ArmeoPower Complete Literature Overview

Authors	Year	Title	Reference	Reference Type	Open Source
Y. M. Aung	2016	Augmented Reality System for Rehabilitation : New Approach Based on Human Interaction and Biofeedback	Doctor of Philosophy, FACULTY OF ENGINEERING & INFORAMTION TECHNOLOGY UNIVERSITY OF TECHNOLOGY SYDNEY	Thesis	yes
M. Babaiasl, S. H. Mahdioun, P. Jaryani and M. Yazdani	2016	A Review of Technological and Clinical Aspects of Robot-Aided Rehabilitation of Upper-Extremity after Stroke	Disabil Rehabil Assist Technol. 11; (4): 263-80	Journal Article	no
K. Baur, V. Klamroth-Marganska, C. Giorgetti, D. Fichmann and R. Riener	2016	Performance-Based Viscous Force Field Adaptation in Upper Limb Strength Training for Stroke Patients	2016 6th IEEE International Conference on Biomedical Robotics and Biomechatronics (BioRob), 26-29 June 2016, 864-869	Conference Proceedings	no
F. Just, K. Baur, R. Riener, V. Klamroth-Marganska and G. Rauter	2016	Online Adaptive Compensation of the Armin Rehabilitation Robot	6th IEEE International Conference on Biomedical Robotics and Biomechatronics (BioRob), Singapore, 26-29 June 2016; 747-752	Conference Paper	no
S. Ortmann, J. Kesselring and J. Kool	2016	Reliabilität Und Validität Der Handkraftmessung Eines Robotik-Gestützten Handtherapiesystems Bei Patienten Nach Schlaganfall	Physioswiss-Congress 2016, Basel, Switzerland,	Conference Contribution	n.a.
T. Proietti, V. Crocher, A. Roby-Brami and N. Jarrasse	2016	Upper-Limb Robotic Exoskeletons for Neurorehabilitation: A Review on Control Strategies	IEEE Rev Biomed Eng.	Journal Article	no
W.-K. Song	2016	Trends in Rehabilitation Robots and Their Translational Research in National Rehabilitation Center, Korea	Biomedical Engineering Letters. 6; (1): 1-9	Journal Article	no
D. A. Tran, M. Pajaro-Blazquez, J. F. Daneault, J. G. Gallegos, J. Pons, F. Fregni, P. Bonato and R. Zafonte	2016	Combining Dopaminergic Facilitation with Robot-Assisted Upper Limb Therapy in Stroke Survivors: A Focused Review	Am J Phys Med Rehabil.	Journal Article	yes
D. Brauchle, M. Vukelic, R. Bauer and A. Gharabaghi	2015	Brain State-Dependent Robotic Reaching Movement with a Multi-Joint Arm Exoskeleton: Combining Brain-Machine Interfacing and Robotic Rehabilitation	Front Hum Neurosci. 9; 564	Journal Article	
J. Fong, V. Crocher, D. Oetomo and Y. Tan	2015	An Investigation into the Reliability of Upper-Limb Robotic Exoskeleton Measurements for Clinical Evaluation in Neurorehabilitation	7th International IEEE EMBS Conference on Neural Engineering, Montpellier, France, 22-24 April 2015;	Conference Paper	
J. Fong, V. Crocher, D. Oetomo, Y. Tan and I. Mareels	2015	Effects of Robotic Exoskeleton Dynamics on Joint Recruitment in a Neurorehabilitation Context	ICORR; International Conference on Rehabilitation Robotics, Singapore, 11-14 August 2015;	Conference Paper	
U. Keller, S. Scholch, U. Albisser, C. Rudhe, A. Curt, R. Riener and V. Klamroth-Marganska	2015	Robot-Assisted Arm Assessments in Spinal Cord Injured Patients: A Consideration of Concept Study	PLoS One. 10; (5): e0126948	Journal Article	
J. Mehrholz, M. Pohl, T. Platz, J. Kugler and B. Elsner	2015	Electromechanical and Robot-Assisted Arm Training for Improving Activities of Daily Living, Arm Function, and Arm Muscle Strength after Stroke (Updated Evidence)	Cochrane Database Syst Rev. 11; Cd006876	Journal Article	
E. B. Brokaw, D. Nichols, R. J. Holley and P. S. Lum	2014	Robotic Therapy Provides a Stimulus for Upper Limb Motor Recovery after Stroke That Is Complementary to and Distinct from Conventional Therapy	Neurorehabil Neural Repair. 28; (4): 367-76	Journal Article	

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V. Klamroth-Marganska, J. Blanco, K. Campen, A. Curt, V. Dietz, T. Ettlin, M. Felder, B. Fellinghauer, M. Guidali, A. Kollmar, A. Luft, T. Nef, C. Schuster-Amft, W. Stahel and R. Riener	2014	Three-Dimensional, Task-Specific Robot Therapy of the Arm after Stroke: A Multicentre, Parallel-Group Randomised Trial	Lancet Neurol. 13; (2): 159-66	Journal Article	
S. Masiero, P. Poli, G. Rosati, D. Zanotto, M. Iosa, S. Paolucci and G. Morone	2014	The Value of Robotic Systems in Stroke Rehabilitation	Expert Rev Med Devices. 11; (2): 187-98	Journal Article	
N. Nordin, S. Q. Xie and B. Wunsche	2014	Assessment of Movement Quality in Robot- Assisted Upper Limb Rehabilitation after Stroke: A Review	J Neuroeng Rehabil. 11; 137	Journal Article	
D. Novak, A. Nagle, U. Keller and R. Riener	2014	Increasing Motivation in Robot-Aided Arm Rehabilitation with Competitive and Cooperative Gameplay	J Neuroeng Rehabil. 11; 64	Journal Article	
M. Guidali, U. Keller, V. Klamroth-Marganska, T. Nef and R. Riener	2013	Estimating the Patient's Contribution During Robot-Assisted Therapy	J Rehabil Res Dev. 50; (3): 379-94	Journal Article	
T. Nef, R. Riener, R. Muri and U. P. Mosimann	2013	Comfort of Two Shoulder Actuation Mechanisms for Arm Therapy Exoskeletons: A Comparative Study in Healthy Subjects	Med Biol Eng Comput. 51; (7): 781-9	Journal Article	
P. Poli, G. Morone, G. Rosati and S. Masiero	2013	Robotic Technologies and Rehabilitation: New Tools for Stroke Patients' Therapy	Biomed Res Int. 2013; 153872	Journal Article	
J. Mehrholz, A. Hadrich, T. Platz, J. Kugler and M. Pohl	2012	Electromechanical and Robot-Assisted Arm Training for Improving Generic Activities of Daily Living, Arm Function, and Arm Muscle Strength after Stroke	Cochrane Database Syst Rev. 6; CD006876	Journal Article	
E. B. Brokaw, T. Murray, T. Nef and P. S. Lum	2011	Retraining of Interjoint Arm Coordination after Stroke Using Robot-Assisted Time-Independent Functional Training	J Rehabil Res Dev. 48; (4): 299-316	Journal Article	
E. B. Brokaw, T. M. Murray, T. Nef, P. S. Lum, D. Nichols and R. J. Holley	2011	Time Independent Functional Task Training: A Case Study on the Effect of Inter-Joint Coordination Driven Haptic Guidance in Stroke Therapy	IEEE Int Conf Rehabil Robot, Jun 29-Jul 1; 2011; 5975501	Conference Paper	
M. Guidali, A. Duschau-Wicke, S. Broggi, V. Klamroth-Marganska, T. Nef and R. Riener	2011	A Robotic System to Train Activities of Daily Living in a Virtual Environment	Med Biol Eng Comput. 49; (10): 1213-23	Journal Article	
M. Guidali, P. Schlink, A. Duschau-Wicke and R. Riener	2011	Online Learning and Adaptation of Patient Support During Adl Training	IEEE Int Conf Rehabil Robot, Jun 29-Jul 1; 2011; 5975434	Conference Paper	
M. Guidali, M. Büchel, V. Klamroth, T. Nef and R. Riener	2009	Trajectory Planning of Adl Tasks for an Exoskeletal Arm Rehabilitation Robot	Technically Assisted Rehabilitation (TAR), Berlin, March 18th-19th 2009,	Conference Proceedings	
M. Guidali, A. Duschau-Wicke, M. Büchel, A. Brunschweiler, T. Nef and R. Riener	2009	Path Control - a Strategy for Patient-Cooperative Arm Rehabilitation	AUTOMED, Berlin, March 20th-21st 2009,	Conference Proceedings	
T. Nef, M. Guidali and R. Riener	2009	Armin Iii - Arm Therapy Exoskeleton with an Ergonomic Shoulder Actuation	Applied Bionics and Biomechanics. 6; (2): 127 - 142	Journal Article	
T. Nef, G. Quinter, R. Muller and R. Riener	2009	Effects of Arm Training with the Robotic Device Armin I in Chronic Stroke: Three Single Cases	Neurodegener Dis. 6; (5-6): 240-51	Journal Article	
L. Pignolo	2009	Robotics in Neuro-Rehabilitation	J Rehabil Med. 41; (12): 955-60	Journal Article	
P. Staubli, T. Nef, V. Klamroth-Marganska and R. Riener	2009	Effects of Intensive Arm Training with the Rehabilitation Robot Armin Ii in Chronic Stroke Patients: Four Single-Cases	J Neuroeng Rehabil. 6; 46	Journal Article	
A. Waldner, C. Tomelleri and S. Hesse	2009	Transfer of Scientific Concepts to Clinical Practice: Recent Robot-Assisted Training Studies	Funct Neurol. 24; (4): 173-7	Journal Article	

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J. Mehrholz, T. Platz, J. Kugler and M. Pohl	2008	Electromechanical and Robot-Assisted Arm Training for Improving Arm Function and Activities of Daily Living after Stroke	Cochrane Database Syst Rev. (4): CD006876	Journal Article	
A. Fitzi and N. Bosshard	2007	Long-Distance Tele-Rehabilitation Using a Ping-Pong Training	School of Engineering,Zürcher Hochschule für Angewandte Wissenschaften (ZHAW)	Thesis	
M. Miheli, T. Nef and R. Riener	2007	Armin Ii - 7dof Rehabilitation Robot: Mechanics and Kinematics	ICRA, Roma, Italy, 10-14 April 2007,	Conference Proceedings	
M. Mihelj, T. Nef and R. Riener	2007	Patient-Cooperative Control of Upper Limb Rehabilitation Robots	Workshop on Robotics in Alpe-Adria-Danube Region, Ljubljana, June 7th - 9th 2007,	Conference Proceedings	
T. Nef, M. Miheli, G. Kiefer, C. Perndl and R. Müller	2007	Armin - Exoskeleton for Arm Therapy in Stroke Patients	ICORR, International Conference on Rehabilitation Robotics, Nordwijk, Netherlands, June 13-15, 2007,	Conference Proceedings	
T. Nef, M. Mihelj, G. Kiefer, R. Müller and R. Riener	2007	Armin - Robot-Aided Arm Therapy in Chronic Stroke	International Workshop on Motor Learning in Stroke Recovery, Rome, Italy, March 19th-20th 2007,	Conference Proceedings	
T. Nef, M. Mihelj and R. Riener	2007	Armin: A Robot for Patient-Cooperative Arm Therapy	Med Biol Eng Comput. 45; (9): 887-900	Journal Article	
T. Nef, M. Mihelj and R. Riener	2007	Armin - Evaluation of a Shoulder Actuation for Arm Exos	BMT, Achen, 26-29 September 2007,	Conference Proceedings	
T. Nef and R. Riener	2007	Arm Therapy Robot Armin: A Tele-Game to Increase Patient Motivation	Automed, Munic, Germany, October 19th to 21st 2007,	Conference Proceedings	
E. M. Siekierka, K. Eng, C. Bassetti, A. Blickenstorfer, M. S. Cameirao, V. Dietz, A. Duff, F. Erol, T. Ettlin, D. M. Hermann, T. Keller, B. Keisker, J. Kesselring, R. Kleiser, S. Kollias, J. P. Kool, A. Kurre, S. Mangold, T. Nef, P. Pyk, R. Riener, C. Schuster, F. Tosi, P. F. Verschure and L. Zimmerli	2007	New Technologies and Concepts for Rehabilitation in the Acute Phase of Stroke: A Collaborative Matrix	Neurodegener Dis. 4; (1): 57-69	Journal Article	
G. Kiefer	2006	Clinical Evaluation of the Upper Limb Rehabilitation Device Armin - a Pilot Study	Dipl. Datw. WTH, Departmen ot Biology,Swiss Federal Institute of Technology	Thesis	
M. Mihelj, T. Nef and R. Riener	2006	Armin - toward a Six Dof Upper Limb Rehabilitation Robot	Biorob, Pisa, Italy, June 20-22 2006,	Conference Proceedings	
T. Nef, M. Miheli, F. Oldewurtel and R. Riener	2006	Armin - Resultate Der Ersten Pilotstudie	Deutsche Gesellschaft für Biomedizinische Technik	Conference Proceedings	
R. Studer and S. Maurer	2006	Virtual Enhanced Arm Rehabilitation	Zürcher Hochschule der Angewandten Wissenschaften	Thesis	
K. Fritsche	2005	Development and Validation of Patient-Cooperative Control Strategies for Armin	Semester Thesis, Swiss Federal Institute of Technology	Thesis	

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S. Kühne	2005	Development and Validation of a Teach- and Repeat Mode for Armin	Swiss Federal Institute of Technology and University of Zurich	Thesis	
T. Nef and R. Riener	2005	Armin - Design of a Novel Arm Rehabilitation Robot	9th International Conference on Rehabilitation Robotics (ICORR), Chicago, Illinois, USA, June 28 - July 1, 2005, 57-60	Conference Proceedings	
R. Riener, T. Nef and G. Colombo	2005	Robot-Aided Neurorehabilitation of the Upper Extremities	Med Biol Eng Comput. 43; (1): 2-10	Journal Article	
M. Aerni and G. Lüscher	2005	Armin.06	Kunst,Fachhochschule Nordwestschweiz	Thesis	