

Ann Morrison
Associate Professor,
Mobility and Tracking Technologies
Multimodal Interactive Experiences
Department of Architecture, Design and Media Technology
Research Laboratory for Art and Technology

E-mail: morrison@create.aau.dk
Phone: 9940 7452
Fax: 9940 9788
Mobile: 2552 0073
Website: <http://personprofil.aau.dk/profil/122226>

Peer Reviewed Full Paper Publications

Animal computer interaction (ACI) & Designing for animal interaction (AXD)

Morrison, A., Turner, J. & Webber, S., 4 Dec 2018, *Proceedings of the 30th Australian Computer-Human Interaction Conference, OzCHI 2018*. Morrison, A., Buchanan, G., Waycott, J., Billinghamurst, M., Stevenson, D., Choi, JH-J., Billinghamurst, M., Kelly, R., McKay, D. & Lugmayr, A. (eds.). Association for Computing Machinery, p. 618-619 2 p. (ACM International Conference Proceedings Series).

Pathways & paws(es): Engaging human-animal partnerships for community building and slow cities

Turner, J., Browning, D. & Morrison, A., 4 Dec 2018, *Proceedings of the 30th Australian Computer-Human Interaction Conference, OzCHI 2018*. Morrison, A., Buchanan, G., Waycott, J., Billinghamurst, M., Stevenson, D., Choi, JH-J., Billinghamurst, M., Kelly, R., McKay, D. & Lugmayr, A. (eds.). Association for Computing Machinery, p. 184-188 5 p.

Sensations on the body: Varying duration, overlap, ratios and placement on dynamic vibrotactile patterns

Morrison, A., Manresa-Yee, C. & Jensen, W., 12 Sep 2018, *Proceedings of the 19th International Conference on Human-Computer Interaction, Interaccion 2018*. Association for Computing Machinery, 8 p. 6

Vibrotactile and Vibroacoustic Communications: Pairs in Interaction and Play. An Interactive Structure and Bodies in an Urban Environment

Morrison, A., Manresa, C., Knoche, H. & Jensen, B. W. S., 1 Aug 2018, In : *Universal Access in the Information Society*. 17, 3, p. 585-605 21 p.

Emotion-awareness for intelligent vehicle assistants: A research agenda

Vögel, H. J., Sü, C., Hubregtsen, T., Ghaderi, V., Chadowitz, R., André, E., Cummins, N., Schuller, B., Härrä, J., Troncy, R., Huet, B., Nen, M., Ksentini, A., Conrath, J., Adi, A., Zadorojniy, A., Terken, J., Beskow, J., Morrison, A., Eng, K. & 3 others Eyben, F., Moubayed, S. A. & Müller, S., 28 May 2018, *Proceedings - 2018 ACM/IEEE 1st International Workshop on Software Engineering for AI in Autonomous Systems, SEFAIAS 2018*. IEEE Computer Society Press, Vol. Part F138004. p. 11-15 5 p.

Vibrotactile and vibroacoustic interventions into health and well-being

Morrison, A., Manresa-Yee, C. & Knoche, H., 1 Mar 2018, In : *Universal Access in the Information Society*. 17, 1, p. 5-20 16 p.

Contextual consistency as an improvement to user experience and system transparency: The case of a vibrotactile relaxation device with implicit triggers

Gamberini, L., Freuli, F., Nedves, M., Jensen, W., Morrison, A., Orso, V., Degiuli, G. & Spagnolli, A., 1 Jan 2018, *Symbiotic Interaction: 6th International Workshop, Symbiotic 2017, Revised Selected Papers*. Springer, p. 42-52 11 p. (Lecture Notes in Computer Science, Vol. 10727 LNCS).

Welcome from the technical program chairs

Vyas, D., Morrison, A., Soro, A., Waycott, J. & Ploderer, B., 28 Nov 2017, *Proceedings of the 29th Australian Conference on Computer-Human Interaction*. Association for Computing Machinery, p. iv 1 p. (ACM International Conference Proceedings Series).

A report on the first international workshop on research methods in animal-computer interaction

Zamansky, A., Roshier, A., Mancini, C., Collins, E. C., Hall, C., Grillaert, K., Morrison, A., North, S. & Wirman, H., 6 May 2017, *CHI 2017 Extended Abstracts - Proceedings of the 2017 ACM SIGCHI Conference on Human Factors in Computing Systems: Explore, Innovate, Inspire*. Association for Computing Machinery, Vol. Part F127655. p. 806-815 10 p.

Designing the social Internet of Things

Soro, A., Brereton, M., Roe, P., Wyeth, P., Johnson, D., Ambe, A. H., Morrison, A., Bardzell, S., Leong, T. W., Ju, W., Lindtner, S., Rogers, Y. & Buur, J., 6 May 2017, *CHI 2017 Extended Abstracts - Proceedings of the 2017 ACM SIGCHI Conference on Human Factors in Computing Systems: Explore, Innovate, Inspire*. Association for Computing Machinery, Vol. Part F127655. p. 617-623 7 p.

Animal computer interaction (ACI) & designing for animal interaction (AXD)

Morrison, A. J., Turner, J., Farley, H., Webber, S. & Oliver, J. L., 2017, *OZCHI '17 Proceedings of the 29th Australian Conference on Computer-Human Interaction*. Association for Computing Machinery, p. 656-657

Interactive Furniture: Bi-directional Interaction with a Vibrotactile Wearable Vest in an Urban Space

Morrison, A. J., Leegaard, J. H., Manresa-Yee, C., Jensen, B. W. S. & Knoche, H., 2017, *Recent Advances in Technologies of Inclusive Well-Being: From Worn to Off-body Sensing, Virtual Worlds, and Games for Serious Applications*. Brooks, A. L., Brahnam, S., Kapralos, B. & Jain, L. C. (eds.). Springer, p. 183-220 (Intelligent Systems Reference Library; No. 1, Vol. 119).

Investigating Tactile Stimulation in Symbiotic Systems

Orso, V., Mazza, R., Gamberini, L., Morrison, A. J. & Jensen, B. W. S., 2017, *Symbiotic Interaction: 5th International Workshop, Symbiotic 2016 Padua, Italy, September 29–30, 2016 Revised Selected Papers*. Springer, p. 137-142 (Lecture Notes in Computer Science, Vol. 9961).

Mixing quantitative with qualitative methods: current practices in designing experiments, gathering data and analysis with mixed methods reporting

Morrison, A., Viller, S., Heck, T. & Davis, K., 2017, *OZCHI '17 Proceedings of the 29th Australian Conference on Computer-Human Interaction*. Association for Computing Machinery, p. 654 655 p.

Multi-sensory Environmental Stimulation for Users with Multiple Disabilities

Manresa-Yee, C., Morrison, A. J., Jordi Muntaner, J. & Francesca Roig-Maimó, M., 2017, *Recent Advances in Technologies for Inclusive Well-Being: From Worn to Off-body Sensing, Virtual Worlds, and Games for Serious Applications*. Brooks, A. L., Brahnam, S., Kapralos, B. & Jain, L. C. (eds.). Springer, p. 165 - 182 (Intelligent Systems Reference Library, Vol. 119).

Proceedings of the 29th Australian Conference on Computer-Human Interaction

Brereton, M. (ed.), Soro, A. (ed.), Vyas, D. (ed.), Ploderer, B. (ed.), Morrison, A. J. (ed.) & Waycott, J. (ed.), 2017, Association for Computing Machinery. 678 p.

The Impact of Training Approaches on Experimental SetUp and Design of Wearable Vibrotactiles for Hunting Dogs

Morrison, A. J., Møller, R. H., Manresa-Yee, C. & Eshraghi, N., 15 Nov 2016, *The Third International Conference on Animal-Computer Interaction 2016*. Association for Computing Machinery, 10 p. 4

Temporary & Smart Placemaking at Stigsborg Waterfront

Wind, S. (ed.), Lauring, G. M. (ed.) & Morrison, A. J. (ed.), Jul 2016, Aalborg. 98 p. (Institut for Arkitektur, Design og Medieteknologis skriftserie, Vol. 96).

The Humming Wall: Vibrotactile and vibroacoustic interactions in an urban environment

Morrison, A., Manresa-Yee, C., Jensen, B. W. S. & Eshraghi, N., 4 Jun 2016, *DIS 2016 - Proceedings of the 2016 ACM Conference on Designing Interactive Systems: Fuse*. Association for Computing Machinery, p. 818-822

Transmedia Perspectives

Ghellal, S., Wiklund-Engblom, A., Morrison, A. & Obal, D., 12 May 2016, *Media Convergence Handbook: Firms and User Perspectives*. Lugmayr, A. & Dal Zotto, C. (eds.). Berlin/Heidelberg: Springer, Vol. 2. p. 309-325 15 p. (Media Business and Innovation).

Follow the vibes: A comparison between two tactile displays in a navigation task in the field

Orso, V., Gamberini, L., Mazza, R., Hsieh, Y.-T., Jensen, B. W. S., Jacucci, G. & Morrison, A. J., 2016, In : *PsychNology*. 14, 1, p. 61-79

Vibrotactile Language: Bi-directional Interaction between a Vibrotactile wearable vest and a Vibroacoustic Humming Wall

Morrison, A. J., Aug 2015, 1 p.

Designing a Vibrotactile Language for a Wearable Vest

Morrison, A., Knoche, H. & Manresa-Yee, C., 2015, *Design, User Experience, and Usability: Users and Interactions: 4th International Conference, DUXU 2015, Held as Part of HCI International 2015, Los Angeles, CA, USA, August 2-7, 2015, Proceedings, Part II*. Marcus, A. (ed.). Springer Publishing Company, p. 655-666 10 p. (Lecture Notes in Computer Science, Vol. 9187).

First Insights with a Vibrotactile Interface for Children with Multiple Disabilities

Manresa-Yee, C., Morrison, A. & Jordi Muntaner, J., 2015, *CHI EA '15 Proceedings of the 33rd Annual ACM Conference : Extended Abstracts on Human Factors in Computing Systems*. Association for Computing Machinery, p. 905-910

The Internet of Playful Things

Wyeth, P., Brereton, M., Roe, P., Morrison, A. J., Rogers, Y., Soro, A. & Johnson, D., 2015, *CHI PLAY '15 : Proceedings of the 2015 Annual Symposium on Computer-Human Interaction in Play*. Association for Computing Machinery, p. 821-826 6 p.

The Roaring Hammock

Ghellal, S., Mussin, N. & Morrison, A. J., 2015, *Mensch und Computer 2015: Proceedings*. Diefenbach, S., Henze, N. & Pielot, M. (eds.). De Gruyter, p. 455-458 4 p. (Mensch & Computer - Tagungsbände/Proceedings, Vol. 2015).

Vibrotactile Vest and The Humming Wall: "I like the hand down my spine"

Morrison, A., Manresa-Yee, C. & Knoche, H., 2015, *Interacción 2015: Proceedings of the XVI International Conference on Human Computer Interaction*. Association for Computing Machinery, 8 p. 3

Design Transformations: teaching design through evaluations

Morrison, A. & Knoche, H., 2 Oct 2014, In : *Kybernetes*. 43, 9/10 , p. 1372-1380

A Vibrotactile Interface to Motivate Movement for Children with Severe to Profound Disabilities

Manresa-Yee, C., Morrison, A., Larsen, J. V. & Varona, J., 10 Sep 2014, *Proceedings of the XV International Conference on Human Computer Interaction (INTERACCION 2014)*. Association for Computing Machinery, 4 p. 10

The Remediation of Nosferatu: Exploring transmedia experiences

Ghellal, S., Morrison, A., Hassenzahl, M. & Schauffler, B., 1 Jan 2014, *Proceedings of the Conference on Designing Interactive Systems: Processes, Practices, Methods, and Techniques, DIS*. Association for Computing Machinery, p. 617-626 10 p.

Exploring the effects of colouring graph diagrams on people of various backgrounds

Plimmer, B., Morrison, A. & Knoche, H., 2014, *Diagrammatic Representation and Inference: 8th International Conference, Diagrams 2014, Melbourne, VIC, Australia, July 28 – August 1, 2014. Proceedings*. Dwyer, T., Purchase, H. & Delaney, A. (eds.). Springer, Vol. 8578. p. 176-189 14 p. (Lecture Notes in Computer Science, Vol. 8578).

Effektlys

Skouboe, E. B., Gade, R., Mullins, M., Jensen, O. B., Jørgensen, A., Madsen, R. K., Andersen, H. J., Moeslund, T. B. & Morrison, A., 24 Dec 2013, 17 p.

Responsive Lighting: "The city becomes alive"

Skouboe, E. B., Morrison, A., Andersen, H. J. & Jensen, O. B., 27 Aug 2013, *Proceedings of the 15th international conference on Human-computer interaction with mobile devices and services (MobileHCI 2013): Human Computer Interaction with Mobile Devices and Services*. New York, USA: Association for Computing Machinery, p. 217-226 10 p.

Aspects of What Makes or Breaks a Museum AR Experience

Madsen, C. B., Madsen, J. B. & Morrison, A., Nov 2012, *IEEE International Symposium on Mixed and Augmented Reality (ISMAR-AMH), 2012: Arts, Media and Humanities Proceedings*. IEEE, p. 91-92 2 p.

NUIs for new worlds: New interaction forms and interfaces for mobile applications in developing countries

Jensen, K. L., Marsden, G., Cutrell, E., Jones, M. & Morrison, A., 1 Sep 2012, *Conference on Human Factors in Computing Systems - Proceedings*. Association for Computing Machinery, p. 2779-2782 4 p.

Playing it Real: Magic Lens and Static Peephole Interfaces for Games in a Public Space

Grubert, J., Morrison, A., Munz, H. & Reitmayr, G., Sep 2012, *MobileHCI '12 Proceedings of the 14th international conference on Human-computer interaction with mobile devices and services*. New York, NY, USA: Association for Computing Machinery, p. 231-240 10 p.

Urban vibrations: Sensitivities in the field with a broad demographic

Morrison, A., Knudsen, L. & Andersen, H. J., Jun 2012, *16th IEEE International Symposium on Wearable Computers: ISWC 2012*. IEEE Computer Society Press, p. 76-79 4 p. (International Symposium on Wearable Computers. Proceedings).

Unlocking good design does not rely on designers alone

Rodil, K., Eskildsen, S., Morrison, A., Rehm, M. & Winschiers-Theophilus, H., May 2012. 6 p.

Modeling vibrotactile detection by logistic regression

Andersen, H. J., Morrison, A. & Knudsen, L., 1 Jan 2012, *Proceedings of the 7th Nordic Conference on Human-Computer Interaction: NordiCHI 2012: Making Sense Through Design - .* Association for Computing Machinery, p. 500-503 4 p.

Design of vibrotactile navigation displays for elderly with memory disorders

Knudsen, L., Morrison, A. & Andersen, H. J., 25 Sep 2011, 6 p.

Methodology for designing, implementing and evaluating assistive mobility technology to enable the social inclusion and independence needs of an ageing population

Morrison, A., Andersen, H. J., Malmborg, L., Hansen, D. W. & Knudsen, L., 25 Sep 2011, 7 p.

Building Sensitising Terms to Understand Free-play in Open-ended Interactive Art Environments

Morrison, A., Viller, S. & Mitchell, P., Sep 2011, *CHI '11 Proceedings of the 2011 annual conference on Human factors in computing systems*. Association for Computing Machinery, p. 2335-2344 10 p.

Collaborative use of mobile augmented reality with paper maps

Morrison, A., Mulloni, A., Lemmelä, S., Oulasvirta, A., Jacucci, G., Peltonen, P., Schmalstieg, D. & Regenbrecht, H., 2011, In : *Computers & Graphics*. 35, 4, p. 789-799 11 p.

Open-ended art environments motivate participation

Morrison, A., Viller, S. & Mitchell, P., 2011, *ACE '11 Proceedings of the 8th International Conference on Advances in Computer Entertainment Technology*. Association for Computing Machinery, p. 45:1-45:8 (ACE '11).

Situated play in open-ended interactive art environments

Morrison, A., Dec 2010

Worlds of information: Designing for engagement at a public multi-touch display

Jacucci, G., Morrison, A., Richard, G. T., Kleimola, J., Peltonen, P., Parisi, L. & Laitinen, T., 1 Sep 2010, *CHI '10 Proceedings of the 28th international conference on Human factors in computing systems*. Association for Computing Machinery, 10 p.

Natural user interfaces: The prospect and challenge of touch and gestural computing

Seow, S. C., Wixon, D., Morrison, A. & Jacucci, G., Sep 2010. 3 p.

Ethnography considered useful: Situating criticality

Morrison, A., Viller, S. & Mitchell, P., 2010, *OZCHI '10 Proceedings of the 22nd Conference of the Computer-Human Interaction Special Interest Group of Australia on Computer-Human Interaction*. Association for Computing Machinery, 4 p.

Ubiquitous media for collocated interaction

Morrison, A., Jacucci, G. & Peltonen, P., 2010, *Shared Encounters*. Willis, K. S., Roussos, G., Chorianopoulos, K. & Struppek, M. (eds.). Springer, p. 23-45 22 p. (Computer Supported Cooperative Work).

Multitouch and surface computing

Seow, S. C., Jacucci, G., Wixon, D., Morrison, A., MacKenzie, S. & Wilson, A., 22 Sep 2009, *Proceedings of the 27th International Conference Extended Abstracts on Human Factors in Computing Systems, CHI 2009*. p. 4767-4769 3 p.

On the role of presence in mixed reality

Wagner, I., Broll, W., McCall, R., Jacucci, G., Morrison, A., Kuutii, K., Schmalstieg, D. & Terrin, J-J., 1 Aug 2009, In : *Presence*. 18, 4, p. 249-276 28 p.

Bodily explorations in space: Social experience of a multimodal art installation

Jacucci, G., Spagnolli, A., Chalambalakis, A., Morrison, A., Liikkanen, L., Roveda, S. & Bertoincini, M., 2009, In : *Lecture Notes in Computer Science*. 5727/2009, p. 62-75 14 p.

Like bees around the hive: a comparative study of a mobile augmented reality map

Morrison, A., Oulasvirta, A., Peltonen, P., Lemmela, S., Jacucci, G., Reitmayr, G., Näsänen, J. & Juustila, A., 2009, *Proceedings of the 27th international conference on Human factors in computing systems*. Association for Computing Machinery, p. 1889-1898 10 p. (CHI '09).

CityWall: Limitations of a Multi-Touch Environment

Morrison, A., Jacucci, G. & Peltonen, P., 2008, *PPD 2008: Workshop on designing multi - touch interaction techniques for coupled public and private display*. 4 p.

Evoking gesture in interactive art

Morrison, A., Mitchell, P. & Viller, S., 2008, *HCC '08 Proceedings of the 3rd ACM international workshop on Human-centered computing*. New York, NY, USA: Association for Computing Machinery, p. 11-18 8 p.

Sustaining Engagement at a Public Urban Display

Morrison, A. & Salovaara, A., 2008, *Proceedings of OZCHI*. Association for Computing Machinery

I don't get out of bed until my PIM tells me to

Viller, S. & Morrison, A., 2007. 4 p.

Talk2Me: engaging interactive installation environments

Morrison, A., 2007, In : *Journal of the Association for Computing Machinery*.

The lens of ludic engagement: evaluating participation in interactive art installations

Morrison, A., Mitchell, P. & Brereton, M., 2007, *Proceedings of the 15th international conference on Multimedia*. Association for Computing Machinery, p. 509-512 4 p. (MULTIMEDIA '07).

Eliciting Audience's Experience to Improve Interactive Art Installation

Baharin, H. & Morrison, A., 2006, *Engage: Creativity and Cognition Conference*. Sydney: Creativity Cognition Studios Press, 10 p.

Talk2Me: the art of augmenting conversations

Morrison, A., Mitchell, P. & Muhlberger, R., 2006, *Proceedings of the 14th annual ACM international conference on Multimedia*. Association for Computing Machinery, p. 197-200 4 p. (MULTIMEDIA '06).

The Pedagogical Practice of Locative Experiences

Morrison, A., McDonald, L., MacColl, I. & Simpson, M., 2006, In : *Leonardo: Journal of the International Society for the Arts, Sciences and Technology*.

Suit keen renovator: alternate reality design

turner, J. & Morrison, A., 2005, *Proceedings of the second Australasian conference on Interactive entertainment*. Creativity Cognition Studios Press, p. 209-213 5 p. (IE 2005).

Research Projects

Urban Vibrations

Morrison, A., Andersen, H. J. & Knudsen, L. L.
01/02/2010 → 31/05/2017

Instant U: Instant Urbanism

Kiib, H. S., Andersson, L., Marling, G., Morrison, A., Kirkegaard, P. H., Marie Bruun Jespersen, L., Parigi, D., Worre Foged, I., Olsen, T. V., Skouboe, E. B., Sabra, J. B. S. & Pedersen, S. B.
01/04/2013 → ...

CultAR: Culturally Enhanced Augmented Realities

Morrison, A., Andersen, H. J., Overholt, D., Jensen, W. & Leegaard, J. H.
01/01/2013 → 31/12/2015

Activities and Running Workshops

Scandic Augmented Reality

Ann Morrison (Organizer)
8 Dec 2011 → 9 Dec 2011

Member Art & Technology Study Board (External organisation)

Ann Morrison (Member)
2011 → 2016

ISEA

Ann Morrison (Participant)
Aug 2015

Humming Wall and Sensate Vest: Field trials, Utzon Park

Ann Morrison (Other)
1 Jan 2013 → 31 Dec 2015

Assessor: The Australian Research Council (ARC) National Competitive Grants Program (External organisation)

Ann Morrison (Member)
19 Sep 2013 → 19 Sep 2016

Assessor: FWO Interdisciplinary (Research Foundation Flanders) (External organisation)

Ann Morrison (Member)
Feb 2013 → 2019

Assesor: BRAIN-be: Belgian Research Action Through Interdisciplinary Networks (External organisation)

Ann Morrison (Member)

Mar 2013 → Feb 2016

ACM SIGCHI Conference on Human Factors in Computing Systems

Ann Morrison (Organizer)

6 May 2012

ACM Multimedia Conference for 2015

Ann Morrison (Organizer)

21 Oct 2014 → 30 Nov 2015