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## Publikationer

### **Distributed agency in HRI—an exploratory study of a narrative robot design**

Graf, P., Zarp-Falden, C. S., Naik, L., Lefevre, K. B., Marchetti, E., Hornecker, E., Sørensen, M. B., Hemmingsen, L. V., Christensen, E. V. J., Bodenhagen, L., Krüger, N. & Bischof, A., 28. feb. 2024, I: *Frontiers in Robotics and AI*. 11, 13 s.

### **Planning Base Poses and Object Grasp Choices for Table-Clearing Tasks Using Dynamic Programming**

Sørensen, S. L., Naik, L., Nguyen, P. K. D. T., Kramberger, A., Bodenhagen, L., Kjærgaard, M. B. & Krüger, N., jan. 2024, *Proceedings of the 16th International Conference on Agents and Artificial Intelligence*. SCITEPRESS Digital Library, Bind 3. s. 1316-1323

### **Adapted Conflict Detection for Conflict Based Search**

Kollakidou, A. & Bodenhagen, L., 2024, *Proceedings of the 16th International Conference on Agents and Artificial Intelligence - (Volume 1)*. SCITEPRESS Digital Library, Bind 1. s. 367-373

### **Bibo the Moving Cup for People Affected by Dementia: Design, Ethical Considerations, and First Observations in Use**

Kollakidou, A., Lefevre, K., Zarp-Falden, C. S., Malbois, E., Bodenhagen, L., Krüger, N. & Hornecker, E., sep. 2023, I: *SN Computer Science*. 4, 5, 432.

### **Proactive Control for Online Individual User Adaptation in a Welfare Robot Guidance Scenario: Toward Supporting Elderly People**

Zurro, A. P., Ignasov, J., Ramírez, E. R., Haarslev, F., Juel, W. K., Bodenhagen, L., Krüger, N., Shaikh, D., Rano, I. & Poramate, M., jun. 2023, I: *IEEE Transactions on Systems, Man, and Cybernetics: Systems*. 53, 6, s. 3364-3376

### **The Impact of Speech and Movement on the Interaction with a Mobile Hand Disinfection Robot**

Bjorn, A., Juul, S. H., Arnesen, N. R., Andersen, M. S., Philipsen, R., Jelinek, M., Bodenhagen, L. & Palinko, O., 13. mar. 2023, *HRI 2023: Companion of the ACM/IEEE International Conference on Human-Robot Interaction*. Association for Computing Machinery, s. 373-377

### **Improving Throughput of Mobile Robots in Narrow Aisles**

Thomsen, S., Davidsen, M., Naik, L., Kollakidou, A., Bodenhagen, L. & Krüger, N., 2023, *Proceedings of the 18th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications - HUCAPP*. Paljic, A., Ziat, M. & Bouatouch, K. (red.). SCITEPRESS Digital Library, Bind 2. s. 221-228 (IVAPP, Bind 2).

### **Toward Human-Centered Collaborative Robotics for Manufacturing**

Pietras, E. T. J. S., Ulfert-Blank, A-S., Kramberger, A., Krüger, N. & Bodenhagen, L., 2023.

### **Understanding human-robot teamwork in the wild: The difference between success and failure for mobile robots in hospitals**

Tornbjerg, K. & Bodenhagen, L., 2023, *2023 32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN)*. IEEE, s. 277-284 (IEEE RO-MAN proceedings).

### **Analysis and Utilisation of Conflicts in Multi-Agent Path Finding**

Kollakidou, A. & Bodenhagen, L., jun. 2022.

### **Testing the dancing cup "Bibo" to reduce dehydration of dementia patients**

Kollakidou, A., Zarp-Falden, C. S., Lefevre, K., Bodenhagen, L., Krüger, N. & Hornecker, E., maj 2022.

### **A Mobile Social Hand Disinfection Robot for Use in Hospitals**

Palinko, O., Junge, R. P., Holm, D. G. & Bodenhagen, L., 2022, *Social Robotics - 14th International Conference, ICSR 2022, Proceedings*. Cavallo, F., Cabibihan, J.-J., Fiorini, L., Sorrentino, A., He, H., Liu, X., Matsumoto, Y. & Ge, S. S. (red.). Springer Nature, s. 348-358 (Lecture Notes in Computer Science, Bind 13818).

### **Health-CAT: Development of a Mobile Robot for Assisting Caregivers**

Juel, W. K., Haarslev, F. & Bodenhagen, L., 2022, *Proceedings of the 17th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications - HUCAPP*. SCITEPRESS Digital Library, Bind 2. s. 171-178 (IVAPP, Bind 2).

### **HRI-Gestures: Gesture Recognition for Human-Robot Interaction**

Kollakidou, A., Haarslev, F., Odabasi, C., Bodenhagen, L. & Krüger, N., 2022, *Proceedings of the 17th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. Farinella, G. M., Radeva, P. & Bouatouch, K. (red.). SCITEPRESS Digital Library, Bind 5. s. 559-566 (IVAPP, Bind 5).

### **Intention Understanding for Human-Aware Mobile Robots: Comparing Cues and the Effect of Demographics**

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### **What Will It Take to Help a Stuck Robot? Exploring Signaling Methods for a Mobile Robot**

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### **The SMOOTH-Robot: A Modular, Interactive Service Robot**

Krüger, N., Fischer, K., Manoonpong, P., Palinko, O., Bodenhagen, L., Baumann, T., Kjærum, J., Rano, I., Naik, L., Juel, W. K., Haarslev, F., Ignasov, J., Marchetti, E., Langedijk, R. M., Kollakidou, A., Camillus Jeppesen, K., Heidtmann, C. & Dalgaard, L., 5. okt. 2021, I: *Frontiers in Robotics and AI*. 8, 22 s., 645639.

### **Enabling robots to adhere to social norms by detecting F-formations**

Kollakidou, A., Naik, L., Palinko, O. & Bodenhagen, L., 8. aug. 2021, *2021 30th IEEE International Conference on Robot and Human Interactive Communication, RO-MAN 2021*. IEEE, s. 110-116 (IEEE RO-MAN proceedings).

### **Multi-modal proactive approaching of humans for human-robot cooperative tasks**

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### **A robotic interface for motivating and educating proper hand sanitization using speech and gaze interaction**

Palinko, O., Fredskild, T. U., Andersen, E. T., Heidtmann, C., Sorensen, A. R., Peter Junge, R., Nielsen, N. H. T., Bodenhagen, L. & Kruger, N., 2021, *2021 30th IEEE International Conference on Robot and Human Interactive Communication, RO-MAN 2021*. IEEE, s. 763-769 (IEEE RO-MAN proceedings).

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### **SMOOTH Robot: Design for a novel modular welfare robot**

Juel, W. K., Haarslev, F., Ramirez, E. R., Marchetti, E., Fischer, K., Shaikh, D., Manoonpong, P., Hauch, C., Bodenhagen, L. & Krüger, N., 1. apr. 2020, I: *Journal of Intelligent and Robotic Systems*. 98, s. 19-37

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### **An Integrated Object Detection and Tracking Framework for Mobile Robots**

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### **An interactive drink serving social robot: Initial System Implementation**

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### **Human-Aware Robot Behavior in Healthcare Facilities**

Haarslev, F., Juel, W. K., Kollakidou, A., Krüger, N. & Bodenhagen, L., 2020.

### **Intention Indication for Human Aware Robot Navigation**

Palinko, O., Ramírez, E. R., Juel, W. K., Krüger, N. & Bodenhagen, L., 2020, *Proceedings of the 15th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications - Volume 2: HUCAPP*. Chessa, M., Paljic, A. & Braz, J. (red.). SCITEPRESS Digital Library, Bind 2. s. 64-74

### **Synthetic Ground Truth for Presegmentation of Known Objects for Effortless Pose Estimation**

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### **The Penguin – on the boundary between pet and machine: An ecological perspective on the design of assistive robots for elderly care**

Marchetti, E., Juel, W. K., Langedijk, R. M., Bodenhagen, L. & Krüger, N., jul. 2019, *Human Aspects of IT for the Aged Population. Social Media, Games and Assistive Environments. HCII 2019*. Salvendy, G. & Zhou, J. (red.). Springer, Bind Part II. s. 425-443 (Lecture Notes in Computer Science, Bind 11593).

### **Robot Technology For Future Welfare: Meeting Upcoming Societal Challenges - An Outlook With Offset In The Development In Scandinavia**

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### **Concurrent intramodal learning enhances multisensory responses of symmetric crossmodal learning in robotic audio-visual tracking**

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### **Speech melody matters: How robots profit from using charismatic speech**

Fischer, K., Niebuhr, O., Jensen, L. C. & Bodenhagen, L., 2019, I: *ACM Transactions on Human-Robot Interaction*. 9, 1, 21 s., 4.

### **Towards Socially Acceptable, Human-Aware Robot Navigation**

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### **Simulation Based Behavior for a Welfare Robot**

Suvei, S-D., Bodenhausen, L., Thulesen, T. N. & Krüger, N., 21. nov. 2018, *Simulation and Modeling Methodologies, Technologies and Applications: 7th International Conference, SIMULTECH 2017 Madrid, Spain, July 26–28, 2017 Revised Selected Papers*. S. Obaidat, M., Ören, T. & De Rango, F. (red.). Springer, s. 319-334 (Advances in Intelligent Systems and Computing).

### **The SMOOTH Robot: Design for a Novel Modular Welfare Robot**

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### **Increasing trust in human–robot medical interactions: Effects of transparency and adaptability**

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### **"I would like to get close to you": Making robot personal space invasion less intrusive with a social gaze cue**

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### **Robots for elderly care institutions**

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### **Robots for Elderly Care Institutions: How They May Affect Elderly Care**

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### **Stereo and LIDAR fusion based detection of humans and other obstacles in farming scenarios**

Suvei, S-D., Haarslev, F., Bodenhausen, L. & Krüger, N., 2018, *Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. Treméau, A., Imai, F. & Braz, J. (red.). SCITEPRESS Digital Library, Bind 4. s. 166-173

### **Towards A Robotic Assistant for Care-givers**

Bodenhausen, L., Halgaard Gotfredsen, L., Juel, W. K., Ungermann Fredskild, T. & Wendlandt, R., 2018.

### **Towards Crossmodal Learning for Smooth Multimodal Attention Orientation**

Haarslev, F., Docherty, D., Suvei, S-D., Juel, W. K., Bodenhausen, L., Shaikh, D., Krüger, N. & Manoonpong, P., 2018, *Social Robotics: Proceedings of the 10th International Conference, ICSR 2018*. Ge, S. S., Cabibihan, J-J., A. Salichs, M., Broadbent, E., He, H., R. Wagner, A. & Castro-González, Á. (red.). Springer, s. 318-328 (Lecture Notes in Computer Science, Bind 11357). (Lecture Notes in Artificial Intelligence, Bind 11357).

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### **Applying Peg-in-Hole Actions with a Service Robot**

Suvei, S-D., Bodenhausen, L., Thulesen, T. N., Jami, M. D. & Krüger, N., 2017, *Proceedings of the 7th International Conference on Simulation and Modeling Methodologies, Technologies and Applications*. De Rango, F., Ören, T. & Obaidat, M. S. (red.). SCITEPRESS Digital Library, s. 224-231

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### **Socially Acceptable Behaviour for Robots Approaching Humans using an Adaptable Personal Space**

Camillus Jeppesen, K., Bodenhagen, L. & Krüger, N., 2017, *Proceedings of the 12th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. Braz, J., Richard, P. & Yamaguchi, T. (red.). SCITEPRESS Digital Library, Bind 2. s. 116-121

### **Task and Context Sensitive Gripper Design Learning Using Dynamic Grasp Simulation**

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### **The Influence of Transparency and Adaptability on Trust in Human-Robot Medical Interactions**

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### **Unimodal Learning Enhances Crossmodal Learning in Robotic Audio-Visual Tracking**

Shaikh, D., Bodenhagen, L. & Manoonpong, P., 2017. 4 s.

### **Using Online Modelled Spatial Constraints for Pose Estimation in an Industrial Setting**

Meyer, K. K., Wolniakowski, A., Hagelskjær, F., Kiforenko, L., Buch, A. G., Krüger, N., Jørgensen, J. A. & Bodenhagen, L., 2017, *Mechatronics and Robotics Engineering for Advanced and Intelligent Manufacturing*. Zhang, D. & Wei, B. (red.). Springer, Bind 1. s. 123-133 (Lecture Notes in Mechanical Engineering).

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### **Stereo and Active-Sensor Data Fusion for Improved Stereo Block Matching**

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### **Object detection using categorised 3D edges**

Kiforenko, L., Buch, A. G., Bodenhagen, L. & Krüger, N., feb. 2015, *Seventh International Conference on Machine Vision, ICMV 2014: Seventh International Conference on Machine Vision (ICMV 2014)*. Verikas, A., Vuksanovic, B., Radeva, P. & Zhou, J. (red.). SPIE - International Society for Optical Engineering, (Proceedings of SPIE, the International Society for Optical Engineering, Bind 9445).

### **Trinvis og delte strategier for kontrol af velfærdsrobotter**

Fischer, K., Bodenhagen, L., Krüger, N., Andersen, M. Ø. & Baumann, T., feb. 2015, I: *Medicoteknik*. 1, 2. årgang, s. 11-13 3 s.

### **The Role of the Timing between Multimodal Robot Behaviors for Joint Action**

Fischer, K., Jensen, L. C., Suvei, S-D. & Bodenhagen, L., 2015.

### **An Adaptable Robot Vision System Performing Manipulation Actions with Flexible Objects**

Bodenhagen, L., Fugl, A. R., Jordt, A., Willatzen, M., Aulkjær Andersen, K., Mølbach Olsen, M., Koch, R., Petersen, H. G. & Krüger, N., jul. 2014, I: *IEEE Transactions on Automation Science and Engineering*. 11, 3, s. 749 - 765

### **To Beep or Not to Beep is Not the Whole Question**

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### **Probabilistic Manipulations Functions: Statistical Representation of Actions and their Outcomes**

Bodenhagen, L., 2013, Syddansk Universitet. Det Naturvidenskabelige Fakultet.

### **Statistical Identification of Composed Visual Features Indicating High Likelihood of Grasp Success**

Thomsen, M. T., Bodenhagen, L. & Krüger, N., 2013, I: IEEE International Conference on Robotics and Automation.

### **Learning Peg-In-Hole Actions with Flexible Objects**

Bodenhagen, L., Fugl, A. R., Willatzen, M., Petersen, H. G. & Krüger, N., feb. 2012, *Proceedings of the 4th International Conference on Agents and Artificial Intelligence*. Filipe, J. & Fred, A. (red.). SCITEPRESS Digital Library, s. 624-631

### **An Outline for an intelligent System performing Peg-in-Hole Actions with flexible Objects**

Jordt, A., Fugl, A. R., Bodenhagen, L., Willatzen, M., Koch, R., Petersen, H. G., Andersen, K. A., Olsen, M. M. & Krüger, N., dec. 2011. 12 s.

### **Grasp Densities for Grasp Refinement in Industrial Bin Picking**

Hupfaut, B., Hahn, H., Bodenhagen, L., Kraft, D., Krüger, N. & Piater, J., 2011.

### **Grasp Learning by Means of Developing Sensorimotor Schemas and Generic World Knowledge**

Krüger, N., Popovic, M., Bodenhagen, L., Kraft, D. & Guerin, F., 2011, *Proceedings of AISB 2011 : Computational Models of Cognitive Development*. Society for the Study of Artificial Intelligence and the Simulation of Behaviour, s. 23-31

### **Learning Grasp Affordance Densities**

Detry, R., Kraft, D., Kroemer, O., Bodenhagen, L., Peters, J., Krüger, N. & Piater, J., 2011, I: *Paladyn. Journal of Behavioral Robotics*. 2, 1, s. 1-17

### **What a successful grasp tells about the success chances of grasps in its vicinity**

Bodenhagen, L., Detry, R., Piater, J. & Krüger, N., 2011, *Development and Learning (ICDL), 2011 IEEE International Conference on* . IEEE, 8 s.

### **A Strategy for Grasping unknown Objects based on Co-Planarity and Colour Information**

Popovic, M., Kraft, D., Bodenhagen, L., Baseski, E., Pugeault, N., Kragic, D., Asfour, T. & Krüger, N., 31. maj 2010, I: *Robotics and Autonomous Systems*. 58, 5, s. 551-565

### **Learning to Grasp Unknown Objects Based on 3D Edge Information**

Bodenhagen, L., Kraft, D., Popovic, M., Baseski, E., Hotz, P. E. & Krüger, N., 2010, *IEEE International Symposium on Computational Intelligence in Robotics and Automation (CIRA2009)*. IEEE, s. 421 - 428

### **Using Multi-Modal 3D Contours and Their Relations for Vision and Robotics**

Baseski, E., Pugeault, N., Kalkan, S., Bodenhagen, L., Piater, J. & Krüger, N., 2010, I: *Journal of Visual Communication and Image Representation*. 21, 8, s. 850-864

### **Using 3D Contours and Their Relations for Cognitive Vision and Robotics**

Baseski, E., Bodenhagen, L., Pugeault, N., Kalkan, S., Piater, J. & Krüger, N., 2009, *Ikke angivet*. International Symposium on Computer and Information Sciences

## **Aktiviteter**

### **2. Transferforum - Wirtschaft und Wissenschaft in der Kiel Region**

Bodenhagen, L. (Oplægsholder)

1. nov. 2011

**A Robotic Assistant for Care-Givers**

Lind Hasselager, T. (Deltager), Juel, W. K. (Deltager), Zickler, C. (Deltager), Witt, S. (Deltager) & Bodenhagen, L. (Deltager)  
nov. 2018

**DGR Days 2012**

Bodenhagen, L. (Oplægsholder)  
6. sep. 2012

**European Robotics Forum**

Bodenhagen, L. (Oplægsholder)  
7. mar. 2012

**How can the Care-O-Bot test platform inspire to develop new technology?**

Bodenhagen, L. (Underviser)  
1. feb. 2018

**ICRA 2024 workshop: Dynamic Duos: Human-Robot Co-Worker Adaptation in Manufacturing.**

Bodenhagen, L. (Deltager) & Ulfert-Blank, A. (Deltager)  
13. maj 2024

**IROS 2020 Workshop: Robots for Health and Elderly Care**

Bodenhagen, L. (Arrangør), Palinko, O. (Arrangør), Michaud, F. (Arrangør), Tapus, A. (Arrangør) & Robillard, J. (Arrangør)  
29. okt. 2020

**Robotterne flytter ind: Hvad skal der til?**

Bodenhagen, L. (Foredragsholder)  
18. sep. 2016

**Smooth Interaction Between Humans and Robots Through Pro-Active Robot Behavior**

Bodenhagen, L. (Underviser)  
21. maj 2018

**The SMOOTH Robot: Assisting Care Givers**

Juel, W. K. (Deltager), Haarslev, F. (Deltager), Marchetti, E. (Deltager), Krüger, N. (Deltager) & Bodenhagen, L. (Deltager)  
nov. 2018

**Where can robots make a difference for our welfare?**

Bodenhagen, L. (Oplægsholder) & Halgaard Gotfredsen, L. (Oplægsholder)  
10. okt. 2017