

Curriculum Vitae

Ms Winnie Jensen

PRIVATE INFORMATION

Nationality/Citizenship: Danish
Female, born 181170

Private address:

Th. V. Gardesvej 15, 9220 Aalborg, Denmark
Phone: +45 23983042

Work address:

Aalborg University
Faculty of Medicine
Dept. of Health Science and Technology
Center for Sensory-Motor Interaction
Fredrik Bajersvej 7D-3, 9220 Aalborg, Denmark
Phone +45 96359825
Email: wj@hst.aau.dk



DEGREES

- | | |
|------|---|
| 2001 | Ph.D. in Biomedical Science and Engineering, Faculty of Engineering and Science, Aalborg University (22 nd march 2001). Title of Ph.D.-thesis: Muscle Afferent Signals for FES Systems). |
| 1996 | Master of Science in Systems Construction with specialization in medical informatics, Aalborg University (oct 17 th 1996). Title of masters thesis: Characterization of the calcaneal and sural ENG during standing – An experimental study. |

PROFESSIONAL EXPERIENCE AND TRAINING

Occupation

- | | |
|-----------|---|
| 2014 -> | Prof. at dept. Health Science and Technology, Aalborg University |
| 2006-2014 | Associate prof. at dept. Health Science and Technology, Aalborg University |
| 2003-2006 | Assistant prof. at Bioengineering Dept., University of Illinois at Chicago, USA |
| 2005-2006 | Research associate professor at dept. Health Science and Technology, Aalborg University |
| 2003-2005 | Post-doctoral fellow, Dept. Bioengineering, University of Illinois at Chicago, USA |
| 2001-2003 | Research assistant professor at dept. Health Science and Technology, Aalborg University |

Appointments

- | | |
|--------|---|
| 2013-> | AAU Expert within neural prosthesis, neurorehabilitation, implantable electrodes, animal models |
| 2014-> | Appointed member to Akademiet for Tekniske Videnskaber (ATV) (since jan 2014) |

2012→ Head of study board for Health, Technology and Sports Science

Research management expertise

2013→ Project coordinator of EU FP7 STREP project (EPIONE, HEALTH-2013-innovation1)
 2008-2013 Project coordinator of EU FP7 STREP project ('TIME', ICT-2008-224012)
 2010→ Head of the 'Neural Engineering and Neurophysiology' group
 2006→ Head of 'Bioelectronics Systems and Electrophysiology Laboratory'
 2006-2009 Team leader of national research project funded through the Advanced Danish High Technology Fund
 2003-2005 Project leader of Marie Curie Outgoing international fellowship program (grant # 509874)

Training

2011-2012 Course on Management of Researchers – Research Management (Ledelse af Forskere – Forskningsledelse,) Aalborg University (Winter 2011 – Spring 2012)
 2012 Course on Employee Development Interview (Medarbejder udviklings samtale), Aalborg University (Sept 18th 2012).

FUNDING

Research projects granted as primary investigator (total amount: 11.2mio Euro)

2014	670.000€	Bevica Fonden	Funds to establish "Bevica Center for Neurorehabilitation of Stroke patients". Joint project/center establishment by Winnie Jensen and Ole Kæseler Andersen
2013	6 mio €	EU FP7	Winnie Jensen is project coordinator STREP project. 'EPIONE' (HEALTH-2013-innovation1)
2008	3.6 mio €	EU FP7	Winnie Jensen is project coordinator STREP project. 'TIME'(ICT-2008-224012). www.project-time.eu
2006	480.000€	Danish National Advanced Technology Foundation.	Grant (005-2005-1). Total amount funded for the consortium: dkr. 35 mio. Joint venture project 'Implantable NeuralProsthesis' between Neurodan A/S and Aalborg University. Project responsible Winnie Jensen, amount dkr. 4.9 mio.
2004	275.000€	FP6. EU Marie Curie Outgoing International Fellowship	'From sensation to action. Moving towards advanced neural rehabilitation devices' (SENSOACT). Project # 509874
2002	170.000€	The Danish Technical Research Council (STVF),	'System Level Analysis of EEG, EMG and ENG Motor Behavior Responses using Implanted Multi-Channel Electrode Arrays - Moving Towards Advanced Prosthetic Devices. Project #26-02-0122

Other funding granted as primary investigator (total amount: 0.195 mio Euro)

2013	67.000€	Det Obelske Familiefond, Aalborg, Denmark & Aalborg University	Funding for 64 ch data acquisition equipment
2011	30.000€	Bevica fonden, Denmark	Funding for participation of Danish patient in international research project (EU project TIME)
2011	6.700€	EIR, Aalborg university, Denmark	Travel to Italy, collaboration with rehabilitation hospital (EU project TIEM)
2009	10.000€	Det Obelske Familiefond, Aalborg, Denmark & Aalborg University	Purchase of tflIFE electrodes
2008	8.500€	Det Obelske Familiefond, Aalborg, Denmark & Aalborg University	Purchase of computer and data acquisition equipment
2007	34.700€	Det Obelske Familiefond, Aalborg, Denmark & Aalborg University	Purchase of animal telemetry system and video analysis system

2006	1.400€	The Faculty of Engineering and Science, Aalborg University, Denmark	Conference participation, IEEE conference in New York, USA Sept 2006
2005	14.400€	Det Obelske Familiefond, Aalborg, Denmark & Aalborg University	Purchase of stimulation equipment (Multichannel Systems, Germany).
2004	1.400€	The Faculty of Engineering and Science, Aalborg University, Denmark	Conference participation, IEEE conference in San Francisco, USA Sept 2004
2003	14.000€	Det Obelske Familiefond, Aalborg, Denmark & Aalborg University	Purchase of recording equipment (Tucker Davis Technologies, USA).
1999	6.000€	Direktør A.N. Neergaards og Hustrus Fond, Lyngby, Denmark	Funding for completion of Ph.D-work at Aalborg University.
1998	1.400€	The International Doctoral School, Aalborg University	Funding for Ph.D.-course activity at Aalborg University.

Funding granted as co-investigator (total amount: 0.716 mio Euro)

2014	26.000€	Det Obelske Familiefond, Aalborg, Denmark & Aalborg University	Purchase of medical grade stimulation system (64ch). Main applicant: Bo Geng
2014	3.800€	EIR, Aalborg University, Denmark	Sponsorship for ICNR2014 conference (www.icnr2014.org). Co-applicant: Ole Kæseler Andersen
2013	200.000€	Danish Agency for Science, Technology and Innovation	Co-PI on FTP post-doc + Sapere Aude grant awarded 2013, Main applicant: Bo Geng
2012	1.500€	Det Obelske Familiefond, Aalborg, Denmark & Aalborg University, Aalborg, Denmark	Funding for research equipment Main applicant: Kristian Rauhe Harreby
2012	23.200€	Det Obelske Familiefond, Aalborg, Denmark & Aalborg University, Aalborg, Denmark	Funding for research equipment Main applicant: Kristian Rauhe Harreby
2012	11.800€	Spar Nord Fonden	Funding for research equipment Main applicant: Kristian Rauhe Harreby
2010	450.000€	Danish Agency for Science, Technology and Innovation	Co-PI on FTP post-doc grant awarded 2010, Main applicant: Ernest N Kamavuako.

DOCTORAL SUPERVISION

- Main supervisor for 6 Ph.D students
 - Ernest Kamvuako (2006-2009), Aritra Kundu (2008-2013), Bo Geng (2008-2013), Sofyan Hammad (2010-present), Jianhang Jiao (2012-present) and Rasmus Kragh Nielsen (2013-present)
- Co-supervisor for 2 Ph.D-students
 - Mathijs Kurstjens (2008-2010), Vahid Schylchan (2010-2013)
- Main supervisor for 4 post-docs/assistant professors
 - Mathijs Kurstjens (2010-2012), Ernest Kamavuako (2010-present), Kristian Rauhe Harreby (2010-present), Bo Geng (2013-present)
- IDA Mentor (2012, 2014)

SERVICES TO THE SCIENTIFIC COMMUNITY & DISSEMINATION QUALIFICATIONS

Co-funder of the Center for NeuroEngineering Solutions in Stroke Rehabilitation
["https://smi.hst.aau.dk/research/units/strokerehab/"](https://smi.hst.aau.dk/research/units/strokerehab/)

Symposium/workshop/conference organizer

- Organizer of International Conference on Neurorehabilitation (ICNR2014) – www.icnr2014.org
- Organizer of 5 symposia on 'Neural Engineering and Neurophysiology of movement' at AAU
- Co-organizer/member of scientific committees of 2 national and 2 international conferences

Memberships

- Member of the 'IEEE Engineering in Medicine and Biology' (since 1995)
- Member of the Society for Neuroscience (2006-2010)
- Member of the IFESS Society (2001-2004)
- Member of the working group for "Sundhedsteknologi 2020 – Engineering Life care" – Ingeniørforeningen (<http://ida.dk/content/sundhedsteknologi-2020-engineering-life-care>) (2011)

Invited speaker

International Conference on Neuroprosthetic Devices (ICNPD)-2011, Sydney, Australia (2011)
3rd International US-Turkey Advanced Institute on Global Healthcare Challenges (2012)
Smertekonferencen, Copenhagen, Denmark (2014)

Awards

Open Finalist in Student Paper Competition at the 18th Annual International Conference of the IEEE Engineering in Medicine and Biology, Amsterdam (1999).

PEER REVIEW

Peer-review of journal articles and conference proceedings

- Peer review of journal articles and international conferences (+40 papers in the period 2007 to present). Journals include: Transactions on Biomedical Engineering, Annals of Biomedical Engineering, IEEE Neural Engineering, Transactions on Neural Systems and Rehabilitation Engineering, Medical & Biological Engineering and Computing, IOP Journal of Neural Engineering, Restorative Neurology

Peer review of international grant proposals.

- 2008. ESF Research Conference Scheme and ESF Research Conference Series. European Science Foundation (1),
- 2009. The Belgian Agentschap voor Innovatie door Wetenschap en Technologie (1),
- 2011. Strategic grant. The British Medical Research Council, UK (1).

Peer review of book proposal

Book review (2014). Editors Dr. Roberto Merletti and Dr. Dario Farina "Surface Electromyography: Physiology, Engineering, and Applications."

Editor

Review editor for Frontiers in Neuroengineering (<http://www.frontiersin.org/Neuroengineering/>)

- define frameworks for people or projects

List of publications

Ms Winnie Jensen

Total number and overview of publications – see <http://personprofil.aau.dk/profil/103085>

(*) marks that the paper is attached to this application.

Journal articles

1. (*) Geng B & Jensen W (2014). 'Human ability in identification of location and pulse number for electrocutaneous stimulation applied on the forearm', *Journal of NeuroEngineering and Rehabilitation*, Vol. 11, 97.
2. Kundu A, Wrenfeldt M, Harreby KR & Jensen W (2014). 'Biosafety assessment of the Transverse Intrafascicular Multi-channel Electrode (TIME) following sub-chronic implantation in the median nerve of the Göttingen mini-pig'. *Journal of Artificial Organs*, Vol. 37, Nr. 6, 2014, s. 466-476.
3. (*) Harreby KR, Kundu A, Yoshida K, Boretius T, Stieglitz T & Jensen W. (2014) 'Sub-chronic stimulation performance of an intra-neural, multi-channel electrode (the 'TIME') in the median nerve of the Göttingen mini-pig'. Accepted for publication in *Journal of Artificial Organs*. [Epub ahead of print].
4. Carotti ESG, Shalchyan V, Jensen W, & Farina, D. (2014) "Denoising and compression of intracortical signals with a modified MDL criterion. *Medical & Biological Engineering & Computing*, Vol. 52, no. 5, pp 429-435.
5. Raspopovic S, Capogrosso M, Petrini FM, Bonizzato M, Rigosa J, Pino GD, Carpaneto J, Controzzi M, Boretius T, Fernandez E, Granata G, Oddo CM, Citi L, Ciancio AL, Cipriani C, Carrozza MC, Jensen W, Guglielmelli E, Stieglitz T, Rossini PM & Micera S (2014), 'Restoring natural sensory feedback in real-time bidirectional hand prostheses' *Science Translational Medicine*, vol 6, no. 222, pp. 222.
6. (*) Kundu A, Harreby K, Yoshida K, Boretius T, Stieglitz T & Jensen W (2014) 'Stimulation selectivity of the Thin-film longitudinal intrafascicular electrode (tLIFE) and the transverse intrafascicular multi-channel electrode (TIME) in the large nerve animal model, *IEEE Trans Neural Syst Rehabil Eng*, Vol. 22, no. 2, pp. 400-410.
7. (*) Hammad SHH, Farina D, Kamavuako EN & Jensen, W (2013) 'Identification of a self-paced hitting task in freely moving rats based on adaptive spike detection from multi-unit M1 cortical signals', *Frontiers in Neuroengineering*, vol 6, 11, <http://dx.doi.org/10.3389/fneng.2013.00011>
8. Jiao J, Jensen W, Harreby KR, Lykholt LE, Ganeswarathas S & Sevcencu C (2013) 'The effect of spinal cord stimulation on epileptic seizures suppression' *Biomedizinische Technik*, vol 58, no. Suppl. 1, <http://dx.doi.org/10.1515/bmt-2013-4011>
9. Kamavuako EN, Rosenvang JC, Bøg MF, Smidstrup A, Erkocevic E, Niemeier MJ, Jensen W & Farina D (2013), 'Influence of the feature space on the estimation of hand grasping force from intramuscular EMG' *Biomedical Signal Processing and Control*, vol 8, no. 1, pp. 1-5., <http://dx.doi.org/10.1016/j.bspc.2012.05.002>
10. Kamavuako EN, Rosenvang JC, Horup RW, Jensen W, Farina D & Englehart K (2013). 'Surface versus untargeted intramuscular EMG based classification of simultaneous and dynamically changing movements' *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, vol 21, no. 6, pp. 992-998, <http://dx.doi.org/10.1109/TNSRE.2013.2248750>
11. (*) Nielsen RK, Samson KL, Simonsen D & Jensen W (2013). 'Effect of early and late rehabilitation onset in a chronic rat model of ischemic stroke: assessment of motor cortex signaling and gait functionality over time' *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, vol 21, no. 6, pp. 1006-1015, <http://dx.doi.org/10.1109/TNSRE.2013.2279375>
12. Geng B, Yoshida K, Petrini L & Jensen W (2012), 'Evaluation of sensation evoked by electrocutaneous stimulation on forearm in nondisabled subjects' *Journal of Rehabilitation Research and Development*, vol 49, no. 2, pp. 297-308, <http://dx.doi.org/10.1682/JRRD.2010.09.0187>

13. Kamavuako EN, Farina D, Yoshida K & Jensen W (2012). 'Estimation of grasping force from features of intramuscular EMG signals with mirrored bilateral training' *Annals of Biomedical Engineering*, vol 40, no. 3, pp. 648-656, <http://dx.doi.org/10.1007/s10439-011-0438-7>
14. Kamavuako EN, Englehart KB, Jensen W & Farina D (2012). 'Simultaneous and proportional force estimation in multiple degrees of freedom from intramuscular EMG' *IEEE Transactions on Biomedical Engineering*, vol 59, no. 7, pp. 1804-1807, <http://dx.doi.org/10.1109/TBME.2012.2197210>
15. Sergi PN, Jensen W, Micera S & Yoshida K (2012). 'In vivo interactions between tungsten microneedles and peripheral nerves' *Medical Engineering & Physics*, vol 34, no. 6, pp. 747-755, <http://dx.doi.org/10.1016/j.medengphy.2011.09.019>
16. Shalchyan V, Jensen W & Farina D (2012). 'Spike detection and clustering with unsupervised wavelet optimization in extracellular neural recordings' *IEEE Transactions on Biomedical Engineering*, vol 59, no. 9, pp. 2576-2585, <http://dx.doi.org/10.1109/TBME.2012.2204991>
17. Stieglitz T, Boretius T, Navarro X, Badia J, Guiraud D, Divoux J-L, Micera S, Rossini PM, Yoshida K, Harreby KR, Kundu A & Jensen W (2012). 'Development of a neurotechnological system for relieving phantom limb pain using transverse intrafascicular electrodes (TIME)' *Biomedizinische Technik*, vol 57, no. 6, pp. 457-465, <http://dx.doi.org/10.1015/bmt-2011-0140>
18. Geng B, Harreby KR, Kundu A, Yoshida K, Boretius T, Stieglitz T, Passama R, Guiraud D, Divoux JL, Benvenuto A, Di Pino G, Guglielmelli E, Rossini PM & Jensen W (2011). 'Developments towards a psychophysical testing platform: a computerized tool to control, deliver and evaluate electrical stimulation to relieve phantom limb pain' *International Federation for Medical and Biological Engineering Proceedings*, vol 34, pp. 137-140, http://dx.doi.org/10.1007/978-3-642-21683-1_34
19. Geng B, Yoshida K & Jensen W (2011). 'Impacts of selected stimulation patterns on the perception threshold in electrocutaneous stimulation' *Journal of NeuroEngineering and Rehabilitation*, vol 8, pp. Article No. 9, <http://dx.doi.org/10.1186/1743-0003-8-9>
20. Kamavuako EN, Farina D & Jensen W (2011). 'Use of sample entropy extracted from intramuscular EMG signals for the estimation of force' *International Federation for Medical and Biological Engineering Proceedings*, vol 34, pp. 125-128., http://dx.doi.org/10.1007/978-3-642-21683-1_31
21. Fjeldborg LC, Nielsen MV, Ottesen KJG & Jensen W (2010). 'Characterization of peri-infarct, intra-cortical motor cortex responses during reaching task in a chronic animal model of ischemic stroke' *Artificial Organs*, vol 34, no. 8, pp. A37, No. 55, <http://dx.doi.org/10.1111/j.1525-1594.2010.01075.x>
22. Geng B, Yoshida K & Jensen W (2010). 'Effects of the number of pulses on evoked sensations in pairwise electrocutaneous stimulation' *Artificial Organs*, vol 34, no. 8, pp. A39, No. 67, <http://dx.doi.org/10.1111/j.1525-1594.2010.01075.x>
23. Kamavuako EN, Jensen W, Yoshida K, Kurstjens M & Farina D (2010). 'A criterion for signal-based selection of wavelets for denoising intrafascicular nerve recordings' *Journal of Neuroscience Methods*, vol 186, no. 2, pp. 274-280., <http://dx.doi.org/10.1016/j.jneumeth.2009.11.022>
24. Kundu A, Jensen W, Kurstjens M, Stieglitz T, Boretius T & Yoshida K (2010). 'Dependence of implantation angle of the transverse, intrafascicular electrode (TIME) on selective activation of pig forelimb muscles' *Artificial Organs*, vol 34, no. 8, pp. A43, No. 92., <http://dx.doi.org/10.1111/j.1525-1594.2010.01075.x>
25. Kundu A, Jensen W, Kurstjens M, Stieglitz T, Boretius T & Yoshida K (2010). 'Development of an implantable myoelectric sensor for advanced prosthesis control' *Artificial Organs*, vol 34, no. 8, pp. A43, No. 94., <http://dx.doi.org/10.1111/j.1525-1594.2010.01075.x>
26. Kurstjens M & Jensen W (2010). 'Selectivity of longitudinal versus transverse tripolar stimulation of median nerve in pigs using a multicontact nerve cuff electrode' *Artificial Organs*, vol 34, no. 8, pp. A40, No. 71., <http://dx.doi.org/10.1111/j.1525-1594.2010.01075.x>
27. Yoshida K, Farina D, Akay M & Jensen W (2010). 'Multichannel intraneural and intramuscular techniques for multiunit recording and use in active prostheses: analysis of the development and experimental efforts on neural prosthetic interfaces and their potential application in hand prostheses' *Proceedings of the IEEE*, vol 98, no. 3, pp. 432-449., <http://dx.doi.org/10.1109/JPROC.2009.2038613>

28. Kamavuako EN, Farina D, Yoshida K & Jensen W (2009). 'Relationship between grasping force and features of single-channel intramuscular EMG signals' *Journal of Neuroscience*, vol 185, no. 1, pp. 143-150., <http://dx.doi.org/10.1016/j.jneumeth.2009.09.006>
29. Kamavuako EN, Yoshida K & Jensen W (2009). 'Variance-based signal conditioning technique: comparison to a wavelet-based technique to improve spike detection in multiunit intrafascicular recordings' *Biomedical Signal Processing and Control*, vol 4, no. 2, pp. 118-126., <http://dx.doi.org/10.1016/j.bspc.2009.01.006>
30. Ramrath L, Vogt S, Jensen W, Hofmann UG & Schweikard A (2009). 'Computer- and robot-assisted stereotaxy for high-precision small animal brain exploration' *Biomedizinische Technik*, vol 54, no. 1, pp. 8-13., <http://dx.doi.org/10.1515/bmt.2009.002>
31. Jensen W & Rousche P (2008). 'Tactile discrimination based on intracortical microstimulation in primary somatosensory cortex in Sprague-Dawley rats' *Biomedizinische Technik*, vol 53, no. Suppl. 1, pp. 302-304.
32. Kurstjens M, Jensen W & Yoshida K (2008). 'Selective activation of pig forearm muscles using thin-film intrafascicular electrodes implanted in the median nerve' *Biomedizinische Technik*, vol 53, no. Suppl. 1, pp. 279-281.
33. Rousche P, Schneeweis DM, Perreault EJ & Jensen W (2008). 'Translational neural engineering: multiple perspectives on bringing benchtop research into the clinical domain' *Journal of Neural Engineering*, vol 5, no. 1, pp. P16-P20., <http://dx.doi.org/10.1088/1741-2560/5/1/P02>
34. Chiganos TC, Jensen W & Rousche PJ (2006). 'Electrophysiological response dynamics during focal cortical infarction' *Journal of Neural Engineering*, vol 3, no. 4, pp. L15-L22., <http://dx.doi.org/10.1088/1741-2560/3/4/L01>
35. Hofmann UG, Folkers A, Mösch F, Malina T, Menne KML, Biella G, Fagerstedt P, De Schutter E, Jensen W, Yoshida K, Hoehl D, Thomas U, Kindlundh MG, Norlin P & de Curtis M (2006). 'A novel high channel-count system for acute multisite neuronal recordings' *IEEE Transactions on Biomedical Engineering*, vol 53, no. 8, pp. 1672-1677., <http://dx.doi.org/10.1109/TBME.2006.877807>
36. Jensen W, Yoshida K & Hofmann UG (2006). 'In-vivo implant mechanics of flexible, silicon-based ACRES microelectrode arrays in rat cerebral cortex' *IEEE Transactions on Biomedical Engineering*, vol 53, no. 5, pp. 934-940., <http://dx.doi.org/10.1109/TBME.2006.872824>
37. Jensen W & Rousche PJ (2006). 'On variability and use of rat primary motor cortex responses in behavioral task discrimination' *Journal of Neural Engineering*, vol 3, no. 1, pp. L7-L13., <http://dx.doi.org/10.1088/1741-2560/3/1/L02>
38. Lawrence SM, Dhillon GS, Jensen W, Yoshida K & Horch KW (2004). 'Acute peripheral nerve recording characteristics of polymer-based longitudinal intrafascicular electrodes' *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, vol 12, no. 3, pp. 345-348.
39. Cavallaro E, Micera S, Dario P, Jensen W & Sinkjær T (2003). 'On the intersubject generalization ability in extracting kinematic information from afferent nervous signals' *IEEE Transactions on Biomedical Engineering*, vol 50, no. 9, pp. 1063-1073.
40. Hofmann UG, Jensen W, Yoshida K, Kindlundh M & Norlin P (2002). 'Silizium Vielfach-Mikrosonden für die Neurowissenschaften' *Focus M U L*, vol 19, no. 3, pp. 132-139.
41. Jensen W, Sinkjær T & Sepulveda F (2002). 'Improving signal reliability for on-line joint angle estimation from nerve cuff recordings of muscle afferents' *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, vol 10, no. 3, pp. 133-139., <http://dx.doi.org/10.1109/TNSRE.2002.802851>

42. Jensen W & Sinkjær T (2001). 'Effect of agonist-antagonist electrical stimulation on muscle afferent recordings in anesthetized rabbits' *Neuromodulation*, vol 4, no. 3, pp. 127-137., <http://dx.doi.org/10.1046/j.1525-1403.2001.00127.x>
43. Jensen W, Lawrence SM, Riso RR & Sinkjær T (2001). 'Effect of initial joint position on nerve cuff recordings of muscle afferents in rabbits' *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, vol 9, no. 3, pp. 265-273.
44. Micera S, Jensen W, Sepulveda F, Riso RR & Sinkjær T (2001). 'Neuro-fuzzy extraction of angular information from muscle afferents for ankle control during standing in paraplegic subjects: an animal model' *IEEE Transactions on Biomedical Engineering*, vol 48, no. 7, pp. 787-794.
45. Jensen W, Riso RR & Sinkjær T (2000). 'Effect of intertrial delay on whole nerve cuff recordings of muscle afferents in rabbits' *Neuromodulation*, vol 3, no. 1, pp. 43-53.
46. Riso RR, Mosallaie FK, Jensen W & Sinkjær T (2000). 'Nerve cuff recordings of muscle afferent activity from tibial and peroneal nerves in rabbit during passive ankle motion' *IEEE transactions on rehabilitation engineering*, vol 8, no. 2, pp. 244-258.
47. Nielsen KD, Kjær A, Jensen W, Dyrby T, Andreassen LNS, Andersen J & Andreassen S (1997). 'Causal probabilistic network and power spectral estimation used in sleep stage classification' *Methods of Information in Medicine*, vol 36, pp. 345-348.

Submitted journal articles – in peer review

1. Shalchyan V, Hammad S, Jensen W, Farina D, 'Enhancing Event Related Neural Response by Using Optimized Wavelets for Spike Detection'. Submitted to *Journal of Neural Engineering*, 2014.
2. Jensen W, Raspopovic S, Petrini F, Granata G, Di Pino G, Maciejcjasz P, Boretius T, Geng B, Andreu A, Harreby KR, Kundu A, Badia J, Souquet G, Charmeux JF, Miraglia F, Vecchio F, Ciancio A, Divoux JL, Guiraud D, Micera S, Navarro X, Stieglitz S, Yoshida K & Rossini PM. 'Sensory feedback generated by intraneural electrical stimulation of peripheral nerves drives cortical reorganization and relieves phantom limb pain: a case report'. Submitted for *Journal of Neuroscience*, August, 2014.
3. Hammad SHH, Kamavuako EN, Farina D & Jensen W, 'Simulation of a real-time brain computer interface to detect a self-paced hitting task. ' Submitted to *Artificial Organs*, August 2014.
4. Sergi PN, Jensen W & Yoshida K. 'A hybrid computational approach to model and predict tungsten microneedles reliability through local interactions with in vivo and in vitro peripheral nerves' Submitted to *PLOS ONE*, July 2014.
5. Jiao J, Sevcencu C, Harreby KR & Jensen W, The role of high-frequency oscillations during pentylenetetrazol-induced spike-and-wave and tonic-clonic seizures in rats. Submitted to *Epilepsy Reserach*, August 2014.

Conference contributions

1. Nielsen RK & Jensen W (2014). 'Novel approach for investigation of neuronal alterations following ischemic stroke in a rat model.' *Replace, Repair, Restore, Relieve : Bridging Clinical and Engineering Solutions in Neurorehabilitation: Proceedings of the 2nd International Conference on NeuroRehabilitation, ICNR2014, 24-26 June 2014, Aalborg, Denmark.* red. / Winnie Jensen; Ole Kæseler Andersen; Metin Akay. Springer, 2014. s. 591-599 (Biosystems and Biorobotics; Nr. 7).
2. Jiao J, Sevcencu C, Harreby KR & Jensen W. (2014). 'High-frequency oscillations in chemically induced spike-and-wave epileptic seizures.' *Replace, Repair, Restore, Relieve: Bridging Clinical and Engineering Solutions in Neurorehabilitation: Proceedings of the 2nd International Conference on NeuroRehabilitation, ICNR2014, 24-26 June 2014, Aalborg, Denmark.* red. / Winnie Jensen; Ole Kæseler Andersen; Metin Akay. Springer, 2014. s. 457-463 (Biosystems and Biorobotics; Nr. 7).
3. Rosenvang JC, Horup RW, Englehart K, Jensen W & Kamavuako EN (2013). 'Classification of simultaneous, dynamic motions with surface EMG'. In JL Pons, D Torricelli & M Pajaro (eds), *Converging Clinical and Engineering Research on Neurorehabilitation: International Conference on NeuroRehabilitation, ICNR 2012, 14-16 November 2012, Toledo, Spain.* vol. Part I, Springer, pp. 49-52. *Biosystems and Biorobotics*, vol. 1, , http://dx.doi.org/10.1007/978-3-642-34546-3_8

4. Harreby KR, Sevcencu C & Jensen W (2013), 'In vitro large polyfascicular nerve model for assessment of fascicular recruitment characteristics of peripheral nerve interfaces'. In JL Pons, D Torricelli & M Pajaro (eds), *Converging Clinical and Engineering Research on Neurorehabilitation: International Conference on NeuroRehabilitation, ICNR 2012*, 14-16 November 2012, Toledo, Spain. vol. Part I, Springer, pp. 403-407. Biosystems and Biorobotics, vol. 1, , http://dx.doi.org/10.1007/978-3-642-34546-3_65
5. Jiao J, Jensen W, Harreby KR, Lykholt LE, Ganeswarathas S & Sevcencu C (2013). 'The effect of spinal cord stimulation on epileptic seizures suppression'. In M Bijak, H Scharfetter, W Mayr & M Pichler (eds), *Proceedings of the 11th Vienna International Workshop on Functional Electrical Stimulation, FES (in the frame of 3-Länder-Tagung D-A-CH (BMT 2013))*, 18-21 September 2013, Graz, Austria. Medical University of Vienna, Vienna Medical School, Center for Medical Physics and Biomedical Engineering, pp. 23-24., <http://dx.doi.org/10.1515/bmt-2013-4011>
6. Maciejasz P, Badia J, Boretius T, Harreby KR, Jensen W, Stieglitz T, Navarro X & Guiraud D (2013). 'Comparison of stimulation selectivity in monopolar and bipolar configuration using the transversal intrafascicular multichannel electrode (TIME): preliminary results'. In JL Pons, D Torricelli & M Pajaro (eds), *Converging Clinical and Engineering Research on Neurorehabilitation: International Conference on NeuroRehabilitation, ICNR 2012*, 14-16 November 2012, Toledo, Spain. vol. Part I, Springer, pp. 79-83. Biosystems and Biorobotics, vol. 1, http://dx.doi.org/10.1007/978-3-642-34546-3_13
7. Routhe JS, Niemeier MJ, Riis HC, Schneider G & Jensen W (2013). 'Animal model to investigate the role of the motor cortex during treadmill locomotion in rats'. In JL Pons, D Torricelli & M Pajaro (eds), *Converging Clinical and Engineering Research on Neurorehabilitation: International Conference on NeuroRehabilitation, ICNR 2012*, 14-16 November 2012, Toledo, Spain. vol. Part I, Springer, pp. 335-339. Biosystems and Biorobotics, vol. 1, http://dx.doi.org/10.1007/978-3-642-34546-3_53
8. Boretius T, Yoshida K, Badia J, Harreby KR, Kundu A, Navarro X, Jensen W & Stieglitz T (2012). 'A transverse intrafascicular multichannel electrode (TIME) to treat phantom limb pain: towards human clinical trials'. *Proceedings of the 2012 4th IEEE RAS & EMBS International Conference on Biomedical Robotics and Biomechatronics*, 24-27 June, Rome, Italy.
9. Boretius T, Yoshida K, Badia J, Harreby KR, Kundu A, Navarro X, Jensen W & Stieglitz T (2012). 'A transverse intrafascicular multichannel electrode (TIME) to treat phantom limb pain: Towards human clinical trials'. In *Proceedings of the 2012 4th IEEE RAS & EMBS International Conference on Biomedical Robotics and Biomechatronics*, 24-27 June 2012, Rome, Italy. IEEE Press, pp. 282-287.
10. Carotti ESG, Jensen W, De Martin JC & Farina D (2012). 'MDL-based joint denoising and compression of intracortical signals'. In *2012 IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP*, 25-30 March 2012, Kyoto, Japan. IEEE, pp. 657-660. I E E E International Conference on Acoustics, Speech and Signal Processing. *Proceedings*, <http://dx.doi.org/10.1109/ICASSP.2012.6287969>
11. Hammad SHH, Corazzol M & Jensen W (2012), 'The effect of automatic simple thresholding for spike detection from multi-unit recordings on the classification of hitting task in rats'. In *IEEE EMBS International Conference on Biomedical Engineering and Sciences, IECBES*, 17-19 December 2012, Langkawi, Malaysia. IEEE, pp. 974-979., <http://dx.doi.org/10.1109/IECBES.2012.6498123>
12. Hammad SHH, Corazzol M, Kamavuako EN & Jensen W (2012). 'Wavelet denoising and ANN/SVM decoding of a self-paced forelimb movement based on multi-unit intra-cortical signals in rats'. In *IEEE EMBS International Conference on Biomedical Engineering and Sciences, IECBES*, 17-19 December 2012, Langkawi, Malaysia. IEEE, pp. 990-994., <http://dx.doi.org/10.1109/IECBES.2012.6498061>
13. Harreby KR, Kundu A, Geng B, Maciejasz P, Guiraud D, Stieglitz T, Boretius T, Yoshida K & Jensen W (2012). 'Recruitment selectivity of single and pairs of transverse, intrafascicular, multi-channel electrodes (TIME) in the pig median nerve'. Paper presented at, Banff, Alberta, Canada, 09/09/12 - 12/09/12,
14. Kundu A, Harreby KR & Jensen W (2012). 'Comparison of median and ulnar nerve morphology of Danish landrace pigs and Göttingen mini pigs'. Paper presented at, Banff, Alberta, Canada, 09/09/12 - 12/09/12,
15. Nielsen RK, Simonsen D, Sørensen LK & Jensen W (2012). 'Modulation of intracortical motor cortex responses during walking in rats'. Paper presented at, Banff, Alberta, Canada, 09/09/12 - 12/09/12,
16. Shalchyan V, Hammad SHH, Jensen W & Farina D (2012). 'Enhanced peri-event time histograms from intracortical recordings with matched wavelets for spike detection'. *International Conference on Neuroprosthetic Devices, ICNPD 2012*, Freiburg, Germany, 19/11/12 - 20/11/12,

17. Simonsen D, Sørensen KL, Nielsen RK & Jensen W (2012). 'Assessment of the effects of ischemic stroke on intracortical motor cortex responses during walking in rats'. Paper presented at, Banff, Alberta, Canada, 09/09/12 - 12/09/12,
18. Andersen MP, Munch M, Jensen W, Sørensen P & Eder CF (2011). 'Chronic cuff electrode recordings from walking Göttingen mini-pigs'. In 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, IEEE EMBS, EMBC, 30 August-3 September 2011, Boston, MA, USA. IEEE Press, pp. 2280-2283, No. 6090574. IEEE Engineering in Medicine and Biology Society. Conference Proceedings, , <http://dx.doi.org/10.1109/IEMBS.2011.6090574>
19. Geng B, Yoshida K & Jensen W (2011). 'A case study on phantom sensation and sensory discrimination induced by electrocutaneous stimulation'. In Annual Meeting of the Society for Neuroscience, Neuroscience 2011, 12-16 November 2011, Washington, DC, USA. Society for Neuroscience, Washington, DC, pp. No. 897.18/GG32.
20. Harreby KR, Kundu A, Boretius T, Stieglitz T, Yoshida K & Jensen W (2011). 'Evaluation of the stimulation selectivity of transverse intrafascicular multichannel electrodes in the chronic Göttingen mini-pig: preliminary results'. In Annual Meeting of the Society for Neuroscience, Neuroscience 2011, 12-16 November 2011, Washington, DC, USA. Society for Neuroscience, Washington, DC, pp. No. 495.23/TT15.
21. Kundu A, Harreby KR, Kurstjens M, Boretius T, Stieglitz T, Yoshida K & Jensen W (2011). 'Comparison of acute stimulation selectivity of transverse and longitudinal intrafascicular electrodes in pigs'. In Annual Meeting of the Society for Neuroscience, Neuroscience 2011, 12-16 November 2011, Washington, DC, USA. Society for Neuroscience, Washington, DC, pp. No. 495.07/SS31.
22. Fjeldborg LC, Nielsen MV, Ottesen KJG & Jensen W (2010). 'Characterization of peri-infarct, intra-cortical motor cortex responses during reaching task in a chronic animal model of ischemic stroke'. In T Mandl, J Martinek, M Bijak, H Lanmüller, W Mayr & M Pichler (eds), Proceedings of the 10th Vienna International Workshop on Functional Electrical Stimulation and 15th IFESS Annual Conference, 8-12 September, 2010, Vienna, Austria. Medical University of Vienna, Vienna Medical School, Center for Medical Physics and Biomedical Engineering, Vienna, pp. 154-156.
23. Geng B, Yoshida K & Jensen W (2010). 'Effects of the number of pulses on evoked sensations in pairwise electrocutaneous stimulation'. In T Mandl, J Martinek, M Bijak, H Lanmüller, W Mayr & M Pichler (eds), Proceedings of the 10th Vienna International Workshop on Functional Electrical Stimulation and 15th IFESS Annual Conference, 8-12 September, 2010, Vienna, Austria. Medical University of Vienna, Vienna Medical School, Center for Medical Physics and Biomedical Engineering, Vienna, pp. 306-308.
24. Geng B, Yoshida K & Jensen W (2010). 'Psychophysical evaluation of the effect of electrode location on sensations during electrocutaneous stimulation'. In Falla D & Farina D (eds), Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010, 16-19 June 2010, Aalborg, Denmark [CD-ROM]. Department of Health Science and Technology. Aalborg University, Aalborg, pp. No. P390.
25. Jensen W, Micera S, Navarro X, Stieglitz T, Guiraud D, Divoux JL, Rossini PM & Yoshida K (2010). 'Development of an implantable transverse intrafascicular multi-channel electrode (TIME) system for relieving phantom limb pain'. In 2010 Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), 31 August-4 September 2010, Buenos Aires, Argentina. IEEE Press, pp. 6214-6217. IEEE Engineering in Medicine and Biology Society. Conference Proceedings, <http://dx.doi.org/10.1109/IEMBS.2010.5627733>
26. Jensen W, Micera S, Navarro X, Stieglitz T, Guiraud D, Divoux J, Rossini PM & Yoshida K (2010). 'Transverse intrafascicular multichannel electrode (TIME) system for treatment of phantom limb pain in amputees'. In D Falla & D Farina (eds), Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010, 16-19 June 2010, Aalborg, Denmark [CD-ROM]. Department of Health Science and Technology. Aalborg University, Aalborg, pp. No. P507.
27. Kamavuako EN, Farina D, Yoshida K & Jensen W (2010). 'Control of a 2-DoF prosthetic hand using intramuscular EMG'. in D Falla & D Farina (eds), Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010, 16-19 June 2010, Aalborg, Denmark [CD-ROM]. Department of Health Science and Technology. Aalborg University, Aalborg.
28. Kundu A, Jensen W, Kurstjens M, Stieglitz T, Boretius T & Yoshida K (2010). 'Dependence of implantation angle of the transverse, intrafascicular electrode (TIME) on selective activation of pig forelimb muscles'. In T Mandl, J Martinek, M Bijak, H Lanmüller, W Mayr & M Pichler (eds), Proceedings of the 10th Vienna International Workshop on Functional Electrical Stimulation and 15th IFESS Annual Conference, 8-12 September, 2010, Vienna, Austria. Medical University of Vienna, Vienna Medical School, Center for Medical Physics and Biomedical Engineering, Vienna, pp. 315-317.

29. Kundu A, Jensen W & Yoshida K (2010). 'Estimation of fascicle count and diameter in pig median and ulnar peripheral nerves'. In D Falla & D Farina (eds), Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010, 16-19 June 2010, Aalborg, Denmark [CD-ROM]. Department of Health Science and Technology. Aalborg University, Aalborg, pp. No. P561.
30. Kurstjens M & Jensen W (2010). 'Selective activation of pig median nerve using a multipolar cuff electrode'. In D Falla & D Farina (eds), Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010, 16-19 June 2010, Aalborg, Denmark [CD-ROM]. Department of Health Science and Technology. Aalborg University, Aalborg.
31. Kurstjens M & Jensen W (2010). 'Selectivity of longitudinal versus transverse tripolar stimulation of median nerve in pigs using a multicontact nerve cuff electrode'. In T Mandl, J Martinek, M Bijak, H Lanmüller, W Mayr & M Pichler (eds), Proceedings of the 10th Vienna International Workshop on Functional Electrical Stimulation and 15th IFESS Annual Conference, 8-12 September, 2010, Vienna, Austria. Medical University of Vienna, Vienna Medical School, Center for Medical Physics and Biomedical Engineering, Vienna, pp. 136-138.
32. Muceli S, Negro F, Jensen W, Yoshida K, Poppendieck W, Doerge T & Farina D (2010). 'Sampling large populations of motor units in humans with multichannel thin-film electrodes'. In 40th Annual Meeting of the Society for Neuroscience, Neuroscience 2010, 13-17 November 2010, San Diego, USA. pp. No. 180.1/RR8.
33. Muceli S, Jensen W, Yoshida K, Poppendieck W, Doerge T & Farina D (2010). 'Thin-film electrodes for multi-channel intramuscular EMG recordings in humans'. In D Falla & D Farina (eds), Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010, 16-19 June 2010, Aalborg, Denmark [CD-ROM]. Department of Health Science and Technology. Aalborg University, Aalborg.
34. Munch M & Jensen W (2010). 'Characterization of peri-infarct, intra-cortical M1 responses in an animal model of ischemic stroke'. In D Falla & D Farina (eds), Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010, 16-19 June 2010, Aalborg, Denmark [CD-ROM]. Department of Health Science and Technology. Aalborg University, Aalborg.
35. Shalchyan V, Jensen W & Farina D (2010). 'Unsupervised wavelet optimization for detection and clustering of intra-cortical action potentials'. In D Falla & D Farina (eds), Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010, 16-19 June 2010, Aalborg, Denmark [CD-ROM]. Department of Health Science and Technology. Aalborg University, Aalborg.
36. Shalchyan V, Jensen W & Farina D (2010). 'Unsupervised wavelet optimization for detection of intra-cortical action potentials with low signal-to-noise ratio.' Proceedings of the Workshop on Spike Train Measures and Their Applications to Neural Coding, STM 2010.
37. Geng B, Yoshida K & Jensen W (2009). 'Effects of stimulus patterns on sensory thresholds in dual-channel electrocutaneous stimulation'. Proceedings of 39th Annual Meeting of the Society for Neuroscience, Neuroscience 2009, 17-21 October 2009, Chicago, USA. pp. No. 175.5/Z33.
38. Kamavuako EN, Yoshida K & Jensen W (2008). 'Variance-based signal conditioning improves spike detection in multi-unit intra-fascicular recordings'. Proceedings of the XVIth Congress of the International Society of Electrophysiology and Kinesiology (ISEK), 18-21 June 2008, Niagara Falls, Canada [CD-ROM]. ISEK.
39. Rüterbories J, Skov-Madsen G, Christensen DM & Jensen W (2008). 'Characterization of intra-cortical local field potentials: before, during and after an ischemic event in rats'. Proceedings of the Annual IEEE Student Paper Conference, AISPc 2008, 15 February 2008, Aalborg, Denmark. IEEE, <http://dx.doi.org/10.1109/AISPc.2008.4460560>
40. Skov-Madsen G, Christensen DM, Rüterbories J & Jensen W (2008). 'Investigation of occurrence of lateralization in response to an ischemic stroke in rats'. In Proceedings, Annual IEEE Student Paper Conference, AISPc 2008, 15 February 2008, Aalborg, Denmark. IEEE, <http://dx.doi.org/10.1109/AISPc.2008.4460559>
41. Jensen W, Yoshida K & Hofmann UG (2007). 'In vivo implant mechanics of single-shaft microelectrodes in peripheral nervous tissue'. In Proceedings of the 3rd International IEEE EMBS Conference on Neural Engineering, 2-5 May 2007, Kohala Coast, Hawaii, USA. Electrical Engineering/Electronics, Computer, Communications and Information Technology Association, pp. 1-4, <http://dx.doi.org/10.1109/CNE.2007.369596>
42. Yoshida K, Kurstjens M & Jensen W (2007). 'Thin film longitudinal intra-fascicular electrodes: a multichannel peripheral nerve neural interface'. In Engineering the Future of Biology and Medicine, Annual Fall Meeting of the Biomedical Engineering Society, BMES, 26-29 September 2007, Los Angeles, CA, USA. pp. No. 700.

43. Jensen W, Rousche PJ & Chiganos TC (2006). 'A method for monitoring intra-cortical motor cortex responses in an animal model of ischemic stroke'. In Proceedings of the 28th IEEE EMBS Annual International Conference, Engineering in Medicine and Biology Society, 30 August-3 September 2006, New York City, USA. Electrical Engineering/Electronics, Computer, Communications and Information Technology Association, pp. 1201-1203.
44. Chiganos TC, Jensen W & Rousche PJ (2005). 'Characterization of rat auditory cortex responses after photothrombotic infarction'. In Proceedings of the 2005 BMES Annual Fall Meeting, Biomedical Engineering Society, 28 September-1 October 2005, Baltimore, MD, USA.
45. Jensen W & Rousche PJ (2005). 'Characterization of M1 local-field potentials preceding repetitive forelimb movement in rats'. In Proceedings of the 2005 BMES Annual Fall Meeting, Biomedical Engineering Society, 28 September-1 October 2005, Baltimore, MD, USA.
46. Jensen W & Rousche PJ 2005, 'Movement discrimination based on rat primary motor cortex responses'. In Proceedings of the 2nd Annual IEEE EMBS Conference on Neural Engineering, 16-19 March 2005, Washington DC, USA. IEEE Signal Processing Society, pp. v-viii.
47. Jensen W & Rousche PJ (2004). 'Encoding of self-paced, repetitive forelimb movements in rat primary motor cortex'. In DL Hudson, Z-P Liang & G Dumont (eds), 26th Annual International Conference of the IEEE Engineering in Medicine and Biology Society [EMBS]: conference proceedings, 1-4 September 2004, San Francisco, CA, USA. Electrical Engineering/Electronics, Computer, Communications and Information Technology Association, pp. 4233-4236.
48. Jensen W, Hofmann UG & Yoshida K (2003). 'Assessment of subdural insertion force of single-tine microelectrodes in rat cerebral cortex'. In 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, IEEE EMBS, EMBC 2003, Cancun, Mexico, 17-21 September. Electrical Engineering/Electronics, Computer, Communications and Information Technology Association, pp. 2168-2171.
49. Cavallaro E, Micera S, Dario P, Jensen W & Sinkjær T (2002). 'Soft-computing algorithms for kinematic information extraction from ENG afferent signals'. In 7th Annual Conference of the International Functional Electrical Stimulation Society, IFESS 2002, 25-29 June 2002, Ljubljana, Slovenia. pp. 118-120.
50. Jensen W & Yoshida K (2002). 'Long-term recording properties of longitudinal intra-fascicular electrodes'. In 7th Annual Conference of the International Functional Electrical Stimulation Society, IFESS 2002, 25-29 June 2002, Ljubljana, Slovenia. pp. 138-140.
51. Jensen W, Riso RR, Sepulveda F & Sinkjær T (2001). 'Angular resolution and working ranges of flexion-extension information in nerve cuff recordings of muscle afferent activity'. In Proceedings of the 6th Annual Conference of the International Functional Electrical Stimulation Society, IFESS 2001, 17-20 June 2001, Cleveland, OH, USA.
52. Jensen W, Yoshida K, Malina T & Hofmann U (2001). 'Measurement of intrafascicular insertion force of a tungsten needle into peripheral nerve'. In 23rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2001, 25-28 October 2001, Istanbul, Turkey. vol. 3, pp. 3108-3109., <http://dx.doi.org/10.1109/IEMBS.2001.1017459>
53. Jensen W & Yoshida K (2001). 'The rabbit model and LIFE as a neural interface'. In Scandinavian Society for Laboratory Animal Science, Scand-LAS, 13-15 May 2001, Aarhus, Denmark. pp. 100, No. A76.
54. Norlin P, Kindlundh M, Mouroux A, Yoshida K, Jensen W & Hofmann UG (2001). 'A 32-site neural recording probe fabricated by double-sided deep reactive ion etching of silicon-on-insulator substrates'. In 12th Micromechanics Europe Workshop, MME, 16-18 September 2001, Cork, Ireland.
55. Sepulveda F, Jensen W & Sinkjær T (2001). 'First insights on muscle afferent nerve signals for closed-loop control of FES-generated rabbit ankle movements'. In Proceedings of 7th Vienna International Workshop on Functional Electrical Stimulation, 12-15 September 2001, Vienna, Austria. pp. 152-155.
56. Sepulveda F, Jensen W & Sinkjær T (2001). 'Using nerve signals from muscle afferent electrodes to control FES-based ankle motion in a rabbit'. In 23rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2001, 25-28 October 2001, Istanbul, Turkey. Vol. 23, pp. 1290-1292.
57. Yoshida K, Jensen W, Norlin P, Kindlundh M & Hofmann UG (2001). 'Characterization of silicon microelectrodes from the EU VSAMUEL project'. In Proc. 35. Jahrestagung der Deutschen Gesellschaft für Biomedizinische Technik e.V. (DGBMT), August 2001, Bochum, Germany.

58. Jensen W, Hofmann UG & Yoshida K (2003). 'Assessment of subdural insertion force of single-tine microelectrodes in rat cerebral cortex'. In 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, IEEE EMBS, EMBC 2003, Cancun, Mexico, 17-21 September. Electrical Engineering/Electronics, Computer, Communications and Information Technology Association, pp. 2168-2171.
59. Cavallaro E, Micera S, Dario P, Jensen W & Sinkjær T (2002). 'Soft-computing algorithms for kinematic information extraction from ENG afferent signals'. In 7th Annual Conference of the International Functional Electrical Stimulation Society, IFESS 2002, 25-29 June 2002, Ljubljana, Slovenia. pp. 118-120.
60. Jensen W & Yoshida K (2002). 'Long-term recording properties of longitudinal intra-fascicular electrodes'. In 7th Annual Conference of the International Functional Electrical Stimulation Society, IFESS 2002, 25-29 June 2002, Ljubljana, Slovenia. pp. 138-140.
61. Jensen W, Riso RR, Sepulveda F & Sinkjær T (2001), 'Angular resolution and working ranges of flexion-extension information in nerve cuff recordings of muscle afferent activity'. In Proceedings of the 6th Annual Conference of the International Functional Electrical Stimulation Society, IFESS 2001, 17-20 June 2001, Cleveland, OH, USA.
62. Jensen W, Yoshida K, Malina T & Hofmann U (2001). 'Measurement of intrafascicular insertion force of a tungsten needle into peripheral nerve'. in 23rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2001, 25-28 October 2001, Istanbul, Turkey. vol. 3, pp. 3108-3109., <http://dx.doi.org/10.1109/IEMBS.2001.1017459>
63. Jensen W & Yoshida K (2001). 'The rabbit model and LIFE as a neural interface'. In Scandinavian Society for Laboratory Animal Science, Scand-LAS, 13-15 May 2001, Aarhus, Denmark. pp. 100, No. A76.
64. Norlin P, Kindlundh M, Mouroux A, Yoshida K, Jensen W & Hofmann UG (2001). 'A 32-site neural recording probe fabricated by double-sided deep reactive ion etching of silicon-on-insulator substrates'. In 12th Micromechanics Europe Workshop, MME, 16-18 September 2001, Cork, Ireland.
65. Sepulveda F, Jensen W & Sinkjær T (2001). 'First insights on muscle afferent nerve signals for closed-loop control of FES-generated rabbit ankle movements'. In Proceedings of 7th Vienna International Workshop on Functional Electrical Stimulation, 12-15 September 2001, Vienna, Austria. pp. 152-155
66. Sepulveda F, Jensen W & Sinkjær T (2001). 'Using nerve signals from muscle afferent electrodes to control FES-based ankle motion in a rabbit'. In 23rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2001, 25-28 October 2001, Istanbul, Turkey. vol. 23, pp. 1290-1292.
67. Yoshida K, Jensen W, Norlin P, Kindlundh M & Hofmann UG (2001), 'Characterization of silicon microelectrodes from the EU VSAMUEL project'. In Proc. 35. Jahrestagung der Deutschen Gesellschaft für Biomedizinische Technik e.V. (DGBMT), August 2001, Bochum, Germany.

Book chapters

1. Jensen, W & Harreby, KR 2013, 'Selectivity of peripheral neural interfaces'. in D Farina, W Jensen & M Akay (eds), Introduction to Neural Engineering for Motor Rehabilitation. Wiley-IEEE press, pp. 433-46..
2. Jensen, W & Sinkjær, T 2009, 'Integration af menneske og maskine: proteser til nervesystemet'. in J Bøgeskov, K Ellemann & JB Nielsen (eds), Hjernen i bevægelse. HjerneForum, København, pp. 122-131.
3. Sinkjær, T, Yoshida, K, Jensen, W & Schnabel, V 2006, 'Electroneurography'. in JG Webster (ed.), Encyclopedia of Medical Devices and Instrumentation. 2 edn, vol. 3, Wiley, Hoboken, pp. 109-132.

Anthologies

1. Farina, D, Jensen, W & Akay, M (eds) 2013, Introduction to neural engineering for motor rehabilitation. Wiley-IEEE press.
2. Jensen W, Andersen OK & Akay M (eds) (2014), 'Replace, Repair, Restore, Relieve – Bridging clinical and engineering solutions in neurorehabilitation, Proceedings of the 2nd International Conference on Neurorehabilitation, Aalborg, Denmark. Springer.

Ph.D.-thesis

Jensen, W 2001, Muscle afferent signals for FES systems. PhD thesis, Center for Sensory-Motor Interaction (SMI), Department of Health Science and Technology, Aalborg University, Aalborg.

Press

1. Andersen OK & Jensen W. Stor bevilling skal mindske antallet af invalide efter slagtilfælde. 24/06/14: (Aau.dk (Aalborg Universitet)) (Dhf-net.dk (Dansk Handicap Forbund)) (Altinget.dk/Forskning) (Altinget.dk/Sundhed) (DR.dk) (Ritzaus Bureau) (Nordjyske.dk) (Medwatch.dk) (Hals Avis) (Folkebladet Vodskov-Vestbjerg-Sulsted-Tylstrup)
2. Jensen W. Når de lamme skal gå. 24/06/14: (Nordjyske Stiftstidende)
3. Jensen W. Lam teenager i robotdragt skal sparke VM i gang. 12/06/14: (Politiken.dk)
4. Jensen W. Nye medlemmer af ATV. 07/05/14: (Thisted Dagblad) (Nordjyske Stiftstidende Aalborg) (Nordjyske Stiftstidende Himmerland) (Nordjyske Stiftstidende Vendsyssel) (Atv.dk (Akademiet for de Tekniske Videnskaber))
5. Jensen W. Nyt forskningsprojekt skal komme fantomsmerter til livs. 25/03/14: (DR P4 Radioavisen 17.00 (resumé)
6. Jensen W. Danske forsøgspersoner skal have elektroder opereret ind i nerverne 25/03/14 (Vidneskab dk)
7. Jensen W. Nyt forskningsprojekt skal komme fantomsmerter til livs 25/03/14. (DR P4 Radioavisen 17.00 (resume)
8. Jensen W Robotteknologi: Dansker føler med kunstig hand 05/02/14: (Videnskab.dk) (Aau.dk (Aalborg Universitet)) (BT) (metroXpress København) (metroXpress Aarhus/Vest) (Ing.dk (Ingeniøren)) (BT.dk) (Elek-Data.dk (Elektronik & Data)) (DR.dk) (ElectronicSupply.dk) (Beep.tv2.dk (TV2 Beep)) (B.dk) (Medwatch.dkcs
9. Jensen W. Forskere vil snyde kroppens fantomsmerter, 13/12/13: (Flensborg Avis) (Nordvestnyt Kalundborg) (Lolland-Falsters Folketidende) (Dagbladet Køge/Ringsted/Roskilde) (Horsens Folkeblad) (Vejle Amts Folkeblad) (Fredericia Dagblad) (Nordvestnyt Holbæk/Odsherred) (Frederiksborg Amts Avis) (Nordjyske Stiftstidende) (Sjællandske) (Helsingør Dagblad) (Ritzaus Bureau) (Ritzaus Bureau) (Nordjyske.dk) (Kristeligt-Dagblad.dk) (Sn.dk (Sjællands Nyheder)) (Newspaq / Radio Sydhavsørerne) (Newspaq / Radio Diablo-Alfa Sydfyn) (Newspaq / Radio Globus Guld) (Newspaq / Radio VLR) (Newspaq / Radio Skive) (Newspaq / Radio Mojn) (Newspaq / Radio Aura Midtjylland) (Newspaq / Radio Charlie) (Newspaq / Radio 1 Silkeborg Guld) (Newspaq / Skaga FM) (Newspaq / Radio Limfjord) (Morsø Folkeblad) (Skive Folkeblad) (Nyhedsinformation.dk) (EkstraBladet.dk) (Information.dk) (EkstraBladet.dk/Ekstra) (Aau.dk (Aalborg Universitet)) (Midtjyllands Avis) (Mf.dk (Morsø Folkeblad)) (Avisen.dk) (TVSyd.dk) (Folketidende.dk (Lolland-Falsters Folketidende)) (Lorry.dk (TV2 Lorry)) (AOH.dk (Alt om Herning)) (TV2Oj.dk (TV2 Østjylland)) (Jp.dk (Jyllands-Posten)) (TV2Fyn.dk) (Mja.dk (Midtjyllands Avis)) (TV2Nord.dk) (Dagens.dk) (Videnskab.dk) (Videnskab.dk)
10. Jensen W. Nyt forskningsprojekt skal komme fantomsmerter til livs, 13/12/13: (DR P4 Radioavisen 16.00 (resumé)),
11. Jensen W. Det hele kommer fra hjernen af, 30/11/13: (Information)
12. Jensen W. Sundhedsteknologi: Så tæt er vi på at være cyborgs, 16/10/12: (dr.dk) (DR P3: Sara og David på P3)
13. Jensen W. 05/10/11: (Jyllands-Posten Sektion 1) (Jyllands-Posten Sektion 1)
14. Jensen W. Rotter skal løse blodprop-gåde, 16/06/11: (Jyllands-Posten Online) (DR online)
15. Jensen W. Implantat i hjernen viser vej til helbredelse, 16/06/11: (Videnskab.dk)
16. Jensen W. Winnie Jensen - returned associate professor at Aalborg University, 05/02/09: (Nordic Baltic Expats Forum)
17. Jensen W. En underlig "kriblen-krablen", 01/11/08: (Amputations-Nyt)
18. Jensen W. Forsøgsdyr i forskningens tjeneste, 01/12/07: (Indsigt & Udsyn : Magasin for Aalborg Sygehus. 1. årg. nr. 4, December 2007)

19. Jensen W. Elektroniske nerver, 12/12/08: (Ingeniøren Elektronik)
20. Nico Rijkhoff, Johannes Struijk, Winnie Jensen, Thomas Sinkjær. Ny viden om nerverne kan genskabe organer og sanser, 13/12/08: (Ingeniøren) (Ingeniøren, nr. 50, 12. december 2008, 1. sektion, side 4-5),
21. Johannes Struijk, Nico Rijkhoff, Winnie Jensen, Thomas Sinkjær . Forskning i neuroteknologi giver store muligheder, 12/12/08: (24 Timer 1. Sektion)
22. Jensen W. Forskning i fantomsmerter, 22/02/08: (MetroXpress Danmark 1. sektion) (MetroXpress Århus 1. sektion)
23. Jensen W. Forskere vil manipulere med fantomsmerter, 22/02/08: (Ingeniøren 1. sektion)
24. Jensen W. Forskning i fantomsmerter, 22/02/08: (MetroXpress København 1. sektion)