron, D., Brod, G., & Altenmüller, E. (2014). Preferred Dance Tempo: Does Sex or Body Morphology influence how we groove? *Journal of New Music Research, 43*(2), 214-223. <https://doi.org/10.1080/09298215.2014.884144>

Petrini, K., Pollick, F. E., Dahl, S., McAleer, P., McKay, L., Rocchesso, D., ... Puce, A. (2011). Action expertise reduces brain activity for audiovisual matching actions: An fMRI study with expert drummers. *NeuroImage, 56*(3), 1480-1492.  
<https://doi.org/10.1016/j.neuroimage.2011.03.009>

Huron, D., Dahl, S., & Johnson, R. (2009). Facial expression and vocal pitch height: Evidence of an intermodal association. *Empirical Musicology Review, 4*(3), 93-100.

Petrini, K., Dahl, S., Rocchesso, D., Waadeland, C. H., Avanzini, F., Puce, A., & Pollick, F. E. (2009). Multisensory integration of drumming actions: musical expertise affects perceived audiovisual asynchrony. *Experimental Brain Research, 198*(2-3), 339-352. <https://doi.org/10.1007/s00221-009-1817-2>

Dahl, S., & Friberg, A. (2007). Visual perception of expressiveness in musicians' body movements. *Music Perception, 24* (4), 433-454.

Dahl, S., & Friberg, A. (2004). Expressiveness of musician's body movements in performances on marimba. *Lecture Notes in Computer Science, 2915*, 479-486.

Rinman, M-L., Friberg, A., Bendiksen, B., Cirotteau, D., Dahl, S., Kjellmo, I., ... Camurri, A. (2004). Ghost in the Cave: An Interactive Collaborative Game Using Non-verbal Communication. *Lecture Notes in Computer Science, 2915*, 549-556.

Dahl, S. (2004). Playing the accent - comparing striking velocity and timing in an ostinato rhythm performed by four drummers. *Acustica United with Acta Acustica, 90*(4), 762-776.

Dahl, S., & Granqvist, S. (2003). Estimating Internal Drift and Just Noticeable Difference in perception of continuous tempo drift. *Annals of the New York Academy of Sciences, 999*, 161-165.

Dahl, S. (2000). The playing of an accent - Preliminary observations from temporal and kinematic analysis of percussionists. *Journal of New Music Research, 29*(3), 225-234.

## Book chapters

### **Movements, timing and precision of drummers**

Dahl, S., 2018, *Handbook of Human Motion*. Müller, B., Wolf, S., Brueggemann, G-P., Deng, Z., McIntosh, A., Miller, F. & Selbie, W. S. (eds.). Springer

### **The challenge of a lifetime**

Dahl, S., 2018, *Celebrity for the Curious : Why Study Celebrity, Music, and Film Studies? : (A Guide to University Major for Students, Their Career Advisors and Teachers)*. Vaidya, K. (ed.). The Curious Academic Publishing

### **Gestures in performance**

Dahl, S., Bevilacqua, F., Bresin, R., Clayton, M., Leante, L., Poggi, I. & Rasamimanana, N., 2009, *Musical Gestures: Sound, Movement, and Meaning*. Godøy, R. I. & Leman, M. (eds.). Routledge

### **Movements and analysis of drumming.**

Dahl, S., 2006, *Music, Motor Control and the Brain..* Altenmüller, E., Wiesendanger, M. & Kesselring, J. (eds.). New York: Oxford University Press, p. 125 -138

## **Conference publications and proceedings**

### **ADEPT: Exploring the Design, Pedagogy, and Analysis of a Mixed Reality Application for Piano Training**

Gerry, L., Dahl, S. & Serafin, S., 2019, *Proceedings of the 16th Sound & Music Computing Conference SMC 2019*. 9 p.

### **An Interactive Music Synthesizer for Gait Training in Neurorehabilitation**

Kantan, P. & Dahl, S., 2019, *Proceedings of the 16th Sound & Music Computing Conference SMC 2019*. p. 159-166

### **Incorporating virtual reality in an embodied interaction course**

Erkut, C. & Dahl, S., 28 Jun 2018, *Proceedings of the 5th International Conference on Movement and Computing, MOCO 2018*. Association for Computing Machinery, 6 p. a45

### **Rhythmic recurrency in dance to music with ambiguous meter**

Dahl, S. & Sioros, G., 28 Jun 2018, *Proceedings of the 5th International Conference on Movement and Computing, MOCO 2018*. Association for Computing Machinery, 6 p. 38

### **An Expressive Multidimensional Physical Modelling Percussion Instrument**

Tissieres, J. Y., Vaseileiou, A., Zabetian, S., Delgado, P., Dahl, S. & Serafin, S., 2018, *Proceedings of the 15th Sound and Music Computing Conference (SMC2018)*. Georgaki, A. & Andreopoulou, A. (eds.). Zenodo, p. 339-346 (Proceedings of the Sound and Music Computing Conference).

### **NordicSMC: A Nordic University Hub on Sound and Music Computing**

Serafin, S., Dahl, S., Bresin, R., Jensenius, A. R., Unnþórsson, R. & Välimäki, V., 2018, *Proceedings of the 15th Sound and Music Computing Conference (SMC2018)*. Sound and Music Computing Network, p. 130-134 (Proceedings of the Sound and Music Computing Conference).

### **Timbre Discrimination for Brief Instrument Sounds**

Bigoni, F. & Dahl, S., 2018, *Proceedings of the 19th International Society for Music Information Retrieval Conference*. dblp Computer Science Bibliography, p. 128-134

### **Embodied Interaction through Movement in a Course Work**

Erkut, C. & Dahl, S., 28 Jun 2017, *MOCO 2017 - Proceedings of the 4th International Conference on Movement Computing*. Association for Computing Machinery, 23

### **Does Singing a Low-Pitch Tone Make You Look Angrier?**

Ahrendt, P., Bach, C. C. & Dahl, S., 2017, *Proceedings of the 14th Sound and Music Computing Conference 2017*. Aalto University, p. 181-187 (Proceedings of the Sound and Music Computing Conference).

### **Exploring Sound-Motion Textures in drum set performance**

Godøy, R. I., song, M. & Dahl, S., 2017, *Proceedings of the 14th Sound and Music Computing Conference*. Aalto University, 8 p. (Proceedings of the Sound and Music Computing Conference).

### **Extraction, Mapping, and Evaluation of Expressive Acoustic Features for Adaptive Digital Audio Effects**

Holfelt, J., Csapo, G., Andersson, N. S., Zabetian, S., Castanieto, M. A., Overholt, D., Dahl, S. & Erkut, C., 2017, *Proceedings of the 14th Sound and Music Computing Conference 2017*. Aalto University, (Proceedings of the Sound and Music Computing Conference).

### **Exploring felt qualities of embodied interaction with movement and sound**

Erkut, C., Rajala-Erkut, A. & Dahl, S., 2015, *Arts and Technology: Fourth International Conference, ArtsIT 2014, Istanbul, Turkey, November 10-12, 2014, Revised Selected Papers*. Brooks, A. L., Ayiter, E. & Yazicigil, O. (eds.). Springer, p. 77-85 9 p. (Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, Vol. 145).

### **Sketches in Embodied Interaction: Balancing Movement and Technological Perspectives**

Erkut, C., Dahl, S. & Triantafyllidis, G., 1 Jan 2014, *HCI International 2014: International Conference, HCI International 2014, Heraklion, Crete, Greece, June 22-27, 2014. Proceedings, Part I*. Springer, p. 30-35 6 p. (Communications in Computer and Information Science, Vol. 434 PART I).

### **Sound and music computing at Aalborg University in Copenhagen**

Serafin, S., Dahl, S., Götzen, A. D., Erkut, C., Overholt, D., Purwins, H. & Sturm, B., 1 Jan 2014, *Proceedings - 40th International Computer Music Conference, ICMC 2014 and 11th Sound and Music Computing Conference, SMC 2014 - Music Technology Meets Philosophy: From Digital Echos to Virtual Ethos*. National and Kapodistrian University of Athens, p. 1818-1821 4 p.

### **Good playing practice when drumming: Influence of tempo on timing and preparatory movements for healthy and dystonic players**

Dahl, S., Grossbach, M. & Altenmüller, E., Aug 2011, *Proceedings of the International Symposium on Performance Science 2011*. Williamon, A., Edwards, D. & Bartel, L. (eds.). Utrecht, The Netherlands.: European Association of Conservatoires, p. 237-242

### **Effect of dynamic level in drumming: Measurement of striking velocity, force, and sound level**

Dahl, S., Grossbach, M. & Altenmüller, E., 2011, *Proceedings of Forum Acusticum*. Danish Acoustical Society, p. 621-624 4 p.

### **Timing and motor control in drumming: Comparing players with and without focal dystonia.**

Dahl, S., Grossbach, M. & Altenmüller, E., 2010.

### **Disturbed moving patterns when drumming - influence of extreme tempi on percussionists with and without focal dystonia**

Dahl, S. & Altenmüller, E., 2009.

### **Influences of movement and grip on perceptual and measured tone quality in drumming**

Dahl, S., Grossbach, M. & Altenmüller, E., 2008.

### **Motor control in drumming: Influence of movement pattern on contact force and sound characteristics"**

Dahl, S. & Altenmüller, E., 2008. 6 p.

### **Sound production in healthy and diseased drummers: an acoustic and movement analysis approach.**

Dahl, S. & Altenmüller, E., 2008.

### **High pitch - friendly face.**

Dahl, S., Huron, D. & Johnson, R., 2007.

**The influence of Body Morphology on Preferred Dance Tempos.**

Dahl, S. & Huron, D., 2007, *International Computer Music Conference -ICMC07*. International Computer Music Association, Vol. 2. p. 1-4

**Production and perception of gestures in music performance.**

Dahl, S., 2006.

**Motor behaviour in drumming with different striking tools: Effects of tempo on control of rebound.**

Dahl, S. & Huys, R., 2005.

**Activities**

**16th Sound and music computing conference**

Sofia Dahl (Participant)

28 May 2019 → 31 May 2019

**NordicSMC Winter School**

Sofia Dahl (Participant)

4 Mar 2019 → 8 Mar 2019

**The Journal of Somaesthetics (Journal)**

Cumhur Erkut (Editor), Sofia Dahl (Editor)

2019

**RITMO International Motion Capture Workshop**

Sofia Dahl (Participant)

12 Nov 2018 → 14 Nov 2018

**4th International conference on movement and computing**

Sofia Dahl (Participant)

28 Jun 2017 → 30 Jun 2017

**Workshop: Training, Sharing, and Enacting: Somaesthetics of Rhythmic Interaction**

Cumhur Erkut (Lecturer), Sofia Dahl (Lecturer)

28 Jun 2017

**First International Workshop on Motor Learning for Music Performance**

Sofia Dahl (Participant), minho song (Participant), Rolf Inge Godøy (Participant)

15 May 2017

**Research Topic Functions of musical rhythm (Journal)**

Sofia Dahl (Editor)

31 Oct 2013 → 30 Jun 2014

**International symposium on performance science**

Sofia Dahl (Organizer)

28 Aug 2013 → 31 Aug 2013

**SMAC Stockholm Music Acoustics Conference 2013 SMC Sound and Music Computing Conference 2013**

Sofia Dahl (Organizer)

30 Jul 2013 → 3 Aug 2013

**Expression and control in music performance: The role of musicians' movements**

Sofia Dahl (Speaker)

4 Jun 2013

**9th Sound and Music Computing Conference (SMC 2012)**

Sofia Dahl (Organizer)

11 Jul 2012 → 14 Jul 2012

**Sound and Music Computing, Understanding and Practicing in Sweden**

Sofia Dahl (Organizer)

3 Apr 2012 → 4 Apr 2012

**13th International Rhythm Perception and Production Workshop**

Sofia Dahl (Organizer)

13 Jul 2011 → 15 Jul 2011

**ASME 2011 World Conference on Innovative Virtual Reality (WINVR2011)**

Sofia Dahl (Organizer)

27 Jun 2011 → 29 Jun 2011

**Journal of New Music Research (Journal)**

Sofia Dahl (Reviewer)

1 Jan 2011 → ...

**Haptic Audio Interaction Design**

Sofia Dahl (Organizer)

16 Sep 2010 → 17 Sep 2010

**The striking movement.: How do percussionists control timing and dynamic level when drumming?**

Sofia Dahl (Lecturer)

11 Feb 2010

**The striking movement.: How do percussionists control timing and dynamic level when drumming?**

Sofia Dahl (Lecturer)

11 Feb 2010

**Movement and timing control in drummers.**

Sofia Dahl (Lecturer)

20 Nov 2009