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## Research

### Introduction

Per-Olof Hedvall works as Director of Certec, Department of Design Sciences, Lund University, Sweden. His research deals with accessibility, participation, and universal design, with a particular interest in the interplay between people and technology. Working closely with the disability movement, he focuses on people's lived perspectives and how human and artefactual aspects of products, services, and environments can be designed to support people in fulfilling their needs, wishes, and dreams. Hedvall has a background in computer engineering and has a particular interest in people's empowerment and opportunities for participation in their lives.

Per-Olof Hedvall often bases his work on Cultural-Historical Activity Theory. In 2009, Hedvall defended his doctoral dissertation in Rehabilitation Engineering and Design, "The Activity Diamond – Modelling an Enhanced Accessibility", where he developed a model for planned, lived, and long-term aspects of accessibility, as a prerequisite for participation.

### Current research focus: Universal Design, Equity and Categorisation

*For the past 10 years, I have mainly concentrated on trying to contribute to the development and emergence of universal design in Sweden and internationally. I am interested in how it is possible to create designs that do not discriminate against people and that do not lead to inequality and stigma.*

*My current research is about categorisation and how categorisation creates similarities and differences between people. The design of products and environments often places people in compartments such as "man", "woman", "person with a disability", "person without a disability", "children", "elderly", and so on. I think it is interesting how categorisation takes place and what stories it creates/enables.*

*There is a strong force in design, which can be used to open up opportunities, but also to close them. Sometimes exclusionary design takes place completely intentionally, as in the introduction of reclining benches on which it is impossible to sleep, but in most cases, exclusion takes place unintentionally. Therefore, it is important to actively work with knowledge and awareness of socially sustainable design that brings people together and enriches society.*

*On a more general level, I am interested in who may and may not exist in today's society and how it is possible to create conditions so that all people can participate in and contribute to society. The stories we tell about each other when designing influence the stories about:*

*Who you can be  
and who you can become.*

I also have a personal website where I write about things that are on my mind and share photos, images and other material. Read more at: <https://www.peohedvall.com/>.

## Employment

### Senior lecturer

Certec - Rehabilitation Engineering and Design  
Lund University

Lund, Sweden  
2006 Jan 16 → present

## **CIRCLE**

Lund University  
Lund, Sweden  
2023 Nov 16 → present

## **Senior lecturer**

Ergonomics and Aerosol Technology  
Lund University  
Lund, Sweden  
2024 Feb 28 → present

## **Guest researcher**

Mid Sweden University  
Sundsvall, Sweden  
2018 Jan 1 → present

## **Research outputs**

- No one left behind: A universal design analysis of ship evacuation**  
Bram, S., Burgén, J., Dederichs, A. S. & Hedvall, P. O., 2025 Feb, In: Applied Ergonomics. 123, 104406.  
Research output: Contribution to journal › Article › peer-review
- Synergistical assistance - combining artefactual and human assistive resources to reach desired outcomes**  
Rydeman, B., Eklöf, L., Egard, H. & Hedvall, P.-O., 2025 Jan 4, In: Disability and rehabilitation. Assistive technology. p. 1-12 12 p.  
Research output: Contribution to journal › Article › peer-review
- Between consultation and partnership: participation styles in Swedish urban revitalization processes involving disabled people**  
Erdtman, E., Müller, L. & Hedvall, P.-O., 2024 Jul 29, In: Journal of Urban Design. 17 p.  
Research output: Contribution to journal › Article › peer-review
- Difference: sketching, visualising and challenging Universal Design in Sweden**  
Hedvall, P.-O. (Editor) & Ericsson, S. (Editor), 2024 Jun 19, In: Design for All, India. 19, 6 (June), p. 2-197 197 p.  
Research output: Contribution to journal › Special Issue (editor)
- Disablised or Ablised?: Linguistic Categorisations of Dis/ability in Swedish Print Media Over Time**  
Wojahn, D., Ericsson, S. & Hedvall, P.-O., 2024 Dec 13, In: Disability Studies Quarterly. 44, 1  
Research output: Contribution to journal › Article › peer-review
- From inclusive to nonclusive design: a shift in categorisation**  
Hedvall, P.-O. & Ericsson, S., 2024 Jun 19, In: Design for All, India. 19, 6 (June), p. 10-29 20 p., 1.  
Research output: Contribution to journal › Article
- Gendered Sustainability: Are Public Spaces Designed for Girls Good for Everyone? Examining Female Participation as a Strategy for Inclusive Public Space**  
Sandström, I., Ericsson, S. & Hedvall, P.-O., 2024 Mar 15, In: Cities. 149, 104906.  
Research output: Contribution to journal › Article › peer-review
- Is the city planned and built for me? citizens' experiences of inclusion, exclusion and (un)equal living conditions in the built environment**  
Müller, L., Erdtman, E. & Hedvall, P. O., 2024 May 11, In: Journal of Accessibility and Design for All. 14, 1, p. 32-51 20 p.  
Research output: Contribution to journal › Article › peer-review
- Prerequisites for digital participation: the case of digital health technology and people with impairments**  
Johansson, S., Hedvall, P. O., Gulliksen, J., von Koch, L. & Gustavsson, C., 2024 May 31, *The Routledge international handbook of disability and global health*. Ned, L., Rivas Velarde, M., Singh, S., Swartz, L. & Soldatić, K. (eds.). Taylor & Francis, p. 552-564 13 p.  
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Research › peer-review
- Situation, non-categorisation and variation: conveying nonclusion through text and image**  
Ericsson, S. & Hedvall, P.-O., 2024 Jun 19, In: Design for All, India. 19, 6 (June), p. 30-51 22 p., 2.  
Research output: Contribution to journal › Article

11. **Teaching Universal Design: key content and course design**  
Göransson, K., Hedvall, P.-O., Hellström, J. & Becker, M., 2024 Jun 19, In: Design for All, India. 19, 6 (June), p. 91-112 22 p., 5.  
Research output: Contribution to journal › Article
12. **The problem with "inclusion"? it is done to someone by someone**  
Hedvall, P. O. & Ericsson, S., 2024 Nov 18, *Universal Design 2024: Shaping a Sustainable, Equitable and Resilient Future for All - Proceedings of the 7th International Conference on Universal Design, UD 2024*. Fuglerud, K. S., Fuglerud, K. S., Leister, W. V. & Vidal, J. C. T. (eds.). IOS Press, p. 18-25 8 p. (Studies in Health Technology and Informatics; vol. 320).  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
13. **The struggle for access: a qualitative document study of how people using wheeled mobility devices experience exclusion and discrimination**  
Pettersson, C., Baudin, K. & Hedvall, P.-O., 2024, In: Disability and rehabilitation. Assistive technology. 19, 3, p. 537-545 9 p.  
Research output: Contribution to journal › Article › peer-review
14. **Towards Equity and Universal Design in Pelvic Floor Care - Patient Experiences After Birth**  
Sahin-Haglund, S., Turkmen, S. & Hedvall, P.-O., 2024 Nov 18, *Proceedings of the Seventh International Conference on Universal Design (UD2024), Oslo, Norway, 20-22 November 2024*. IOS Press, Vol. 320. p. 125-132 8 p. (Studies in Health Technology and Informatics).  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
15. **Universal design: visualising diversity, two low hanging fruits**  
Magnusson, C., Müller, L., Sandström, I. & Hedvall, P.-O., 2024 Jun 19, In: Design for All, India. 19, 6, p. 113-129 17 p., 6.  
Research output: Contribution to journal › Article
16. **Universal Design and accessibility as an act or a state: a comparison of policies in Norway, Sweden, and Denmark**  
Grangaard, S., Hedvall, P. O. & Lid, I. M., 2024 Nov 18, *Universal Design 2024: Shaping a Sustainable, Equitable and Resilient Future for All - Proceedings of the 7th International Conference on Universal Design, UD 2024*. Fuglerud, K. S., Fuglerud, K. S., Leister, W. V. & Vidal, J. C. T. (eds.). IOS Press, p. 2-9 8 p. (Studies in Health Technology and Informatics; vol. 320).  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
17. **Activism online: exploring how crises are communicated visually in activism campaigns**  
Fagerholm, A.-S., Göransson, K., Thompson, L. M. & Hedvall, P.-O., 2023, In: Journal of Contingencies and Crisis Management. 31, 4, p. 1034-1043 10 p.  
Research output: Contribution to journal › Article › peer-review
18. **Co-designing with extreme users: a framework for user participation in design processes**  
Johansson, S., Hedvall, P. O., Larsdotter, M., Larsson, T. P. & Gustavsson, C., 2023 Dec 14, In: Scandinavian Journal of Disability Research. 25, 1, p. 418-430 13 p.  
Research output: Contribution to journal › Article › peer-review
19. **What a waste – A norm-critical design study on how waste is understood and managed**  
Fagerholm, A. S., Haller, H., Warell, A. & Hedvall, P. O., 2023 Nov, In: Resources, Conservation and Recycling Advances. 19, 200178.  
Research output: Contribution to journal › Article › peer-review
20. **Framväxten av universell utformning – en kulturomdaning**  
Hedvall, P.-O., 2022 Jan 20, *Kunskap för framgångsrik inkludering*. Lärandeforum UUA, p. 8-15 8 p.  
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Research
21. **Let's move beyond word battles and separatism: Strategies and concerns regarding Universal Design in Sweden**  
Erdtman, E., Rassmus-Gröhn, K. & Hedvall, P.-O., 2022 Mar 28, In: Equality, Diversity and Inclusion. 41, 9, p. 15-29  
Research output: Contribution to journal › Article › peer-review
22. **Moving Beyond Human Bodies on Display: Signs of a Shift in Categorisation**  
Hedvall, P.-O., Johansson, S. & Ericsson, S., 2022 Dec 2, *DAI - Il Disegno per l'Accessibilità e l'Inclusione*. Milano: Publica, p. 48-59 12 p.  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
23. **Planning for human diversity: design patterns of Universal Design**  
Müller, L., Wojahn, D., Sandström, I. & Hedvall, P.-O., 2022 Dec 28, In: Nordic Journal of Architectural Research. 34, 2, p. 75-104 29 p.  
Research output: Contribution to journal › Article › peer-review
24. **Tillgänglighet, användbarhet och universell utformning**  
Hedvall, P.-O., Ståhl, A. & Iwarsson, S., 2022 Aug 18, *Participation: vad, när, hur*. Denvall, V. & Iwarsson, S. (eds.). 1 ed. Lund: Studentlitteratur AB, p. 151-182 31 p.  
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Research › peer-review

25. **Towards 3rd generation universal design: exploring nonclusive design**  
Hedvall, P.-O., Price, M., Keller, J. & Ericsson, S., 2022 Sept 2, In: Studies in Health Technology and Informatics. 297, p. 85-92 8 p.  
Research output: Contribution to journal › Article › peer-review
26. **Visions of a City for All: Resources, Choices and Factors Supporting and Impeding Universal Design in the Urban Development Process**  
Müller, L., Ericsson, S. & Hedvall, P.-O., 2022 Jun 27, In: The Journal of Public Space. 7, 2, p. 63-78 16 p.  
Research output: Contribution to journal › Article › peer-review
27. **What a Waste: a norm-critical study on how waste is understood and managed through integrating perspectives**  
Fagerholm, A.-S., Göransson, K., Haller, H. & Hedvall, P.-O., 2022, p. 252-253.  
Research output: Contribution to conference › Abstract › peer-review
28. **Categorisations Impeding and Supporting Universal Design**  
Hedvall, P.-O., Wojahn, D., Müller, L. & Ericsson, S., 2021.  
Research output: Contribution to conference › Abstract › peer-review
29. **Feeling controlled or being in control? Apps for self-management among older people with neurological disability**  
Winberg, C., Kylberg, M., Pettersson, C., Harnett, T., Hedvall, P.-O., Mattsson, T. & Månsson Lexell, E., 2021, In: Disability and Rehabilitation: Assistive Technology. 16, 6, p. 603-608 6 p.  
Research output: Contribution to journal › Article › peer-review
30. **Introducing Norm Creative Perspectives in Engineering and Design Educations**  
Hedvall, P.-O. & Mattsson, P., 2021 Dec 9. 3 p.  
Research output: Contribution to conference › Paper, not in proceeding › peer-review
31. **The dis/ablement of bodies in semiotic landscapes – a citizen science approach**  
Ericsson, S., Wojahn, D., Müller, L. & Hedvall, P.-O., 2021.  
Research output: Contribution to conference › Abstract › peer-review
32. **"Tur att jag inte blev omprövad i år": samtal om ett villkorat liv med personlig assistans**  
Egard, H. & Hedvall, P.-O., 2021 May 6, In: Nordisk välfärdsforskning / Nordic Welfare Research. 6, 1, p. 20 31 p.  
Research output: Contribution to journal › Article › peer-review
33. **Universal Design as Guiding, Striving and Unifying: A Qualitative Study About how Universal Design is understood, practiced and realised in contemporary Sweden**  
Erdtman, E., Rasmus-Gröhn, K. & Hedvall, P.-O., 2021 Jun 28, In: Scandinavian Journal of Disability Research. 23, 1, p. 158-168  
Research output: Contribution to journal › Article › peer-review
34. **Young, Mobile, and Highly Educated Cyclists: How Urban Planning and Policy Dis/able Users**  
Müller, L., Ericsson, S., Wojahn, D. & Hedvall, P.-O., 2021 Apr 16, In: Scandinavian Journal of Disability Research. 23, 1, p. 124-135 12 p.  
Research output: Contribution to journal › Article › peer-review
35. **Language that Supports Sustainable Development: How to Write about People in Universal Design Policy**  
Ericsson, S., Wojahn, D., Sandström, I. & Hedvall, P.-O., 2020 Nov 17, In: Sustainability. 12, 22, p. 1-20 20 p., 9561.  
Research output: Contribution to journal › Article › peer-review
36. **Universell utformning – Hur designar vi ett samhälle för alla?**  
Hedvall, P.-O., 2020, *Med människan i fokus: En uppföljning av Politik för gestaltad livsmiljö 2020 och medskick inför framtida arbete*. ArkDes, p. 68-73 5 p.  
Research output: Chapter in Book/Report/Conference proceeding › Chapter in Report › Popular science
37. **Dynamic multimodal drawing in school: Exploring technology support of drawing skills development in children with visual impairments**  
Szymczak, D., Rasmus-Gröhn, K., Hedvall, P. O. & Magnusson, C., 2019, In: Technology and Disability. 31, 3, p. 83-99 17 p.  
Research output: Contribution to journal › Article › peer-review
38. **Universell utformning – ett diskussionsunderlag**  
Hedvall, P.-O., 2019, *SOU 2019:23 Betänkande av Styretredningen för funktionshinderspolitiken*. SOU (Sveriges Offentliga Utredningar), p. 287-300 13 p. (Statens Offentliga Utredningar : SOU; vol. 2019, no. 23).  
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Popular science
39. **Bringing human diversity into design processes through empathic modelling**  
Lorentzen, L. & Hedvall, P. O., 2018, *Transforming our World Through Design, Diversity and Education - Proceedings of Universal Design and Higher Education in Transformation Congress 2018*. Craddock, G., Doran, C., McNutt, L. & Rice, D. (eds.). IOS Press, p. 128-136 9 p. (Studies in Health Technology and Informatics; vol. 256).  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
40. **Co-Constructing Universal Design in Citizen Science Workshops**  
Hedvall, P. O., Rydeman, B., Granholm, S. & Andersson, M., 2018, *ransforming our World Through Design, Diversity and Education*. IOP Publishing, Vol. 256. p. 214-222 9 p. (Studies in Health Technology and Informatics).  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

41. **Design for me?**  
Magnusson, C., Hedvall, P. O. & Breidegard, B., 2018 Jan 1, *Computers Helping People with Special Needs - 16th International Conference, ICCHP 2018, Proceedings*. Springer, p. 93-99 7 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 10896 LNCS).  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
42. **How can we make teaching more inclusive?**  
Rydeman, B., Efring, H. & Hedvall, P.-O., 2018, *10:e Pedagogiska Inspirationskonferensen*. Lund University, (Pedagogiska inspirationskonferensen LTH; vol. 10).  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
43. **Recognizing diversity within everyone's lived experience: Strengthening the theoretical foundations of Universal Design**  
Hedvall, P.-O., McArthur, J. & Cranmer, S., 2018, p. 104-105.  
Research output: Contribution to conference › Abstract › peer-review
44. **Stroke and universal design**  
Magnusson, C., Anastassova, M., Paneels, S., Rasmus-Gröhn, K., Rydeman, B., Randall, G., Ortiz Fernandez, L., Bouilland, S., Payer, J. & Hedvall, P. O., 2018, *Transforming our World Through Design, Diversity and Education - Proceedings of Universal Design and Higher Education in Transformation Congress 2018*. Craddock, G., Doran, C., McNutt, L. & Rice, D. (eds.). IOS Press, p. 854-861 8 p. (Studies in Health Technology and Informatics; vol. 256).  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
45. **Towards a More Inclusive University - Supporting Teachers Through Universal Design for Learning**  
Rydeman, B., Efring, H. & Hedvall, P. O., 2018, *Transforming our World Through Design, Diversity and Education*. IOP Publishing, Vol. 256. p. 98-106 9 p. (Studies in Health Technology and Informatics).  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
46. **Co-designing together with persons with visual impairments**  
Magnusson, C., Hedvall, P. O. & Caltenco, H., 2017 Aug 20, *Mobility of Visually Impaired People: Fundamentals and ICT Assistive Technologies*. Springer International Publishing, p. 411-434 24 p.  
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Research › peer-review
47. **Delaktighetsforskning och funktionshinder: Kartläggning av kunskapsläge och forskningsbehov med särskilt fokus på teknik- och designperspektiv**  
Hedvall, P.-O., 2017 Sept 4, 23 ed. <http://www.mfd.se/stod-och-verktyg/publikationer/rapporter/rapporter-2017/delaktighetsforskning-och-funktionshinder/>: Myndigheten för Delaktighet. 130 p.  
Research output: Book/Report › Report › Research
48. **The Use of Apps for Health in Persons with Multiple Sclerosis, Parkinson's Disease and Stroke - Barriers and Facilitators**  
Winberg, C., Kylberg, M., Pettersson, C., Harnett, T., Hedvall, P. O., Mattsson, T. & Månsson Lexell, E., 2017, *Harnessing the Power of Technology to Improve Lives*. IOS Press, Vol. 242. p. 638-641 4 p. (Studies in Health Technology and Informatics; vol. 242).  
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Research › peer-review
49. **Eliciting parents' individual requirements for an inclusive digital school system**  
Efring, H., Rasmus-Gröhn, K. & Hedvall, P. O., 2016, *Universal Design 2016: Learning from the Past, Designing for the Future - Proceedings of the 3rd International Conference on Universal Design, UD 2016*. IOS Press, Vol. 229. p. 211-221 11 p. (Studies in Health Technology and Informatics; vol. 229).  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
50. **Användarmedverkan – att delta i designprocesser**  
Magnusson, C. & Hedvall, P.-O., 2015, *Att arbeta med delaktighet inom habilitering*. Hansson, K. & Nordmark, E. (eds.). Studentlitteratur AB  
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Research › peer-review
51. **Att så vidare 25**  
Hedvall, P.-O. & Jönsson, B., 2015, Certec, Lund University. (Internrapport CERTEC, LTH; vol. 2015, no. 1)  
Research output: Book/Report › Report › Popular science
52. **Demo Hour**  
Fortmann, J., Müller, H., Heuten, W., Boll, S., Kangas, J., Akkil, D., Rantala, J., Isokoski, P., Majaranta, P., Raisamo, R., Orlov, P. A., Bednarik, R., Caltenco, H., Larsen, H. S. & Hedvall, P.-O., 2015, In: *Interactions*. 22, 1, January + February 2015, p. 6-9  
Research output: Contribution to journal › Article › peer-review
53. **Empowerment and participation through online photo diaries for children and adults with intellectual disabilities**  
Rydeman, B. & Hedvall, P.-O., 2015.  
Research output: Contribution to conference › Abstract › peer-review
54. **Opportunities and challenges in everyday life - a participatory study exploring strategies used by three adults with ADHD**  
Eklöf, L., Boman, I.-L. & Hedvall, P.-O., 2015.  
Research output: Contribution to conference › Abstract › peer-review

55. **Technical aids and human assistance as integrated in the social construction of self**  
Egard, H., Eklöf, L., Hedvall, P.-O. & Rydeman, B., 2015.  
Research output: Contribution to conference › Abstract › peer-review
56. **Towards motive- oriented technical and human assistance – a study of how combinations of technology and people support individuals in their lives**  
Hedvall, P.-O., Egard, H., Eklöf, L. & Rydeman, B., 2015.  
Research output: Contribution to conference › Abstract › peer-review
57. **I Have Never Been Universal**  
Hedvall, P.-O., 2014, *Trends in Universal Design*.  
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Popular science
58. **Shared experiences through online photo diaries**  
Rydeman, B. & Hedvall, P.-O., 2014.  
Research output: Contribution to conference › Paper, not in proceeding › peer-review
59. **Universal Design 2014: Three Days of Creativity and Diversity**  
Caltenco, H. (Editor), Hedvall, P.-O. (Editor), Larsson, A. (Editor), Rasmus-Gröhn, K. (Editor) & Rydeman, B. (Editor), 2014, IOS Press. (Assistive Technology Research Series)  
Research output: Book/Report › Conference proceeding (editor) › peer-review
60. **Activity Perspectives on VOCA-Mediated Conversations**  
Rydeman, B. & Hedvall, P.-O., 2013, *Aided Communication in Everyday Interaction*. Norén, N., Samuelsson, C. & Plejert, C. (eds.). J&R Press  
Research output: Chapter in Book/Report/Conference proceeding › Book chapter › Research › peer-review
61. **Co-Exploring Everyday Life of Adults with ADHD**  
Eklöf, L., Boman, I.-L. & Hedvall, P.-O., 2013, *Assistive Technology Research Series*. IOS Press, Vol. 33. p. 622-627 6 p.  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
62. **Inclusion Through Design - Engaging Children with Disabilities in Development of Multi-Sensory Environments**  
Hedvall, P.-O., Larsen, H. S. & Caltenco, H., 2013, *Assistive Technology Research Series*. IOS Press, Vol. 33. p. 628-633 6 p.  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
63. **Interaction and Mediation in Multi Sensory Environments**  
Hedvall, P.-O., Larsen, H. S. & Caltenco, H., 2013.  
Research output: Contribution to conference › Abstract › peer-review
64. **Actors in AAC Activities**  
Hedvall, P.-O., 2012.  
Research output: Contribution to conference › Abstract
65. **A Real-World Study of an Audio-Tactile Tourist Guide**  
Szymczak, D., Rasmus-Gröhn, K., Magnusson, C. & Hedvall, P.-O., 2012, *Proceedings of the 14th international conference on Human-computer interaction with mobile devices and services*. Association for Computing Machinery (ACM), p. 335-344 10 p.  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
66. **Bridging children's contexts with online photo diaries**  
Rydeman, B. & Hedvall, P.-O., 2012.  
Research output: Contribution to conference › Paper, not in proceeding › peer-review
67. **Bringing the Mobile Context into Industrial Design and Development**  
Magnusson, C., Larsson, A., Warell, A., Efring, H. & Hedvall, P.-O., 2012, *NordiCHI 2012 Proceedings of the 7th Nordic Conference on Human-Computer Interaction: Making Sense Through Design*. Association for Computing Machinery (ACM), p. 149-152 4 p.  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
68. **Demonstration of an Audio-tactile Tourist Guide**  
Szymczak, D., Rasmus-Gröhn, K., Magnusson, C. & Hedvall, P.-O., 2012, *MobileHCI '12 Proceedings of the 14th international conference on Human-computer interaction with mobile devices and services companion*. Association for Computing Machinery (ACM), p. 151-152  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
69. **Enhancing Multisensory Environments with Design Artifacts for Tangible Interaction**  
Caltenco, H., Larsen, H. S. & Hedvall, P.-O., 2012, *International Workshop on Haptic and Audio Interaction Design*. p. 45-47 3 p.  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review
70. **Ideation and ability: When actions speak louder than words**  
Larsen, H. S. & Hedvall, P.-O., 2012, *ACM DL PDC '12 Proceedings of the 12th Participatory Design Conference: Exploratory Papers, Workshop Descriptions, Industry Cases*. Simonsen, J. & Halskov, K. (eds.). Association for Computing Machinery (ACM), Vol. Volume 2. p. 37-40 4 p.  
Research output: Chapter in Book/Report/Conference proceeding › Paper in conference proceeding › peer-review

71. **Mobility and modality - perceptualization in situated activities**  
Rydeman, B. & Hedvall, P.-O., 2012.  
Research output: Contribution to conference › Paper, not in proceeding › peer-review
72. **Motivation, Peer Learning and Feedback in Flexible Learning**  
Larsson, A., Rydeman, B. & Hedvall, P.-O., 2012. 4 p.  
Research output: Contribution to conference › Paper, not in proceeding › peer-review
73. **Navigating the world and learning to like it - mobility training through a pervasive game**  
Magnusson, C., Waern, A., Rasmus-Gröhn, K., Bjernryd, Å., Bernhardsson, H., Jakobsson, A., Salo, J., Wallon, M. & Hedvall, P.-O., 2011, *Proceedings of the 13th International Conference on Human Computer Interaction with Mobile Devices and Services*. Association for Computing Machinery (ACM), p. 285-294 10 p.  
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