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Publikationer

Creative Applications for Socially Assistive Robots to Support Mental-Health: A Human-Centered Feasibility Study
Jochum, E. & Hansen, A. K., 2024, (Under udarbejdelse) *16th International Conference on Social Robotics + AI*. Lecture Notes in Artificial Intelligence series: Springer Publishing Company, 15 s.

Strategies for strengthening UX competencies and cultivating corporate UX in a large organisation developing robots
Nielsen, S., Ordoñez, R., Skov, M. B. & Jochum, E., 2024, I: Behaviour and Information Technology. 29 s.

Moving Together - benefits of an online dance program on physical and mental health for older adults: a mixed-method study
Hansen, R. K., Jochum, E., Egholm, D., Villumsen, M. & Hirata, R. P., 1 nov. 2023, Research Square Platform LLC, 31 s.

Moving together: Effect of a 12-week online dance training intervention on static and dynamic postural stability and gait speed in older adults. A pre-post intervention study
Hansen, R. K., Jochum, E., Egholm, D., Villumsen, M. & Hirata, R. P., 1 nov. 2023, medRxiv, 24 s.

Drawing Robots for Rehabilitation

Jochum, E., Hansen, A. K. & Murphrey, T. D., 2023, (Afsendt) *Ergonomics in Robotics: Advances and Innovations (ERGOROB)*. Springer

Soft Robotics Workshops: Supporting Experiential Learning About Design, Movement, and Sustainability
Horvath, A-S., Jochum, E., Löchtefeld, M., Vissonova, K. & Merritt, T. R., 2023, *Cultural Robotics: Social Robots and Their Emergent Cultural Ecologies*. Dunstan, B. J., Koh, J. T. K. V., Turnbull Tillman, D. & Brown, S. A. (red.). Springer, s. 189-218 30 s. (Springer Series on Cultural Computing).

Thinking Beyond the Human: Design Approaches for Robots and AI in Opera
Jochum, E., 2023, (Accepteret/In press) I: CONCEPT Academic Journal. 24 s.

Weaving Hybrid Futures: Sustainability in Higher Education with PBL Through Art, Science, and Robotics
Horvath, A-S., Beloff, L., Bertel, L. B., Boros, J., Sarahuja, L., Fricker, P., Hamidi, F., Hanczyc, M. M., Jochum, E., Löchtefeld, M., Merritt, T. R. & Vissonova, K., 2023, I: Journal of Problem Based Learning in Higher Education. 11, 2, s. I-VII 7 s.

Dance and Movement-Led Research for Designing and Evaluating Wearable Human-Computer Interfaces
Otterbein, R., Jochum, E., Overholt, D., Bai, S. & Dalsgaard, A., 22 jun. 2022, *Proceedings of 2022 8th International Conference on Movement and Computing, MOCO 2022: MOCO 2022*. Chicago, IL. USA: Association for Computing Machinery, 14 s. 9. (ACM International Conference Proceeding Series, Bind Par F180475).

Preface

Carlson, K., Jochum, E., Rajko, J., Dahl, L., Corness, G., Imus, S. & Toenjes, J., 22 jun. 2022, I: ACM International Conference Proceeding Series. Par F180475, s. III-IV

Editorial: The Art of Human-Robot Interaction: Creative Perspectives From Design and the Arts
Heath, D., Jochum, E. & St-Onge, D., 7 jun. 2022, I: *Frontiers in Robotics and AI*. 9, 910253.

Reduced Physical Activity Levels In Community-Dwelling Older Adults In Denmark During The Covid-19 Pandemic
Thomsen, M. J., Liston, M., Jochum, E., Villumsen, M. & Hirata, R. P., 8 sep. 2021.

The Robot is Present: Creative Approaches for Artistic Expression With Robots
Cubero, C. G., Pekarik, M., Rizzo, V. & Jochum, E., 29 jul. 2021, I: *Frontiers in Robotics and AI*. 8, s. 1-19 19 s., 662249.

Decolonizing the Machine: Race, Gender and Disability in Robots and Algorithmic Art

Abramovic, B., Coleman, G., Donnarumma, M., Jochum, E. & Schoux Casey, C., 2021, *Proceedings of Politics of the Machines - Rogue Research 2021 (POM 2021)*. Christensen, M. & Conradi, F. (red.). British Computer Society, s. 3-13

Is a soft robot more "natural"? Exploring the perception of soft robotics in human-robot interaction

Jørgensen, J., Borup Bojesen, K. & Jochum, E., 2021, I: *International Journal of Social Robotics*. 14, s. 95-113

RODECA: A Canvas for Designing Robots

Nielsen, S., Ordoñez, R., Hansen, K. D., Skov, M. B. & Jochum, E., 2021, *HRI 2021 - Companion of the 2021 ACM/IEEE International Conference on Human-Robot Interaction*. Association for Computing Machinery, s. 266-270 5 s. 3447173

Arts + Health: New Approaches to Arts and Robots in Health Care

Herath, D., MacFarlane, J., Jochum, E., Busby Grant, J. & Tresset, P., mar. 2020, *HRI 2020 - Companion of the 2020 ACM/IEEE International Conference on Human-Robot Interaction*. Association for Computing Machinery, s. 1-7 7 s. (ACM/IEEE International Conference on Human-Robot Interaction).

I Like the Way You Move: A mixed-methods approach for studying the effects of robot motion on collaborative human robot interaction

Pedersen, J. E., Christensen, K. W., Heath, D. & Jochum, E., 2020, *International Conference on Social Robotics*. Springer, s. 73-84 12 s. (Lecture Notes in Computer Science, Bind 12483).

On the Importance of Posture and the Interaction Environment: Exploring Agency, Animacy and Presence in the Lab vs Wild Using Mixed-Methods

Hansen, A. K., Nilsson, J., Jochum, E. & Heath, D., 2020, s. 227-229. 3 s.

Towards Creative Applications for Socially Assistive Robots

Hansen, A. K., Duna, C., Sandu, C. & Jochum, E., 2020, s. 3.

Tonight We Improvise! Real-time tracking for human-robot improvisational dance

Jochum, E. & Derkx, J., okt. 2019, *MOCO '19: Proceedings of the 6th International Conference on Movement and Computing*. Association for Computing Machinery, 11 s. 7

Review: The Robotic Imaginary: The Human and the Price of Dehumanized Labor

Jochum, E., 1 jun. 2019, I: *Screen Bodies*. 4, 1, s. 103-113

The Helpless Soft Robot - Stimulating Human Collaboration Through Robotic Movement

Milthers, A. D. B., Bjerre Hammer, A., Jung Johansen, J., Jensen, L. G., Jochum, E. A. & Löchtefeld, M., 2 maj 2019, *CHI EA 2019 - Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems*. New York, NY, USA: Association for Computing Machinery, 6 s. LBW2421

Designing for Inclusive AI

Jochum, E. & Schoux Casey, C., 2019. 1 s.

An Experimental Study of Embodied Interaction and Human Perception of Social Presence for Interactive Robots in Public Settings

Heath, D., Jochum, E. A. & Vlachos, E., dec. 2018, I: *IEEE Transactions on Cognitive and Developmental Systems*. 10, 4, s. 1096-1105 10 s., 8240698.

HEAT: The Harmony Exoskeleton Self - Assessment Test

Vlachos, E., Jochum, E. A. & Demers, L-P., 6 nov. 2018, *2018 27th IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)*. IEEE, s. 577-582 6 s. 8525775. (IEEE RO-MAN proceedings).

Becoming Cyborg: Interdisciplinary approaches for exoskeleton research

Jochum, E. A., Demers, L-P., Vorn, B., Vlachos, E., Mcilvenny, P. B. & Raudaskoski, P. L., 17 maj 2018, *EVA Copenhagen 2018 - Politics of the Machines - Art and After*. British Computer Society, s. 1-9 40. (Electronic Workshops in Computing; Nr. 2018, Bind EVA Copenhagen).

A Proposed Wizard of OZ Architecture for a Human-Robot Collaborative Drawing Task

Hinwood, D., Ireland, J., Jochum, E. A. & Heath, D., 2018, *ICR 2018 : Social Robotics: Proceedings of the International Conference on Social Robotics*. Ge, S. S., Cabibihan, J-J., Salichs, M. A., Broadbent, E., He, H., Wagner, A. R. & Castro-González, Á. (red.). Springer, s. 35-44 (Lecture Notes in Computer Science, Bind 11357).

Editorial - Integrating Academic and Artistic Methodologies within a PBL-environment

Heinrich, F. & Jochum, E. A., 2018, I: *Journal of Problem Based Learning in Higher Education*. 6, 1, s. I-V

Computation as Medium: Agency and Motion in Interactive Art

Jochum, E. A. & Putnam, L., dec. 2017, I: *Akademisk Kvarter*. 16, s. 9-21 12 s.

Sequence and Chance: Design and control methods for entertainment robots

Jochum, E. A., Millar, P. & Nuñez, D., 2017, I: *Robotics and Autonomous Systems*. 87, January, s. 372-380 8 s.

Robot Choreography: Performance Paradigms for Experimental HRI Setups

Jochum, E. A. & Heath, D., 17 okt. 2016, *Proceedings of Robophilosophy/TRANSOR 2016*. IOS Press, s. 86-88

Using theatre to study interaction with care robots

Jochum, E. A., Vlachos, E., Christoffersen, A., Grindsted Nielsen, S., Hameed, I. & Tan, Z-H., 30 jun. 2016, I: *International Journal of Social Robotics*. 8, 4, s. 457-470

Cultivating the Uncanny: The Telegarden and Other Oddities

Jochum, E. & Goldberg, K., 2016, *Robots and Art: Exploring an Unlikely Symbiosis*. Kroos, C., Herath, D. & S. (red.). Springer, s. 149-175 26 s. (Cognitive Science and Technology).

Head Orientation Behavior of Users and Durations in Playful Open-Ended Interactions with an Android Robot

Vlachos, E., Jochum, E. A. & Schärfe, H., 2016, *Cultural Robotics: First International Workshop, CR 2015, Held as Part of IEEE RO-MAN 2015, Kobe, Japan, August 31, 2015. Revised Selected Papers*. 1. udg. Springer, s. 67-77 11 s. (Lecture Notes In Artificial Intelligence, Bind 9549).

Techno-Animal Effigies: Robots and Telepresence in Non-Human Performance

Jochum, E. A., 2016.

The Effects of Exposure to Different Social Robots on Attitudes toward Preferences

Vlachos, E., Jochum, E. A. & Demers, L-P., 2016, I: *Interaction Studies: Social Behaviour and Communication in Biological and Artificial Systems*. 17, 3, s. 390-404 14 s.

Robot Aesthetics: Practice-Based Research in Robotic Art and Performance
Jochum, E. A. & Putnam, L. J., 2015. 2 s.

Robot Futures: Using Theatre to Influence Acceptance of Care Robots
Christoffersen, A., Grindsted Nielsen, S., Jochum, E. A. & Tan, Z-H., 2015. 2 s.

Robots and Art: Interactive Art and Robotics Education Program in the Humanities
Jochum, E. A. & Putnam, L. J., 2015, *The 3rd AAU Workshop on Robotics: Proceedings*. Tan, Z-H., Bai, S., Bak, T., Rehm, M. & Jochum, E. A. (red.). Aalborg Universitetsforlag, s. 32-37 6 s. 5

The 3rd AAU Workshop on Robotics: Proceedings
Tan, Z-H. (red.), Bai, S. (red.), Bak, T. (red.), Rehm, M. (red.) & Jochum, E. A. (red.), 2015, Aalborg Universitetsforlag. 46 s. (AAUWorkshopon Robotics).

Robot Actors, Robot Dramaturgies
Jochum, E., 20 nov. 2014. 10 s.

Rehearsal for the Robot Revolution
Jochum, E. & Goldberg, K., 27 okt. 2014. 10 s.

Programming Play: Puppets, Robots, and Engineering
Jochum, E. & Muphey, T., 30 jun. 2014, *Routledge Companion to Puppetry and Material Performance*. Posner, D., Orenstein, C. & Bell, J. (red.). Routledge, s. 308-321 14 s.

Where Were the Bots? Mobile Robotics in Japan Post-Fukushima
Jochum, E., 25 mar. 2014. 10 s.

Robotic Puppets and the Engineering of Autonomous Theater
Jochum, E., Schultz, J., Murphey, TD. & Johnson, E., 1 jan. 2014, *Controls and Art: Inquiries at the Intersection of the Subjective and the Objective*. Springer, s. 107-128 21 s.

Black Swan or Cash Cow? Innovation in mobile robotics Post-Space Age and Post-Fukushima
Jochum, E., 2014, *Innovation in Extreme Scenarios*. V2_

INTERACT: Applying Theory and Methods from the Visual and Performing Arts to Robots
Jochum, E., Borggreen, G. & Murphey, TD., 2014. 8 s.

KING KONG
Jochum, E., dec. 2013, I: *Theatre Journal* (Baltimore). 65, 4, s. 580-582 3 s.

Uncanny Aesthetics
Jochum, E., 6 nov. 2013.

Generating Reliable and Affective Choreography through Engineering: (GRACE)
Jochum, E., 2013. 5 s.

Interview with Peter J. Wilson
Jochum, E., 2013, I: *Puppetry International*. 34, s. 20-23 4 s.

Presseklip

Den perfekte kvinde er en robot

Henrik Schärf & Elizabeth Jochum

02/03/2016

1 element af Mediedækning

Dukker driver teknologien frem

Elizabeth Jochum

18/07/2015

2 elementer af Mediedækning

Explain the Uncanny Valley in Less Than a Minute

Elizabeth Jochum

20/11/2013

1 element af Mediedækning

Folk er faktisk sødere, når de ikke er unge længere

Elizabeth Jochum

04/07/2015

2 elementer af Mediedækning

Roboterne kommer med fred og pizza

Elizabeth Ann Jochum

02/11/2017

1 element af Mediedækning

Årets Underviser på humaniora

Elizabeth Ann Jochum

16/02/2019

1 element af Mediedækning

AAU uddeler priser til årsfest

Johan Heinsen, Elizabeth Jochum, Filipe Miguel Faria da Silva, Martin Raussen, Louiza Bohn Thomsen & Anne Mette

Frøbert

31/05/2019

1 element af Mediedækning

Aktiviteter

PhD Course: Creative Arts Therapies

Elizabeth Jochum (Arrangør) & Stine Lindahl Jacobsen (Arrangør)

20 nov. 2023 → 22 nov. 2023

Arts, Health & Humanities - semiannual seminar

Stine Lindahl Jacobsen (Arrangør), Charlotte Glintborg (Arrangør) & Elizabeth Jochum (Arrangør)

4 okt. 2023

Workshop of the European Robotics Week 2022 (ERW) on Social Scientific and Humanistic Approaches to Social Robotics.Danish PerspectivesWorkshop on

Antonia Lina Krummheuer (Arrangør) & Elizabeth Jochum (Arrangør)

22 nov. 2022

AI and Creativity: Exploring the Future of Music, Opera, and the Performing Arts in the Age of Machine Learning

Elizabeth Jochum (Arrangør), Evelyn Ficarra (Deltager), Tim Hopkins (Deltager), Chris Kiefer (Deltager), Kivanç Tatar (Deltager), Dimitris Chrysostomou (Deltager) & Chen LI (Deltager)

13 sep. 2022 → 15 sep. 2022

ACM 8th International Conference on Movement and Computing (Begivenhed)

Elizabeth Jochum (Redaktør), Kirstin Carlson (Redaktør), Jessica Rajko (Redaktør) & Luke Dahl (Redaktør)
jun. 2022

Politics of the Machines: Rogue Research (Begivenhed)

Elizabeth Jochum (Fagfællebedømmer), Grisha Coleman (Fagfællebedømmer), Christina Schoux Casey (Fagfællebedømmer), Marco Donnarumma (Fagfællebedømmer) & Boris Abramovic (Fagfællebedømmer)
14 sep. 2021 → 17 sep. 2021

Aalborg Robotics Challenge (Organisation)

Dimitris Chrysostomou (Forperson (Indstillet af AAU)), Matthias Rehm (Næstforperson (indstillet af AAU)), Strahinja Dosen (Næstforperson (indstillet af AAU)), Shahab Heshmati-Alamdar (Næstforperson (indstillet af AAU)) & Elizabeth Jochum (Næstforperson (indstillet af AAU))

1 sep. 2021 → ...

Frontiers In The Art of Human-Robot Interaction: Creative Perspectives from Design and the Arts (Tidsskrift)

Damith Heath (Redaktør), Elizabeth Jochum (Redaktør), Christian Kroos (Redaktør) & David St-Onge (Redaktør)
2020 → ...

HRI 2020 ACM/IEEE International Conference on Human-Robot Interaction

Elizabeth Jochum (Deltager), Cristina Duna (Deltager), Casandra Sandu (Deltager) & Andreas Kornmaaler Hansen (Deltager)
2020

8th Annual Aalborg U Robotics

Elizabeth Jochum (Arrangør)
10 dec. 2019

Faculty of Education, Science, Technology and Mathematics, University of Canberra

Elizabeth Jochum (Gæsteforsker)
1 jan. 2019 → 1 jul. 2019

AISB Society for the Study of Artificial Intelligence and Simulation of Behavior (AISB2019)

Elizabeth Jochum (Arrangør)
2019

IEEE 28th International Symposium on Robot and Human Interactive Communication (RO-MAN)

Elizabeth Jochum (Arrangør)
2018

Culture Aware Robotics

Elizabeth Jochum (Deltager)
6 maj 2014

Projekter**ABRA: Artificial Biology, Robotics and Art**

Jochum, E., Horvath, A., Löchtefeld, M., Rehm, M., Merritt, T. R., Chrysostomou, D. & Pekarik, M.
ERASMUS+
01/09/2020 → 31/08/2023

AHH: Cluster: Arts, Health and Humanities

Glintborg, C., Hejlesen, I. F., Jacobsen, S. L., Jochum, E. & Skov, S.
24/03/2022 → ...

EH: Cluster: Environmental Humanities

Horvath, A., Raudaskoski, P. L., Mølholm, M., Awad, S., Andersen, G., Beck, B. D., Jochum, E., Pedersen, D. B., Sköld, A., Hansen, F. T., Magnussen, R., Eskjær, M. F., Nielsen, R. K., Jessen, I. B., Andersen, P. V. K., Demuth, C., Roslyng, M. M., Lindhardt, S., Rosenstand, C. A. G. F., Krogager, S. G. S. & Horsbøl, A.
01/01/2021 → ...

Construction and Emergence

Heinrich, F., Kørnøv, L., Rosenstand, C. A. G. F. & Jochum, E.
01/01/2016 → 30/04/2016

EXACT: Exoskeletons, Art, and Choreographic Training

Jochum, E., Raudaskoski, P. L., McIlvenny, P. B., Vlachos, E., Demers, L. & Da Silva, A.
01/06/2017 → 28/02/2023

Fod på Gulv

Jacobsen, S. L., Jochum, E. & Egholm, D.
01/09/2022 → 01/05/2024

CRERoB: Grant from Louis-Hansen fonden: Center for Rehabilitation Robotics - phase II

Struijk, L. N. S. A., Moeslund, T. B., Rasmussen, J., Jochumsen, M. R., Jochum, E., Glintborg, C., Gaihede, M., Blicher, J. U., Obál, I., Mohammadi, M., Kæseler, R. L., Bengtson, S. H., Cardoso, A. S. S., Khan, J. S., Leerskov, K., Kirtas, O. & Bentzen, B.
01/08/2024 → 01/10/2027

HEART: Health, Engineering, Art, Robots & Technology

Jochum, E.
01/08/2020 → 31/01/2021

ImprovAlze: Using deep learning to improve real-time motion recognition and affective experiences for human-machine interaction

Jochum, E., Erkut, C., Overholt, D., Dahl, S., Palamas, G. & Bai, S.
01/09/2022 → ...

Moving Together - Online Dance Intervention for mental and physical health in older adults

Hirata, R. P., Hansen, R. K., Jochum, E., Villumsen, M. & Egholm, D.
TrygFonden
01/09/2022 → 31/08/2023

RAPP Lab: Robots, Art, People and Performance

Jochum, E., Heath, D. & Vlachos, E.
Helsefonden
01/11/2016 → ...