

## D4.8 Research publications

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# Table of contents

1. Introduction.....	3
2. Journal papers.....	5
3. Conference papers .....	7
4. Books.....	14
5. Book chapters.....	14
6. Other publications.....	14
7. Articles submitted under review .....	15
8. Planned submissions post project .....	16
Disclaimer.....	17

# 1. Introduction

The visuAAL (Privacy-Aware and Acceptable Video-Based Technologies and Services for Active and Assisted Living) project represents a groundbreaking initiative aimed at addressing the challenges posed by video-based Active and Assisted Living (AAL) technologies. Funded under the European Union's Marie Skłodowska-Curie programme, visuAAL has sought to bridge the gap between user needs and the secure, ethical deployment of video-based systems for improving the health, well-being, and independence of older adults. Running from September 2020 to February 2025, this multidisciplinary project has brought together researchers, industrial partners, and stakeholders from diverse fields such as computer science, healthcare, law, sociology, and business.

At its core, visuAAL has focused on developing privacy-aware solutions that enhance the acceptance of video-based AAL technologies while addressing critical ethical, legal, and societal concerns. The project has tackled issues ranging from data protection under frameworks like the GDPR to algorithmic fairness and user acceptance. By incorporating privacy-by-design principles, visuAAL has aimed to alleviate fears of surveillance and misuse often associated with video-based monitoring systems. This approach is paramount to ensure that these technologies are not only effective but also respectful of users' rights and dignity.

This document compiles the research outputs produced by visuAAL's researchers during the project's execution. These publications span journal articles, conference papers, book chapters, and other contributions that reflect the breadth and depth of the project's achievements. The works presented here not only advance scientific knowledge but also provide practical insights for stakeholders involved in designing, deploying, and regulating AAL technologies.

An essential aspect of the visuAAL project has been the collaborative efforts among its researchers, whose diverse expertise and interdisciplinary approaches have led to innovative research outcomes. The synergy created within this network has not only enriched individual projects but also advanced the collective understanding of how to design and implement AAL technologies that are both effective and ethically sound.

To ensure broad dissemination and accessibility of the knowledge generated during the visuAAL project, all scientific publications have been made openly available through dedicated platforms. A community has been created on Zenodo<sup>1</sup>, a trusted open-access repository, where the project's research outputs can be freely accessed

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<sup>1</sup> <https://zenodo.org/communities/visuaal> (last access: 27/02/2025)

by researchers, practitioners, and the general public. This community serves as a centralized hub for sharing the outcomes produced by visuAAL's researchers. Additionally, these publications are also accessible via the project's website<sup>2</sup> under the "Scientific Publications" section. By providing open access to its research, visuAAL highlights its commitment to transparency, collaboration, and the advancement of science, ensuring that its contributions can inform future developments in AAL technologies.

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<sup>2</sup> <https://www.visuaal-itn.eu/outcomes/scientific-publications> (last access: 27/02/2025)

## 2. Journal papers

He, Z. (2022). When data protection norms meet digital health technology: China's regulatory approaches to health data protection. *Computer Law & Security Review*, 47, 105758.

Hick, A., & Ziefle, M. (2022). A qualitative approach to the public perception of AI. *International Journal on Cybernetics & Informatics (IJCI)*, 11(11), 1.

Mujirishvili, T., Maidhof, C., Florez-Revuelta, F., Ziefle, M., Richart-Martinez, M., & Cabrero-García, J. (2023). Acceptance and privacy perceptions toward video-based active and assisted living technologies: scoping review. *Journal of Medical Internet Research*, 25, e45297.

Maidhof, C., Offermann, J., & Ziefle, M. (2023). Eyes on privacy: acceptance of video-based AAL impacted by activities being filmed. *Frontiers in Public Health*, 11, 1186944.

Offermann, J., Maidhof, C., & Ziefle, M. (2023). Somebody is watching me? Analyzing privacy preferences in using visual AAL technology considering human-, technology-, and context-related factors. *Universal Access in the Information Society*, 1-13.

Offermann, J., Wilkowska, W., Maidhof, C., & Ziefle, M. (2023). Shapes of You? Investigating the acceptance of video-based AAL technologies applying different visualization modes. *Sensors*, 23(3), 1143.

Brauner, P., Hick, A., Philipsen, R., & Ziefle, M. (2023). *What does the public think about artificial intelligence? A criticality map to understand bias in the public perception of AI. Frontiers in Computer Science (2023)*.

He, Z. (2023). From privacy-enhancing to health data utilisation: the traces of Anonymisation and Pseudonymisation in EU data protection law. *Digital Society*, 2(2), 17.

Kuźmicz, M. M. (2023). A concept of balance of interest in the context of active assisted living. *Digital Society*, 2(3), 51.

Kuzmicz, M. M. (2023). Naked in the Eyes of the Law: Criminal Law Perspective on Nudity in Chosen European Jurisdictions in the Context of Innovative Technologies. *European Journal of Crime, Criminal Law and Criminal Justice*, 31(3-4), 325-345.

Kuźmicz, M. M. (2023). European digital rights–human rights for a digital age. *The Journal on Technology and Persons with Disabilities*, 60.

Kuźmicz, M. M. (2023). Multilayer Information Obligation, and Why We Need It. *The Journal on Technology and Persons with Disabilities*, 43.

Tham, N. A. Q., Brady, A.-M., Ziefle, M., & Dinsmore, J. (2023). Barriers and facilitators to older adults' acceptance of camera-based active and assisted living technologies: a scoping review protocol. *Open Research Europe*, 3, 210.

Tham, N., Brady, A. M., & Dinsmore, J. (2023). P131 Do conceptions of the future self influence older adults' acceptance of camera-based active and assisted living technologies?: The moderating role of multimorbidity. *J Epidemiol Community Health*, 77(Suppl 1), A111-A112.

Tham, N., Brady, A. M., & Dinsmore, J. (2023). Future-self vividness influences acceptance of camera-based active and assisted living technologies. *European Journal of Public Health*, 33(Supplement\_2), ckad160-871.

Ravi, S., Climent-Pérez, P., & Florez-Revuelta, F. (2024). A review on visual privacy preservation techniques for active and assisted living. *Multimedia Tools and Applications*, 83(5), 14715-14755.

Hashemifard, K., Climent-Perez, P., & Florez-Revuelta, F. (2024). Weakly supervised human skin segmentation using guidance attention mechanisms. *Multimedia Tools and Applications*, 83(10), 31177-31194.

Wilkowska, W., Otten, S., Maidhof, C., & Ziefle, M. (2024). Trust Conditions and Privacy Perceptions in the Acceptance of Ambient Technologies for Health-Related Purposes. *International Journal of Human–Computer Interaction*, 40(22), 7784-7799.

Hick, S., Biermann, H., & Ziefle, M. (2024). How deep is your trust? A comparative user requirements' analysis of automation in medical and mobility technologies. *Humanities and Social Sciences Communications*, 11(1), 1-13.

Ballester, I., Gall, M., Münzer, T., & Kampel, M. (2024). Depth-based interactive assistive system for dementia care. *Journal of Ambient Intelligence and Humanized Computing*, 15(12), 3901-3912.

Mujirishvili, T., Cabrero-García, J., Flórez-Revuelta, F., & Richart-Martínez, M. (2024). Navigating the crossroads of aging, caregiving and technology: Insights from southern Spain about video-based technology in the care context. *Digital Health*, 10, 20552076241271856.

Tham, N. A. Q., Brady, A. M., Ziefle, M., & Dinsmore, J. (2024). Barriers and facilitators to older adults' acceptance of camera-based active and assisted living technologies: A scoping review. *Innovation in Aging*, igae100.

### 3. Conference papers

Kuźmicz, M. (2021, May). *AAL in the post-Covid world – Common risk or chance?* In *Crisis, Recovery & Renewal: Re-Imagining Society Post Covid-19*, KU Leuven, May 14–15, 2021.

He, Z. (2021, November). *Colliding legal frameworks in the era of active and assisted living: Comparing the approaches of the EU and China*. In *XXXVI Nordic Conference on Law and Information Technology*, Oslo, Norway.

Noiret, S., Lumetzberger, J., & Kampel, M. (2021, December). Bias and fairness in computer vision applications of the criminal justice system. In *2021 IEEE Symposium Series on Computational Intelligence (SSCI)* (pp. 1-8). IEEE.

Ballester, I., Mujirishvili, T., & Kampel, M. (2021, December). RITA: a privacy-aware toileting assistance designed for people with dementia. In *International Conference on Pervasive Computing Technologies for Healthcare* (pp. 318-330). Cham: Springer International Publishing.

Kuźmicz, M. (2022, February). *Consumer protection in AAL systems – The importance of the information obligation in the EU law*. In *The Wallenberg AI, Autonomous Systems and Software Program – Humanities and Society Winter Conference 2022*, February 10–11, 2022, Umeå, Sweden.

Maidhof, C., Ziefle, M., & Offermann, J. (2022, April). Exploring Privacy: Mental Models of Potential Users of AAL Technology. In *Proceedings of the 8th International Conference on Information and Communication Technologies for Ageing Well and e-Health (ICT4AWE 2022)* (pp. 93-104).

Maidhof, C., Ziefle, M., & Sackl, A. (2024, April). Outside the Box: Exploring Determinants for Participation in a Digitally Enhanced Remote Museum Visit for Older Adults. In *Proceedings of the 8th International Conference on Information and Communication Technologies for Ageing Well and e-Health (ICT4AWE 2024)* (pp. 152-160).

Regal, G., Maidhof, C., Puthenkalam, J., Khermayer, Ž., Pavšek, K., & Sackl, A. (2023, December). Feel the Art: Digital, Tangible Postcards for Accessible Cultural Experiences. In *Proceedings of the 22nd International Conference on Mobile and Ubiquitous Multimedia* (pp. 559-561).

Offermann, J., Maidhof, C., & Ziefle, M. (2023, July). Visual Ambient Assisted Living Technologies for Different Daily Activities: Users' Requirements and Data Handling Preferences. In *International Conference on Human-Computer Interaction* (pp. 47-65). Cham: Springer Nature Switzerland.

Maidhof, C., Offermann, J., & Ziefle, M. (2021, April). Don't you worry'bout a Thing? Identification and Quantification of Relevant Privacy Parameters within the Acceptance of AAL Technology. In *International Conference on Information and Communication Technologies for Ageing Well and e-Health* (pp. 103-122). Cham: Springer Nature Switzerland.

Mucha, W., & Kampel, M. (2022, February). Depth and thermal images in face detection-a detailed comparison between image modalities. In *Proceedings of the 2022 5th International Conference on Machine Vision and Applications* (pp. 16-21).

Otten, S., & Ziefle, M. (2022, April). Exploring Trust Perceptions in the Medical Context: A Qualitative Approach to Outlining Determinants of Trust in AAL Technology. In *Proceedings of the 8th International Conference on Information and Communication Technologies for Ageing Well and e-Health (ICT4AWE 2022)* (pp. 244-253).

Hashemifard, K., & Florez-Revuelta, F. (2022, May). From garment to skin: the visual skin segmentation dataset. In *International conference on image analysis and processing* (pp. 59-70). Cham: Springer International Publishing.

Maidhof, C., Hashemifard, K., Offermann, J., Ziefle, M., & Florez-Revuelta, F. (2022, June). Underneath your clothes: a social and technological perspective on nudity in the context of AAL technology. In *Proceedings of the 15th international conference on Pervasive technologies related to assistive environments* (pp. 439-445).

He, Z. (2022, June). Privacy-enhancing technologies for active and assisted living: What does the GDPR say?. In *Proceedings of the 15th International Conference on Pervasive Technologies Related to Assistive Environments* (pp. 430-433). **BEST WORKSHOP STUDENT PAPER AWARD**

Mucha, W., & Kampel, M. (2022, June). Beyond privacy of depth sensors in active and assisted living devices. In *Proceedings of the 15th International Conference on Pervasive Technologies Related to Assistive Environments* (pp. 425-429).

Noiret, S., Ravi, S., Kampel, M., & Florez-Revuelta, F. (2022, June). On The Nature of Misidentification With Privacy Preserving Algorithms. In *Proceedings of the 15th International Conference on Pervasive Technologies Related to Assistive Environments* (pp. 422-424).

Zhicheng, H. (2022, June). Bridging Law and Technology: Seeing Through Privacy-Enhancing Technologies for Assisted Living from the Perspective of EU Data Protection Law, *GoodBrother COST Action International Conference on Privacy-friendly and Trustworthy Technology for Society*, Zagreb, Croatia, 11.

Kuźmicz, M. (2022, June). *Inspirations from EU financial law for privacy protection by information obligations in Active and Assisted Living technologies*. In *XIV Konferencja Bezpieczeństwo w Internecie - Hacking*.

Kuźmicz, M. (2022, June). *Balance of interest and AAL*. In *ACM Conference on Fairness, Accountability, and Transparency*, Seoul, South Korea.

He, Z. (2022, July). *Health data protection: The regulatory approaches of China*. In Session "Healthcare Issues in Asia and Beyond", *2022 Global Meeting on Law and Society*, Lisbon, Portugal.

Mucha, W., & Kampel, M. (2022, July). Addressing privacy concerns in depth sensors. In *International conference on computers helping people with special needs* (pp. 526-533). Cham: Springer International Publishing.

Mujirishvili, T. (2022, July). *Perceptions of personal safety and privacy in frail elderly, disabled people and their caregivers in the context of video-based lifelogging technologies*. In *Young Researchers Consortium, Joint International Conference on Digital Inclusion, Assistive Technology & Accessibility - ICCHP-AAATE 2022*.

Kuźmicz, M. (2022, July). *Information obligation as a balancing tool in the context of active and assisted living*. In *ICCHP-AAATE 2022 Open Access Compendium: Assistive Technology, Accessibility and (e)Inclusion* (Part II, pp. 260–269).

Ballester, I., & Kampel, M. (2022, July). *Automated vision-based toilet assistance for people with dementia*. In M. Zallio (Ed.), *Human factors in accessibility and assistive technology. AHFE 2022 International Conference* (Vol. 37). AHFE Open Access, AHFE International, USA.

Mujirishvili, T. (2022, September). *Perceptions of privacy in terms of video-based AAL technologies*. Poster presentation, *Ellis Doctoral Symposium*, Alicante, Spain.

Kuźmicz, M. (2022, September). *Robots and Europe's Digital Decade – A talk about the EU policy towards robots*. In *The 2nd Workshop on Design-Centered HRI and Governance, 31st IEEE International Conference on Robot & Human Interactive Communication*, Naples, Italy.

Mujirishvili, T., Richart-Martinez, M., Cabrero-Garcia, J., & Florez-Revuelta, F. (2022, October). *Perceptions of older adults about the concept of privacy and in terms of*

*video-based AAL technologies*. In *2022 World Congress of Gerontechnology*, Daegu, South Korea. *Gerontechnology*, 21(s), 1–1.

Noiret, S., Ravi, S., Kampel, M., & Florez-Revuelta, F. (2023, February). Fairly private: Investigating the fairness of visual privacy preservation algorithms, *Fourth AAAI Workshop on Privacy-Preserving Artificial Intelligence (PPAI-23)*, Washington, DC, USA.

Mujirishvili, T., Richart-Martínez, M., Cabrero-García, J., & Flórez-Revuelta, F. (2023, April). *What is privacy? Perceptions of older adults in the south of Spain about the concept of privacy and in terms of video-based AAL technologies*. In *Proceedings of the 9th International Conference on Information and Communication Technologies for Ageing Well and e-Health (ICT4AWE) - Volume 1* (pp. 59–64), Prague, Czech Republic.

Hashemifard, K., Florez-Revuelta, F., & Lacey, G. (2023, April). *A fallen person detector with a privacy-preserving edge-AI camera*. In *Proceedings of the 9th International Conference on Information and Communication Technologies for Ageing Well and e-Health (ICT4AWE) - Volume 1* (pp. 262–269), Prague, Czech Republic.

Maidhof, C., Offermann, J., & Ziefle, M. (2023, April). Living on Video: Insights on the User Perspective of Video-Based AAL Technology. In *Proceedings of the 9th International Conference on Information and Communication Technologies for Ageing Well and e-Health (ICT4AWE) - Volume 1* (pp. 28-39), Prague, Czech Republic.

Otten, S., Wilkowska, W., Offermann, J., & Ziefle, M. (2023, April). Trust in and Acceptance of Video-based AAL Technologies. In *Proceedings of the 9th International Conference on Information and Communication Technologies for Ageing Well and e-Health (ICT4AWE) - Volume 1* (pp. 126-134), Prague, Czech Republic.

Jeromela, J., Barman, D., Zaal, H., Debnath, A., Akbar, A., Kay, J., & Conlan, O. (2023, June). 1st Workshop on Context Representation in User Modelling. In *Adjunct Proceedings of the 31st ACM Conference on User Modeling, Adaptation and Personalization* (pp. 174-176).

Ravi, S., Climent-Perez, P., Morales, T., Huesca-Spaurani, C., Hashemifard, K., & Florez-Revuelta, F. (2023, June). ODIN: An OmniDirectional INdoor dataset capturing Activities of Daily Living from multiple synchronized modalities. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition* (pp. 6488-6497).

Biermann, H., Otten, S., & Ziefle, M. (2023, July). Understanding trust in automation: A consideration of human factors and context. In *Proceedings of the AHFE 2023 International Conference on Usability and User Experience, San Francisco, California, USA*. Springer International Publishing (pp. 20-24).

Otten, S., Offermann, J., & Ziefle, M. (2023, July). Paving the way: trust in healthcare systems as a prerequisite for technology usage. In *International Conference on Human-Computer Interaction* (pp. 160-172). Cham: Springer Nature Switzerland.

Kuźmicz, M. M. (2023, September). Video-Based AAL and Intimate Pictures—Criminal Liability in European, Irish, and Polish Law. In *Assistive Technology: Shaping a Sustainable and Inclusive World* (pp. 105-112), *17th International Conference of the Association for the Advancement of Assistive Technology in Europe*. IOS Press.

Mucha, W., & Kampel, M. (2023, September). Hands, objects, action! Egocentric 2D hand-based action recognition. In *International Conference on Computer Vision Systems* (pp. 31-40). Cham: Springer Nature Switzerland.

Ballester, I., Gall, M., Münzer, T., & Kampel, M. (2024, March). Vision-Based Toilet Assistant for People with Dementia in Real-Life Situations. In *2024 IEEE International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events (PerCom Workshops)* (pp. 141-147). IEEE.

Kuźmicz, M. M. (2024, May). What should we care about in AAL? Unveiling the main interests of the users in the legal context. In *2024 IEEE 18th International Conference on Automatic Face and Gesture Recognition (FG)* (pp. 1-9). IEEE.

Mucha, W., & Kampel, M. (2024, May). In my perspective, in my hands: Accurate egocentric 2d hand pose and action recognition. In *2024 IEEE 18th International Conference on Automatic Face and Gesture Recognition (FG)* (pp. 1-9). IEEE.

Ballester, I., & Kampel, M. (2024, May). Ethical Impact Identification of a Dementia Behaviour Monitoring System. In *2024 IEEE 18th International Conference on Automatic Face and Gesture Recognition (FG)* (pp. 1-5). IEEE.

Mujirishvili, T., Fedosov, A., Hashemifard, K., Climent-Pérez, P., & Florez-Revuelta, F. (2024, May). “I Don’t Want to Become a Number”: Examining Different Stakeholder Perspectives on a Video-Based Monitoring System for Senior Care with Inherent Privacy Protection (by Design). In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems* (pp. 1-19).

Adeli, V., Mehraban, S., Ballester, I., Zarghami, Y., Sabo, A., Iaboni, A., & Taati, B. (2024, May). Benchmarking Skeleton-based Motion Encoder Models for Clinical Applications: Estimating Parkinson's Disease Severity in Walking Sequences. In *2024 IEEE 18th International Conference on Automatic Face and Gesture Recognition (FG)* (pp. 1-10). IEEE.

Tham, N. A. Q., Brady, A.-M., Ziefle, M., & Dinsmore, J. (2024, June). Using behavioural insights to increase older adults' acceptance of camera-based active and assisted living technologies: An experimental medicine approach. *Proceedings of the Joint VisuAAL-GoodBrother Conference on Trustworthy Video- and Audio-based Assistive Technologies*, 41-46.

Mujirishvili, T., Fedosov, A., Hashemifard, K., Climent-Perez, P., & Florez-Revuelta, F. (2024, June). Balancing Privacy and Safety: Stakeholder Perspectives on Video-Based Monitoring in Active and Assisted Living. *Proceedings of the Joint VisuAAL-GoodBrother Conference on Trustworthy Video- and Audio-based Assistive Technologies*, 37-40.

Pkhakadze, I. (2024, June). Digital twins as a way to help ensure legal compliance of video-based AAL technologies. *Proceedings of the Joint VisuAAL-GoodBrother Conference on Trustworthy Video- and Audio-based Assistive Technologies*, 33-36.

Kuźmicz, M. M. (2024, June). AAL and the main approaches to balancing interests in European law. *Proceedings of the Joint VisuAAL-GoodBrother Conference on Trustworthy Video- and Audio-based Assistive Technologies*, 29-32.

He, Z. (2024, June). Bridging science and privacy: Health data governance in the age of digital health: The legal approaches contexts of the EU and China. *Proceedings of the Joint VisuAAL-GoodBrother Conference on Trustworthy Video- and Audio-based Assistive Technologies*, 26-28.

Zaal, H., Dinsmore, J., Conlan, O., & Lacey, G. (2024, June). Improving Home-Based Care Robots' Capabilities Using Natural Language. *Proceedings of the Joint VisuAAL-GoodBrother Conference on Trustworthy Video- and Audio-based Assistive Technologies*, 21-25.

Hashemifard, K., & Florez-Revuelta, F. (2024, June). Context Recognition for the Application of Visual Privacy. *Proceedings of the Joint VisuAAL-GoodBrother Conference on Trustworthy Video- and Audio-based Assistive Technologies*, 18-20.

Ravi, S., & Florez-Revuelta, F. (2024, June). Contextual Privacy Preservation in Active and Assisted Living Using Omnidirectional Cameras. *Proceedings of the Joint*

VisuAAL-GoodBrother Conference on Trustworthy Video- and Audio-based Assistive Technologies, 14-17.

Mucha, W., & Kampel, M. (2024, June). Understanding Human Behaviour With Wearable Cameras Based on Information From the Human Hand. Proceedings of the Joint VisuAAL-GoodBrother Conference on Trustworthy Video- and Audio-based Assistive Technologies, 10-13.

Ballester, I., & Kampel, M. (2024, June). Measuring dementia behaviours through depth sensors. Proceedings of the Joint VisuAAL-GoodBrother Conference on Trustworthy Video- and Audio-based Assistive Technologies, 7-9.

Mucha, W., Cuconasu, F., Etori, N. A., Kalokyri, V., & Trappolini, G. (2024, July). TEXT2TASTE: a versatile egocentric vision system for intelligent reading assistance using large language model. In *International Conference on Computers Helping People with Special Needs* (pp. 285-291). Cham: Springer Nature Switzerland.

Ballester, I., & Kampel, M. (2024, July). Action recognition from 4D point clouds for privacy-sensitive scenarios in assistive contexts. In *International Conference on Computers Helping People with Special Needs* (pp. 359-364). Cham: Springer Nature Switzerland.

Mucha, W., Tanaka, K., & Kampel, M. (2024, September) REST-HANDS: Rehabilitation with Egocentric Vision Using Smartglasses for Treatment of Hands after Surviving Stroke. In *12th International Workshop on Assistive Computer Vision and Robotics (ACVR2024)*

Mucha, W., Wray, M., & Kampel, M. (2025, February). SHARP: Segmentation of Hands and Arms by Range Using Pseudo-depth for Enhanced Egocentric 3D Hand Pose Estimation and Action Recognition. In *International Conference on Pattern Recognition* (pp. 178-193). Springer, Cham.

Ballester, I., Peterka, O., & Kampel, M. (2025, February). SPiKE: 3D Human Pose from Point Cloud Sequences. In *International Conference on Pattern Recognition* (pp. 470-486). Springer, Cham.

Kuźmicz, M. M. (2025, February). Risk Identification and Proactive Conflict Management in AI-Driven Care. In *Conference proceedings Internationales Rechtsinformatik Symposium (IRIS) 2025*.

Kuźmicz, M. M., Mujirishvili, T., Hick, A., & Florez-Revuelta, F. (2025, February). Can we agree on what privacy means? Philosophical, legal, and social context. In *Conference proceedings Internationales Rechtsinformatik Symposium (IRIS) 2025*.

## 4. Books

Hick, S. (2025). Trustworthiness of Medical Technology in Severe Health Decisions: Findings in the Context of Ambient Assisted Living. HCI-series, Apprimus. Aachen, Germany.

Maidhof, C. (2025). Privacy and Acceptance Perceptions of Video-Based Ambient Assisted Living Technologies. HCI-series, Apprimus. Aachen, Germany.

## 5. Book chapters

Maidhof, C., Offermann, J., & Ziefle, M. (2021, April). Don't you worry'bout a Thing? Identification and Quantification of Relevant Privacy Parameters within the Acceptance of AAL Technology. In *International Conference on Information and Communication Technologies for Ageing Well and e-Health* (pp. 103-122). Cham: Springer Nature Switzerland.

Mujirishvili, T., & Flórez-Revuelta, F. (2023). Understanding User Needs, Persona Scenarios for Privacy-Preserving Visual System Development. In *Assistive Technology: Shaping a Sustainable and Inclusive World* (pp. 97-104). IOS Press.

Kuźmicz, M. M. (2024). Who Should We Care About in the Digital World? Challenges of Stakeholders' Identification—The Case Study of AAL. *DATA PROTECTION AND PRIVACY*, 231.

Backstrom, T., Ravi, S., & Florez-Revuelta, F. (2025). Privacy preservation in audio and video. In *Privacy-aware monitoring for assisted living – Ethical, legal, and technological aspects of audio- and video-based AAL solutions*. Salah, A.A., Colonna, L., & Florez-Revuelta, F. (eds.). Springer. (in press)

## 6. Other publications

Ake-Kob, A., Blazeveciene, A., Colonna, L., Čartolovni, A., Colantonio, S., Dantas, C., Fedosov, A., Florez-Revuelta, F., Fosch-Villaronga, E., He, Z., Klimczuk, A., Kuźmicz, M., Lukács, A., Lutz, C., Mekovec, R., Miguel, C., Mordini, E., Pajalic, Z., Pierscionek, B. K., ... Tamò-Larrieux, A. (2022). State of the art on ethical, legal, and social issues linked to audio- and video-based AAL solutions. GoodBrother COST Action.

Aleksic, S., Atanasov, M., Calleja Agius, J., Camilleri, K., Čartolovni, A., Climent-Pérez, P., Colantonio, S., Cristina, S., Despotovic, V., Ekenel, H. K., Erakin, E., Florez-Revuelta, F., Germanese, D., Grech, N., Sigurðardóttir, S. G., Emirzeoğlu, M.,

Iliev, I., Jovanovic, M., Kampel, M., ... Zgank, A. (2022). State of the Art of Audio- and Video-Based Solutions for AAL. GoodBrother COST Action.

Aleksic, S., Colonna, L., Dantas, C., Fedosov, A., Florez-Revuelta, F., Fosch-Villaronga, E., Jevremovic, A., Msaknić, H. G., Ravi, S., Rexha, B., & Tamò-Larrieux, A. (2022). State of the art in privacy preservation in video data. GoodBrother COST Action.

Ake-Kob, A., Aleksic, S., Alexin, Z., Blaževićienė, A., Čartolovni, A., Colonna, L., Dantas, C., Fedosov, A., Fosch-Villaronga, E., Florez-Revuelta, F., He, Z., Jevremović, A., Klimczuk, A., Kuźmicz, M., Lambrinos, L., Lutz, C., Malešević, A., Mekovec, R., Miguel, C., ... Tamò-Larrieux, A. (2022). Position paper on ethical, legal and social challenges linked to audio- and video-based AAL solutions. GoodBrother COST Action.

Florez-Revuelta, F., Ake-Kob, A., Climent-Perez, P., Coelho, P., Colonna, L., Dahabiyeh, L., Dantas, C., Dogru-Huzmeli, E., Ekenel, H. K., Jevremovic, A., Hosseini-Kivanani, N., Ilgaz, A., Jovanovic, M., Klimczuk, A., Kuźmicz, M. M., Lameski, P., Luna, F., Machado, N., Mujirishvili, T., ... Yazici, Z. A. (2024). 50 questions on Active Assisted Living technologies. Global edition. GoodBrother COST Action.

Riva, G. M., Fedosov, A., Florez-Revuelta, F., Colantonio, S., Lutz, C., Tamò-Larrieux, A., Kuźmicz, M. M., Colonna, L., Lameski, P., Zdravevski, E., Pocta, P., Sklavos, N., Ptaschitz, N. G. S., Dantas, C., Metin, E., van Staaldin, W., & Gürçinar, E. (2024). Trustworthy AAL Design Cards. En GoodBrother COST Action (CA19121) - Network on Privacy-Aware Audio- and Video-Based Applications for Active and Assisted Living, Riva, G. M., Fedosov, A., & Gürçinar, E. (Eds). GoodBrother COST Action.

Florez-Revuelta, F., Ake-Kob, A., Climent-Perez, P., Coelho, P., Colonna, L., Dahabiyeh, L., Dantas, C., Dogru-Huzmeli, E., Ekenel, H. K., Jevremovic, A., Hosseini-Kivanani, N., Ilgaz, A., Jovanovic, M., Klimczuk, A., Kuźmicz, M. M., Lameski, P., Luna, F., Machado, N., Mujirishvili, T., ... Yazici, Z. A. (2025). 50 preguntas sobre tecnologías para un envejecimiento activo y saludable. Edición española. GoodBrother COST Action.

## 7. Articles submitted under review

Mishra, P. K., Ballester, I., Iaboni, A., Ye, B., Newman, K., Mihailidis, A., and Khan, S. S. (2024) Depth-Weighted Detection of Behaviours of Risk in People with

Dementia using Cameras. (Submitted to *IEEE Transactions on Neural Systems & Rehabilitation Engineering*) arXiv preprint arXiv:2408.15519

Pkhakadze, I. Too Good to be True? Synthetic Data and Digital Twins in Ambient Assisted Living: A Privacy Centric and Compliance-Focused Approach. *International Joint Conference on Neural Networks IJCNN 2025*.

Tham, N. A. Q., Brady, A.-M., & Dinsmore, J. Associations between future self-continuity and older adults' acceptance of camera-based active and assisted living technologies. *Current Research in Behavioral Sciences*.

## 8. Planned submissions post project

Hashemifard, K., & Florez-Revuelta, F. Pose-Object-CNN Fusion: A Cross-Attention Approach for the Recognition of Activities of Daily Living. (Journal to be determined)

Tanaka, K., Mujirishvili, T., Brady, A.-M., & Dinsmore, J. G. Healthcare providers' perspective on the use of camera technologies in telehealth: a scoping review protocol. *Open Research Europe*.

Tanaka, K., Mujirishvili, T., Brady, A.-M., & Dinsmore, J. G. Healthcare providers' perspective on the use of camera technologies in telehealth: a scoping review. *International Journal of Telemedicine and Applications*.

Tham, N. A. Q., Brady, A.-M., & Dinsmore, J. The effect of a future-self intervention on older adults' acceptance of camera-based active and assisted living technologies. *Current Research in Behavioral Sciences*.

Zaal, H., Dinsmore, J., Conlan, O., & Lacey, G. Improving the Interface to Home-Based Personal Assistant Robots using an LLM in an Agentic Framework. (To submit it to ACM Transactions on Human-Robot Interaction)

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