Thierry Keller

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Optimal multi-field functional electrical stimulation parameters for the "drinking task - reaching phase―and related upper limb kinematics repeatability in post stroke subjects. Journal of Hand Therapy, 2022, 35, 645-654. | 1.5 | 7 |
| 2 | MERLIN: Upper-Limb Rehabilitation Robot System for Home Environment. Biosystems and Biorobotics, 2022, , 823-827. | 0.3 | 3 |
| 3 | Effect of Gel Type and Anode Selection in Ankle Movements Elicited by a Multi-field FES Device. Biosystems and Biorobotics, 2022, , 97-101. | 0.3 | 0 |
| 4 | Comparison of Configuration Postures for a Foot Drop Multi-field FES Device. Biosystems and Biorobotics, 2022, , 705-710. | 0.3 | 0 |
| 5 | Design and Development of OECT Logic Circuits for Electrical Stimulation Applications. Applied Sciences (Switzerland), 2022, 12, 3985. | 2.5 | 4 |
| 6 | Optimal Multifield Functional Electrical Stimulation Parameters for the "Turn on the Light―Task and Related Upper Limb Kinematics Repeatability in Poststroke Subjects. Archives of Physical Medicine and Rehabilitation, 2021, 102, 1180-1190. | 0.9 | 2 |
| 7 | HoMEcare aRm rehabiLItatioN (MERLIN): telerehabilitation using an unactuated device based on serious games improves the upper limb function in chronic stroke. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 48. | 4.6 | 30 |
| 8 | Modelling the Component-based Architecture and Safety Contracts of ArmAssist in Papyrus for Robotics. , 2021, , . | | 2 |
| 9 | BEAGLE—A Kinematic Sensory System for Objective Hand Function Assessment in Technology-Mediated Rehabilitation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1817-1826. | 4.9 | 5 |
| 10 | European evidence-based recommendations for clinical assessment of upper limb in neurorehabilitation (CAULIN): data synthesis from systematic reviews, clinical practice guidelines and expert consensus. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 162. | 4.6 | 22 |
| 11 | Consensus-Based Core Set of Outcome Measures for Clinical Motor Rehabilitation After Stroke—A Delphi Study. Frontiers in Neurology, 2020, 11, 875. | 2.4 | 54 |
| 12 | A Systematic Review of International Clinical Guidelines for Rehabilitation of People With Neurological Conditions: What Recommendations Are Made for Upper Limb Assessment?. Frontiers in Neurology, 2019, 10, 567. | 2.4 | 46 |
| 13 | Standardized Measurement of Quality of Upper Limb Movement After Stroke: Consensus-Based Core Recommendations From the Second Stroke Recovery and Rehabilitation Roundtable. Neurorehabilitation and Neural Repair, 2019, 33, 951-958. | 2.9 | 84 |
| 14 | A foot drop compensation device based on surface multi-field functional electrical stimulation—Usability study in a clinical environment. Journal of Rehabilitation and Assistive Technologies Engineering, 2019, 6, 205566831986214. | 0.9 | 4 |
| 15 | Transferrable Expertise From Bionic Arms to Robotic Exoskeletons: Perspectives for Stroke and Duchenne Muscular Dystrophy. IEEE Transactions on Medical Robotics and Bionics, 2019, 1, 88-96. | 3.2 | 15 |
| 16 | Optimization of Semiautomated Calibration Algorithm of Multichannel Electrotactile Feedback for Myoelectric Hand Prosthesis. Applied Bionics and Biomechanics, 2019, 2019, 1-9. | 1.1 | 14 |
| 17 | Multichannel Electrotactile Feedback With Spatial and Mixed Coding for Closed-Loop Control of Grasping Force in Hand Prostheses. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 183-195. | 4.9 | 98 |
| 18 | Short- and Long-Term Learning of Feedforward Control of a Myoelectric Prosthesis with Sensory Feedback by Amputees. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2133-2145. | 4.9 | 66 |

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|----|--|-----|-----------|
| 19 | Temporal and Spatial Variability of Surface Motor Activation Zones in Hemiplegic Patients During Functional Electrical Stimulation Therapy Sessions. Artificial Organs, 2017, 41, E166-E177. | 1.9 | 11 |
| 20 | Reinforcement Learning for Hand Grasp with Surface Multi-field Neuroprostheses. Advances in Intelligent Systems and Computing, 2017, , 313-322. | 0.6 | 1 |
| 21 | Dynamic Stimulation Patterns for Conveying Proprioceptive Information from Multi-DOF Prosthesis. Biosystems and Biorobotics, 2017, , 601-605. | 0.3 | 4 |
| 22 | Game-Based Assessment in Upper-Limb Post-stroke Telerehabilitation. Biosystems and Biorobotics, 2017, , 413-417. | 0.3 | 6 |
| 23 | Helping Hand grasp rehabilitation: Preliminary assessment on chronic stroke patients. , 2017, , . | | 1 |
| 24 | Novel multi-pad functional electrical stimulation in stroke patients: A single-blind randomized study. NeuroRehabilitation, 2017, 41, 791-800. | 1.3 | 19 |
| 25 | A decision support system for electrode shaping in multi-pad FES foot drop correction. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 66. | 4.6 | 22 |
| 26 | ArmAssist Robotic System versus Matched Conventional Therapy for Poststroke Upper Limb Rehabilitation: A Randomized Clinical Trial. BioMed Research International, 2017, 2017, 1-7. | 1.9 | 37 |
| 27 | Clinical Trial Protocol for Analyzing the Effect of the Intensity of FES-Based Therapy on Post-stroke Foot Drop. Biosystems and Biorobotics, 2017, , 655-659. | 0.3 | 0 |
| 28 | Evolution of surface motor activation zones in hemiplegic patients during 20 sessions of FES therapy with multi-pad electrodes. European Journal of Translational Myology, 2016, 26, 6059. | 1.7 | 10 |
| 29 | Electrotactile feedback improves performance and facilitates learning in the routine grasping task. European Journal of Translational Myology, 2016, 26, 6069. | 1.7 | 37 |
| 30 | Integrated and flexible multichannel interface for electrotactile stimulation. Journal of Neural Engineering, 2016, 13, 046014. | 3.5 | 82 |
| 31 | Design of a spring-assisted exoskeleton module for wrist and hand rehabilitation. , 2016, 2016, 594-597. | | 7 |
| 32 | Evaluation of upper extremity neurorehabilitation using technology: a European Delphi consensus study within the EU COST Action Network on Robotics for Neurorehabilitation. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 86. | 4.6 | 22 |
| 33 | Neuro-fuzzy models for hand movements induced by functional electrical stimulation in able-bodied and hemiplegic subjects. Medical Engineering and Physics, 2016, 38, 1214-1222. | 1.7 | 7 |
| 34 | Post-stroke Robotic Upper-Limb Telerehabilitation Using Serious Games to Increase Patient Motivation: First Results from ArmAssist System Clinical Trial. Biosystems and Biorobotics, 2016, , 63-78. | 0.3 | 7 |
| 35 | Workshop on Transcutaneous Functional Electrical Stimulation. Biosystems and Biorobotics, 2016, , 273-301. | 0.3 | 1 |
| 36 | Feasibility of Using Neuro-Fuzzy Subject-Specific Models for Functional Electrical Stimulation Induced Hand Movements. IFAC-PapersOnLine, 2015, 48, 321-326. | 0.9 | 2 |

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| 37 | Recording and assessment of evoked potentials with electrode arrays. Medical and Biological Engineering and Computing, 2015, 53, 857-867. | 2.8 | 3 |
| 38 | Validating ArmAssist Assessment as outcome measure in upper-limb post-stroke telerehabilitation. , 2015, 2015, 4623-6. | | 7 |
| 39 | Multi-pad stimulation device for treating foot drop: Case study. , 2014, , . | | 3 |
| 40 | Transcutaneous FES-induced pain maps on post-stroke upper limb: Preliminary study. , 2014, , . | | 1 |
| 41 | Gait phase detection optimization based on variational bayesian inference of feedback sensor signal. , 2014, , . | | 3 |
| 42 | Serious Games for Assessment and Training in Post-stroke Robotic Upper-limb Telerehabilitation. , 2014, , , | | 5 |
| 43 | Improving the match between ability and challenge: Toward a framework for automatic level adaptation in game-based assessment and training. , 2013, 2013, 6650420. | | 5 |
| 44 | Multi-Pad Electrode for Effective Grasping: Design. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 648-654. | 4.9 | 54 |
| 45 | Surfaceâ€distributed lowâ€frequency asynchronous stimulation delays fatigue of stimulated muscles. Muscle and Nerve, 2013, 48, 930-937. | 2.2 | 60 |
| 46 | Development of a powered mobile module for the ArmAssist home-based telerehabilitation platform. , 2013, 2013, 6650424. | | 9 |
| 47 | ArmAssist: An Integrated Solution for Telerehabilitation of Post-stroke Arm Impairment. Biosystems and Biorobotics, 2013, , 951-955. | 0.3 | 2 |
| 48 | Consistent Arm Rehabilitation from Clinical to Home Environment - Integrating the Universal Haptic Drive into the TeleReha Software Platform. Biosystems and Biorobotics, 2013, , 1013-1017. | 0.3 | 1 |
| 49 | ArmAssist: Development of a functional prototype for at-home telerehabilitation of post-stroke arm impairment. , 2012, , . | | 25 |
| 50 | Automatic determination of parameters for multipad functional electrical stimulation: Application to hand opening and closing. , 2012, 2012, 1859-63. | | 15 |
| 51 | sEMG-based detection of poor posture: A feasibility study. , 2012, 2012, 1210-3. | | 3 |
| 52 | Neck rotation modulates flexion synergy torques, indicating an ipsilateral reticulospinal source for impairment in stroke. Journal of Neurophysiology, 2012, 108, 3096-3104. | 1.8 | 61 |
| 53 | A multi-pad electrode based functional electrical stimulation system for restoration of grasp. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 66. | 4.6 | 130 |
| 54 | Development of computer games for assessment and training in post-stroke arm telerehabilitation. , 2012, 2012, 4571-4. | | 17 |

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| 55 | The effect of visual cues on the number and duration of freezing episodes in Parkinson's patients. , 2012, 2012, 4656-9. | | 21 |
| 56 | Variable Stiffness Structure for limb attachment. , 2011, 2011, 5975350. | | 13 |
| 57 | Absolute position calculation for a desktop mobile rehabilitation robot based on three optical mouse sensors. , 2011, 2011, 2069-72. | | 6 |
| 58 | Telerehabilitation: Toward a cost-efficient platform for post-stroke neurorehabilitation. , 2011, 2011, 5975413. | | 22 |
| 59 | Taking Sides with Pain – Lateralization aspects Related to Cerebral Processing of Dental Pain. Frontiers in Human Neuroscience, 2011, 5, 12. | 2.0 | 37 |
| 60 | Electrical stimulation for the suppression of pathological tremor. Medical and Biological Engineering and Computing, 2011, 49, 1187-1193. | 2.8 | 103 |
| 61 | Detection and removal of stimulation artifacts in electroencephalogram recordings. , 2011, 2011, 7159-62. | | 14 |
| 62 | Variable structure pantograph mechanism with spring suspension system for comprehensive upper-limb haptic movement training. Journal of Rehabilitation Research and Development, 2011, 48, 317. | 1.6 | 14 |
| 63 | The Influence of Electrode Size on Selectivity and Comfort in Transcutaneous Electrical Stimulation of the Forearm. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 255-262. | 4.9 | 72 |
| 64 | Wearable Neural Prostheses. IEEE Engineering in Medicine and Biology Magazine, 2010, 29, 64-69. | 0.8 | 42 |
| 65 | A variable structure pantograph mechanism for comprehensive upper extremity haptic movement training. , 2010, 2010, 5859-62. | | 3 |
| 66 | Influence on walking dynamics of a gait training device that is connected through a lumbar belt. , 2009, , . | | 0 |
| 67 | Cortical and subcortical correlates of functional electrical stimulation of wrist extensor and flexor muscles revealed by fMRI. Human Brain Mapping, 2009, 30, 963-975. | 3.6 | 74 |
| 68 | Array electrode design for transcutaneous electrical stimulation: A simulation study. Medical Engineering and Physics, 2009, 31, 945-951. | 1.7 | 52 |
| 69 | A model for transcutaneous current stimulation: simulations and experiments. Medical and Biological Engineering and Computing, 2009, 47, 279-289. | 2.8 | 82 |
| 70 | Interindividual differences in the perception of dental stimulation and related brain activity. European Journal of Oral Sciences, 2009, 117, 27-33. | 1.5 | 32 |
| 71 | Brain-computer interface based on high frequency steady-state visual evoked potentials: A feasibility study. , 2009, , . | | 10 |
| 72 | Motor Training of Upper Extremity With Functional Electrical Stimulation in Early Stroke Rehabilitation. Neurorehabilitation and Neural Repair, 2009, 23, 184-190. | 2.9 | 67 |

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|----|---|-----|-----------|
| 73 | Power spectral distribution analysis for detection of freezing of gait in patients with Parkinson's disease. IFMBE Proceedings, 2009, , 2089-2092. | 0.3 | 7 |
| 74 | Skin properties and the influence on electrode design for transcutaneous (surface) electrical stimulation. IFMBE Proceedings, 2009, , 492-495. | 0.3 | 4 |
| 75 | Rehabilitation Robotics for Outpatient Clinical and Domestic Use. IFMBE Proceedings, 2009, , 291-294. | 0.3 | 1 |
| 76 | Assessment of Finger Forces and Wrist Torques for Functional Grasp Using New Multichannel Textile Neuroprostheses. Artificial Organs, 2008, 32, 634-638. | 1.9 | 18 |
| 77 | Improving patient motivation in game development for motor deficit rehabilitation. , 2008, , . | | 163 |
| 78 | Design and construction of a magnetic resonance compatible multi-injector gas jet delivery system. Review of Scientific Instruments, 2008, 79, 014301. | 1.3 | 5 |
| 79 | Electrodes for transcutaneous (surface) electrical stimulation. Journal of Automatic Control, 2008, 18, 35-45. | 1.0 | 101 |
| 80 | New Technologies and Concepts for Rehabilitation in the Acute Phase of Stroke: A Collaborative Matrix. Neurodegenerative Diseases, 2007, 4, 57-69. | 1.4 | 16 |
| 81 | Dynamic force-sharing in multi-digit task. Clinical Biomechanics, 2006, 21, 138-146. | 1.2 | 15 |
| 82 | New Multi-Channel Transcutaneous Electrical Stimulation Technology for Rehabilitation. , 2006, 2006, 194-7. | | 34 |
| 83 | Modular transcutaneous functional electrical stimulation system. Medical Engineering and Physics, 2005, 27, 81-92. | 1.7 | 81 |
| 84 | Overcoming Abnormal Joint Torque Patterns in Paretic Upper Extremities Using Triceps Stimulation. Artificial Organs, 2005, 29, 229-232. | 1.9 | 25 |
| 85 | Transcutaneous functional electrical stimulation for grasping in subjects with cervical spinal cord injury. Spinal Cord, 2005, 43, 1-13. | 1.9 | 112 |
| 86 | Compex Motion: neuroprosthesis for grasping applications. , 2004, , 197-215. | | 2 |
| 87 | Sliding Mode Closed-Loop Control of FES: Controlling the Shank Movement. IEEE Transactions on Biomedical Engineering, 2004, 51, 263-272. | 4.2 | 162 |
| 88 | A Reliable Gyroscope-Based Gait-Phase Detection Sensor Embedded in a Shoe Insole. IEEE Sensors Journal, 2004, 4, 268-274. | 4.7 | 172 |
| 89 | Robotic Orthosis Lokomat: A Rehabilitation and Research Tool. Neuromodulation, 2003, 6, 108-115. | 0.8 | 391 |
| 90 | Neuroprostheses for grasping. Neurological Research, 2002, 24, 443-452. | 1.3 | 149 |

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| 91 | A NOVEL SLIDING MODE CONTROLLER FOR FUNCTIONAL ELECTRICAL STIMULATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 199-203. | 0.4 | 5 |
| 92 | Transcutaneous Functional Electrical Stimulator "Compex Motion― Artificial Organs, 2002, 26, 219-223. | 1.9 | 67 |
| 93 | A reliable gait phase detection system. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2001, 9, 113-125. | 4.9 | 403 |
| 94 | Functional electrical stimulation for grasping and walking: indications and limitations. Spinal Cord, 2001, 39, 403-412. | 1.9 | 113 |
| 95 | Surface-stimulation technology for grasping and walking neuroprostheses. IEEE Engineering in Medicine and Biology Magazine, 2001, 20, 82-93. | 0.8 | 119 |
| 96 | Stability criterion for controlling standing in able-bodied subjects. Journal of Biomechanics, 2000, 33, 1359-1368. | 2.1 | 54 |
| 97 | Grasping in high lesioned tetraplegic subjects using the EMG controlled neuroprosthesis. NeuroRehabilitation, 1998, 10, 251-255. | 1.3 | 12 |
| 98 | Grasping in high lesioned tetraplegic subjects using the EMG controlled neuroprosthesis. NeuroRehabilitation, 1998, 10, 251-255. | 1.3 | 17 |
| 99 | Effective Game use in Neurorehabilitation. Advances in Game-based Learning Book Series, 0, , 683-725. | 0.2 | 27 |
| 100 | Design of multiâ€pad electrotactile system envisioned as a feedback channel for supernumerary robotic limbs. Artificial Organs, 0, , . | 1.9 | 2 |