

# H F Machiel Van Der Loos

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

3,035  
citations

430874

18  
h-index

414414

32  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3011  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Perceptions of power-assist devices: interviews with manual wheelchair users. Disability and Rehabilitation: Assistive Technology, 2023, 18, 693-703.  | 2.2 | 4         |
| 2  | Perception of autonomy among people who use wheeled mobility assistive devices: dependence on environment and contextual factors. Disability and Rehabilitation: Assistive Technology, 2023, 18, 1066-1073.                              | 2.2 | 1         |
| 3  | Perception of autonomy among people who use wheeled mobility assistive devices: Dependence on the type of wheeled assistive technology. Assistive Technology, 2022, 34, 725-733.   | 2.0 | 3         |
| 4  | Design and Evaluation of an Augmented Reality Head-mounted Display Interface for Human Robot Teams Collaborating in Physically Shared Manufacturing Tasks. ACM Transactions on Human-Robot Interaction, 2022, 11, 1-19.                  | 4.1 | 14        |
| 5  | Ethics of Corporeal, Co-present Robots as Agents of Influence: a Review. Current Robotics Reports, 2021, 2, 223-229.   | 7.9 | 5         |
| 6  | Hey Robot, Which Way Are You Going? Nonverbal Motion Legibility Cues for Human-Robot Spatial Interaction. IEEE Robotics and Automation Letters, 2021, 6, 5010-5015.  | 5.1 | 15        |
| 7  | Error Augmentation in Immersive Virtual Reality for Bimanual Upper-Limb Rehabilitation in Individuals With and Without Hemiplegic Cerebral Palsy. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 541-549. | 4.9 | 15        |
| 8  | Development of a Learning-Based Intention Detection Framework for Power-Assisted Manual Wheelchair Users. , 2020, , .  |     | 3         |
| 9  | Development of A Learning-Based Terrain Classification Framework for Pushrim-Activated Power-Assisted Wheelchairs. , 2020, 2020, 4762-4765.  |     | 3         |
| 10 | Towards the Development of a Learning-Based Intention Classification Framework for Pushrim-Activated Power-Assisted Wheelchairs. , 2019, 2019, 95-100.   |     | 5         |
| 11 | Determining the Accuracy of Oculus Touch Controllers for Motor Rehabilitation Applications Using Quantifiable Upper Limb Kinematics: Validation Study. JMIR Biomedical Engineering, 2019, 4, e12291.                                     | 1.2 | 18        |
| 12 | Application of Commercial Games for Home-Based Rehabilitation for People with Hemiparesis: Challenges and Lessons Learned. Games for Health Journal, 2018, 7, 197-207.   | 2.0 | 23        |
| 13 | Biofeedback vs. game scores for reducing trunk compensation after stroke: a randomized crossover trial. Topics in Stroke Rehabilitation, 2018, 25, 96-113.   | 1.9 | 31        |
| 14 | On identifying kinematic and muscle synergies: a comparison of matrix factorization methods using experimental data from the healthy population. Journal of Neurophysiology, 2017, 117, 290-302.   | 1.8 | 51        |
| 15 | Reducing Trunk Compensation in Stroke Survivors: A Randomized Crossover Trial Comparing Visual and Force Feedback Modalities. Archives of Physical Medicine and Rehabilitation, 2017, 98, 1932-1940.                                     | 0.9 | 29        |
| 16 | Trunk Compensation During Bimanual Reaching at Different Heights by Healthy and Hemiparetic Adults. Journal of Motor Behavior, 2017, 49, 580-592.  | 0.9 | 13        |
| 17 | Developing safe fall strategies for lower limb exoskeletons. , 2017, 2017, 314-319.  |     | 6         |
| 18 | Data sample size needed for analysis of kinematic and muscle synergies in healthy and stroke populations. , 2017, 2017, 777-782.   |     | 2         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Transformation of Vestibular Signals for the Control of Standing in Humans. Journal of Neuroscience, 2016, 36, 11510-11520.  | 3.6 | 52        |
| 20 | Evaluating the User Experience of Exercising Reaching Motions With a Robot That Predicts Desired Movement Difficulty. Journal of Motor Behavior, 2016, 48, 31-46.  | 0.9 | 24        |
| 21 | Perceptions of Technology and Its Use for Therapeutic Application for Individuals With Hemiparesis: Findings From Adult and Pediatric Focus Groups. JMIR Rehabilitation and Assistive Technologies, 2015, 2, e1. | 2.2 | 23        |
| 22 | A wearable vibrotactile device for upper-limb bilateral motion training in stroke rehabilitation: A case study. , 2015, 2015, 3480-3.  |     | 7         |
| 23 | Therapistsâ€™ Perceptions of Social Media and Video Game Technologies in Upper Limb Rehabilitation. JMIR Serious Games, 2015, 3, e2.   | 3.1 | 66        |
| 24 | Applying the biodesign innovation process: Addressing the inadequate supply of surgical screws in the developing world. , 2014, , .  |     | 1         |
| 25 | Experimental Performance Evaluation of Human Balance Control Models. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 1115-1127.  | 4.9 | 8         |
| 26 | Physiological responses to error amplification in a robotic reaching adaptation task. , 2014, 2014, 2318-21.   |     | 3         |
| 27 | Usability testing of gaming and social media applications for stroke and cerebral palsy upper limb rehabilitation. , 2014, 2014, 3602-5.   |     | 21        |
| 28 | Virtual Reality Therapy for Adults Post-Stroke: A Systematic Review and Meta-Analysis Exploring Virtual Environments and Commercial Games in Therapy. PLoS ONE, 2014, 9, e93318.                                 | 2.5 | 371       |
| 29 | Adaptation of task difficulty in rehabilitation exercises based on the user's motor performance and physiological responses. , 2013, 2013, 6650429.  |     | 19        |
| 30 | Comparison of seat, waist, and arm sit-to-stand assistance modalities in elderly population. Journal of Rehabilitation Research and Development, 2013, 50, 835-844.  | 1.6 | 16        |
| 31 | Video Games and Rehabilitation. Journal of Neurologic Physical Therapy, 2013, 37, 166-175.   | 1.4 | 225       |
| 32 | Charlie Rides the Elevator -- Integrating Vision, Navigation and Manipulation towards Multi-floor Robot Locomotion. , 2013, , .  |     | 22        |
| 33 | Special Issue on Assistive Robotics [From the Guest Editors]. IEEE Robotics and Automation Magazine, 2013, 20, 16-19.  | 2.0 | 9         |
| 34 | Grip forces and load forces in handovers. , 2012, , .  |     | 66        |
| 35 | Error amplification to promote motor learning and motivation in therapy robotics. , 2012, 2012, 3907-10.   |     | 17        |
| 36 | Independent ankle motion control improves robotic balance simulator. , 2012, 2012, 6487-91.  |     | 4         |

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|----|---|-----|-----------|
| 37 | Human standing is modified by an unconscious integration of congruent sensory and motor signals. Journal of Physiology, 2012, 590, 5783-5794.   | 2.9 | 55        |
| 38 | Survey-Based Discussions on Morally Contentious Applications of Interactive Robotics. International Journal of Social Robotics, 2012, 4, 77-96.   | 4.6 | 31        |
| 39 | Did you see it hesitate? - empirically grounded design of hesitation trajectories for collaborative robots. , 2011, , .   |     | 1         |
| 40 | Roboethics: Ethics Applied to Robotics [From the Guest Editors]. IEEE Robotics and Automation Magazine, 2011, 18, 21-22.  | 2.0 | 19        |
| 41 | Validation of a Robotic Balance System for Investigations in the Control of Human Standing Balance. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 382-390.                      | 4.9 | 23        |
| 42 | Did you see it hesitate? - Empirically grounded design of hesitation trajectories for collaborative robots. , 2011, , .   |     | 13        |
| 43 | Development of whole-body humanoid &#x201C;pneumat-BS&#x201D; with pneumatic musculoskeletal system. , 2011, , .  |     | 6         |
| 44 | Case Study: An Assistive Technology Ethics Survey. , 2011, , 75-93.   |     | 0         |
| 45 | Using Team-Based Learning to Improve Learning and the Student Experience in a Mechanical Design Course. , 2010, , .   |     | 0         |
| 46 | A Split-Crank Bicycle Ergometer Uses Servomotors to Provide Programmable Pedal Forces for Studies in Human Biomechanics. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 445-452. | 4.9 | 10        |
| 47 | On Line - affective state reporting device. , 2009, , .   |     | 0         |
| 48 | Coaching product development teams: a conceptual foundation for empirical studies. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2009, 19, 205-222.                        | 2.1 | 21        |
| 49 | Rehabilitation and Health Care Robotics. , 2008, , 1223-1251.   |     | 32        |
| 50 | Towards a personal robotics development platform: Rationale and design of an intrinsically safe personal robot. , 2008, , .   |     | 118       |
| 51 | Culture Coaching: A Model for Facilitating Globally Distributed Collaborative Work. , 2006, , .   |     | 4         |
| 52 | MIME robotic device for upper-limb neurorehabilitation in subacute stroke subjects: A follow-up study. Journal of Rehabilitation Research and Development, 2006, 43, 631.                                       | 1.6 | 381       |
| 53 | Experimental results using force-feedback cueing in robot-assisted stroke therapy. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2005, 13, 335-348.                                       | 4.9 | 80        |
| 54 | Robotic stroke therapy assistant. Robotica, 2003, 21, 33-44.  | 1.9 | 50        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Robot-assisted movement training compared with conventional therapy techniques for the rehabilitation of upper-limb motor function after stroke. Archives of Physical Medicine and Rehabilitation, 2002, 83, 952-959. | 0.9 | 993       |