

New Zealand MSI Curriculum Vitae Template

Personal details				
Full name	Title	First name	Second name(s)	Family name
	Dr	Imran	Khan	Niazi
Present position		Senior Research Fellow		
Organisation/Employer		New Zealand College of Chiropractic		
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Personal website (if applicable)	<ul style="list-style-type: none"> • https://www.researchgate.net/profile/Imran_Niazi • https://scholar.google.com/citations?user=vegOex8AAA&hl=en • http://vbn.aau.dk/en/persons/imran-khan-niazi(13b2ab62-5bc7-4ce7-8aeb-f81ec5c01d74)/publications.html 			

Academic qualifications

Dec-2012, PhD, Biomedical Science and Engineering, Aalborg University, Denmark
 Mar-2009, MSc, Biomedical Engineering, FH and University of Lübeck, Germany
 Sept-2005, BSc, Electrical Engineering, Riphah Int'l University, Islamabad, Pakistan

Professional positions held

01-2016 to till date, Senior Research Fellow, New Zealand College of Chiropractic
 03-2017 to till date, Adjunct Researcher at Auckland University of Technology
 08-2015 to 12-2015, Post-Doctoral Fellow at Auckland University of Technology
 04-2013 to 07-2015, Research Fellow, New Zealand College of Chiropractic
 04-2013 to till date, Guest Researcher, Aalborg University, Denmark
 04-2012 to 03-2013, Postdoc, Aalborg University, Denmark
 04-2009 to 04-2012, PhD Fellow, Aalborg University, Denmark

Present research/professional specialty

My research interests focus on rehabilitation engineering with the patient-centred approach. For that, I am interested in studying and understanding the altered mechanism of motor control and learning in neurological disorder. Understanding these mechanisms can assist us in developing various technologies that can enhance the quality of life (QOL) of these patients, during and after my PhD I have been utilising brain-computer interfaces to achieve goals above. Also, In my current employment at NZCC, I am investigating the effects of chiropractic care using various neurophysiological measurement tools to understand its effects on the peripheral and central nervous system.

I have authored 42 peer-reviewed journal papers and 82 conference papers (proceedings and extended abstracts including). My work has been cited more than 1000 times, and I have an h-index of 16 according to google scholar.

Total years research experience

Ten years

Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc)

Principal Investigator:

- BCI for rehabilitation of stroke rehabilitation, Aalborg University, Awarded in 2009 ~1.5 Million DKK (~300,000 USD)
- Multiclass BCI for stroke rehabilitation, Aalborg University, Awarded in 2012

- ~1.5 Million DKK (~300,000 USD)
- Effects of chiropractic care on neural plasticity OTTO MØNSTEDS FOND
- Awarded in 2011, DKK 15000 (~3000 USD).
- Conference participation (ISEK 2012) OTTO MØNSTEDS FOND
- Awarded in 2012, DKK 10000 (~2000 USD).
- Conference participation (ISEK 2012) OTTICON FONDEN
- Awarded in 2012, DKK 4500. (~1000 USD)
- Selected among top 10 research projects for BCI award 2012.
68 top-level research projects were submitted from all over the world. The Award was presented at the "BCI party" at the SfN 2012 conference in New Orleans, USA.
- The effects of a single session of chiropractic care on brain source connectivity. Australian Spinal research foundation (ASRF), Awarded in 2014. (~106000 NZD).
- Campus France in 2017. Invited Professor at University of Valenciennes 2700 Euro
- Selected among top 10, C-Prize wearable technology challenge 2017. C prize is run by Callaghan Innovation, NZ
<https://www.cprize.nz/meet-finalists>

Co-Principal Investigator

- The effects of chiropractic care on functional outcomes somatosensory processing and motor control in patients who have suffered a stroke. A pilot study. Awarded in 2016 by Scottish Chiropractic Association (4276 NZD).
- The effects of chiropractic care on functional outcomes somatosensory processing and motor control in patients who have suffered a stroke. A pilot study. Awarded in 2016 by The Rubicon Group (20,000 NZD).
- Brain source localization Project Collaboration AAL & NZCC. Awarded in 2015 by Hamblin Chiropractic Research Trust (~30000 NZD).
- Chiropractic care and the control of eye movement in children with attention deficit hyperactivity disorder: A pilot study. Awarded in 2015 by Australian Spinal research foundation (ASRF). (~19600 NZD).
- The effects of a single session of spinal manipulation on power, strength, and cortical drive in athletes. Awarded in 2015 by the University of Southern Denmark. DKK 155200 (~31500 NZD).
- The effects of chiropractic care on functional outcomes somatosensory processing and motor control in patients who have suffered a stroke. A pilot study. Awarded in 2015 by the United Chiropractic Association, UK (56,532.94 NZD).
- The Aalborg BCI: an MRCP driven PAS protocol for people with stroke. Neurological Foundation of New Zealand Awarded in 2014. (11600 NZD).
- Chiropractic care and the control of eye movement in children with attention deficit hyperactivity disorder: A pilot study. Awarded in 2014 by College of Chiropractic Neuro-developmental Paediatrics (~\$6251).
- Chiropractic care and the cortical silent period. Awarded in 2014 by Australian Spinal Research Foundation (44,500 NZD).
- Chiropractic care and the cortical silent period. Awarded in 2014 by Hamblin Chiropractic (15,000 NZD).
- The effects of chiropractic care on pelvic floor muscle function in 2014 by Australian Spinal Research Foundation (67,800 NZD).

- Understanding spinal motor control during standing, locomotion and in response to an external perturbation. Awarded in 2018 by NCMIC, USA (50,000 USD)
- The biomechanical assessment of vertebral subluxations using motion capture analysis. Awarded in 2019 by Australian Spinal Research Foundation (80,000 AUD)

Total number of peer-reviewed publications and patents	Journal articles	Books, chapters, edited	book books	Conference Proceedings /Abstracts	Patents
	42	1		82	1 (pending)

Research Journal/Conference publications and dissemination
Peer-reviewed journal articles
<ol style="list-style-type: none"> 1. Detection of movement intention from single-trial movement-related cortical potentials. / Niazi, Imran Khan; Jiang, Ning; Tiberghien, Olivier; Nielsen, Jørgen Feldbæk; Dremstrup, Kim; Farina, Dario. In: Journal of Neural Engineering, 2011. 2. Performance of a simulated adaptive BCI based on the experimental classification of movement-related and error potentials. /Xavier Artusi, Niazi, Imran Khan, Marie-Françoise Lucas, Dario Farina. In: IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2011. 3. Peripheral electrical stimulation triggered by self-pace detection of motor intention enhances cortical excitability / Niazi, Imran Khan; Mrachacz-Kersting, Natalie; Jiang, Ning; Dremstrup, Kim; Farina, Dario. In: Journal of IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012. 4. Precise temporal association between cortical potentials evoked by motor imagination and afference induces cortical plasticity. / Mrachacz-Kersting, Natalie; Kristensen, Signe Rom; Niazi, Imran Khan; Dremstrup, Kim; Farina, Dario. In: Journal of Physiology, 2012. 5. Detection of movement-related cortical potentials based on subject-independent training. / Niazi, Imran Khan; Jiang, Ning; Jochumsen, Mads; Dremstrup, Kim; Farina, Dario. In: Medical & Biological Engineering & Computing 2013. 6. Detection and classification of movement-related cortical potentials for variations in speed and force for use in rehabilitation. / Jochumsen, Mads; Niazi, Imran Khan; Mrachacz-Kersting, Natalie; Farina, Dario; Dremstrup, Kim. In the Journal of Neural Engineering 2013. 7. Changes in H-reflex and V-waves following spinal manipulation. / Niazi, Imran Khan; Türker, Kemal S.; Flavel, Stanley; Kinget, Mat; Duehr, Jens; Haavik, Heidi. In: Experimental Brain Research, 2015. 8. EMD based temporal and spectral features for the classification of EEG signals using supervised learning. / Riaz, Farhan; Hassan, Ali; Rehman, Saad; Niazi, Imran Khan; Dremstrup, Kim. In IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015. 9. Comparison of spatial filters and features for the detection and classification of movement-related cortical potentials in healthy individuals and stroke patients. / Jochumsen, Mads; Niazi, Imran Khan; Mrachacz- Kersting, Natalie; Jiang, Ning; Farina, Dario; Dremstrup, Kim. In the Journal of Neural Engineering, 2015 10. Detecting and classifying movement-related cortical potentials associated with hand movements in healthy subjects and stroke patients from single-electrode,

- single-trial EEG. / Jochumsen, Mads; **Niazi, Imran Khan**; Taylor, Denise, Farina, Dario; Dremstrup, Kim. **In the Journal of Neural Engineering,2015.**
11. Comparison of features for movement prediction from single-trial movement-related cortical potentials in healthy subjects and stroke patients. / Kamavuako, Ernest Nlandu; Jochumsen, Mads; **Niazi, Imran Khan**; Dremstrup, Kim. **In: Computational Intelligence and Neuroscience,2015.**
 12. Online multi-class brain-computer interface for detection and classification of lower limb movement intentions and kinetics for stroke rehabilitation/Jochumsen, Mads; **Niazi, Imran Khan**; Navid, Muhammad Samran; Anwar, Muhammad Nabeel; Farina, Dario; Dremstrup, Kim. **In Brain-Computer Interfaces, 2015.**
 13. The effects of 12 weeks of chiropractic care on central integration of dual somatosensory input: A pilot study. / Haavik, Heidi; **Niazi, Imran Khan**; Holt, Kelly; Murphy, Bernadette. **In Journal of manipulative and physiological therapeutics 2015**
 14. Induction of long-term depression-like plasticity by pairings of motor imagination and peripheral electrical stimulation. / Jochumsen, Mads; Signal, Nada; Nedergaard, Rasmus Wiberg; Taylor, Denise; Haavik, Heidi; **Niazi, Imran Khan.** **In Frontiers in Human Neuroscience 2015.**
 15. A review of techniques for detection of movement intention using movement-related cortical potentials. Shakeel, Aqsa; Navid, Muhammad Samran; Anwar, Muhammad Nabeel; Mazhar, Suleman; Jochumsen, Mads; and **Niazi, Imran Khan.** **In Computational and Mathematical Methods in Medicine 2015.**
 16. Efficient neuroplasticity induction in chronic stroke patients by an associative brain-computer interface. / Mrachacz-Kersting, Natalie; Jiang, Ning; Stevenson, Andrew James Thomas; **Niazi, Imran Khan**; Kostic, Vladimir; Pavlovic, Aleksandra; Radovanovic, Sasa; Djuric-Jovicic, Milica; Agosta, Federica; Dremstrup, Kim; and Farina, Dario; **In Journal of Neurophysiology 2016.**
 17. Manipulation of dysfunctional spinal joints affects sensorimotor integration in the pre-frontal cortex: a brain source localization study. / Lelic, Dina; **Niazi, Imran Khan**; Holt, Kelly; Jochumsen, Mads; Dremstrup, Kim; Yelder, Paul; Murphy, Bernadette; Drewes, Asbjørn; Haavik, Heidi. **In Journal of Neural Plasticity, 2016**
 18. Pairing voluntary movement and muscle-located electrical stimulation increase cortical excitability. / Jochumsen, Mads; **Niazi, Imran Khan**; Signal, Nada; Nedergaard, Rasmus Wiberg; Haavik, Heidi; Taylor, Denise. **In Frontiers in Human Neuroscience 2016.**
 19. Impact of spinal manipulation on the cortical drive to upper and lower limb muscles. /Haavik, Heidi; **Niazi, Imran Khan**; Jochumsen, Mads; Sherwin, Diane; Flavel, Stanley; Türker, Kemal S. **In Brain Sciences 2017 (Special Issue: Motor Control and Brain Plasticity).**
 20. Paired associative stimulation delivered by pairing movement-related cortical potentials with peripheral electrical stimulation: An investigation of the duration of neuromodulatory effects. / Olsen, Sharon; Signal, Nada; **Niazi, Imran Khan**; Christensen, Thomas Momme; Jochumsen, Mads; Taylor, Denise. **In: Journal of Neuromodulation: Technology at the Neural Interface. 2017.**
 21. Transfer learning for electroencephalogram signals. / Abid, Farah; Hassan, Ali; Abid, Anjum; Jochumsen, Mads; Navid, Muhammad Samran; Nedergaard, Rasmus Wiberg; **Niazi, Imran Khan.** **In: International Journal of Bioscience, Biochemistry, and Bioinformatics, 2017.**
 22. Classification of hand grasp kinetics and types using movement-related cortical potentials and EEG rhythms. / Jochumsen, Mads, Roving, Cecilie; Roving, Helene; **Niazi, Imran Khan**; Dremstrup, Kim; Kamavuako, Ernest Nlandu. **In**

Computational Intelligence and Neuroscience, 2017.

23. Effect of subject training on a movement-related cortical potential-based brain-computer interface. / Jochumsen, Mads; **Niazi, Imran Khan**; Nedergaard, Rasmus Wiberg; Navid, Muhammad Samran; Dremstrup, Kim; **In Biomedical Signal Processing and Control, 2017**
24. Quantification of movement-related EEG correlates associated with motor training: a study on movement-related cortical potentials and sensorimotor rhythms. / Jochumsen, Mads; Rovsing, Cecilie; Rovsing, Helene; Cremoux, Sylvain; Signal, Nada; Allen, Kathryn; Taylor, Denise; **Niazi, Imran Khan**; **In Frontiers in Human Neuroscience 2017.**
25. The Effects of a Single Session of Spinal Manipulation on Strength and Cortical Drive in Athletes. / Christiansen, Thomas Lykke; **Niazi, Imran Khan**; Holt, Kelly; Nedergaard, Rasmus Wiberg; Duehr, Jens; Allen, Kathryn; Marshall, Paul; Turker, Kemal S; Hartvigsen, Jan; Haavik, Heidi; **In European Journal of Applied Physiology Jan 2018.**
26. Posture modulates the sensitivity of the H-reflex. / Cecen, Serpil; **Niazi, Imran Khan**; Nedergaard, Rasmus Wiberg; Cade, Alice; Allen, Kathryn; Holt, Kelly; Haavik, Heidi; Türker, Kemal S. **In: Experimental Brain Research, Vol. 236, No. 3, 2018, p. 829-835.**
27. The Effect of Time on EMG classification of hand motions in able-bodied and transradial amputees. / Waris, Asim; **Niazi, Imran Khan**; Jamil, Mohsin; Gilani, Omer; Englehart, Kevin; Jensen, Winnie; Shafique, Muhammad; Kamavuako, Ernest Nlandu. **In the Journal of Electromyography and Kinesiology April 2018**
28. Chiropractic Manipulation Increases Maximal Bite Force in Healthy Individuals. / Haavik, Heidi; Özyurt, Mustafa Görkem; Niazi, Imran Khan; Holt, Kelly; Nedergaard, Rasmus Wiberg; Yilmaz, Gizem; Türker, Kemal Sitki. **In Brain Sciences 2018 (Special Issue: Neurophysiological Correlates to Behavioural Performance in Motor Learning).**
29. Chiropractic spinal manipulation alters TMS induced I-wave excitability and shortens the cortical silent period. / Haavik, Heidi; **Niazi, Imran Khan**; Jochumsen, Mads; Uginčius, Paulius; Sebik, Oğuz; Yılmaz, Gizem; Navid, Muhammad Samran; Özyurt, Mustafa Görkem; Türker, Kemal S. **In Journal of Electromyography & Kinesiology, Vol. 42, 19.06.2018, p. 24-35.**
30. Stacked Sparse Autoencoders for EMG-Based classification of Hand Motions: A Comparative Multi-Day Study between Surface and Intramuscular EMG. / Zia Ur Rehman, Muhammad; Gilani, Syed Omer; Waris, Asim; Niazi, Imran Khan; Slabaugh, Gregory; Farina, Dario; Kamavuako, Ernest Nlandu. **In Applied Sciences July 2018 (Special Issue: "Deep Learning and Big Data in Healthcare)**
31. Multiday EMG-Based Classification of Hand Motions with Deep Learning Techniques. / Zia Ur Rehman, Muhammad; Waris, Asim; Gilani, Syed Omer; Jochumsen, Mads; **Niazi, Imran Khan**; Jamil, Mohsin; Farina, Dario; Kamavuako, Ernest Nlandu. **In Sensors July 2018 (Special Issue: " Sensor Signal and Information Processing)**
32. Multiday evaluation of techniques for EMG based classification of hand motions. / Waris, Asim; **Niazi, Imran Khan**; Jamil, Mohsin; Englehart, Kevin; Jensen, Winnie; Kamavuako, Ernest Nlandu. **In IEEE Journal of Biomedical and Health Informatics August 2018**

33. Xbox 360 Kinect Cognitive Games Improve Slowness, Complexity of EEG and Cognitive Functions in Subjects with Mild Cognitive Impairment: A Randomized Control Trial. / Amjad, Imran; Toor, Hamza; **Niazi, Imran Khan**; Pervaiz, Sana; Jochumsen, Mads; Shafique, Muhammad; Haavik, Heidi; Ahmed, Touqeer. **In Games for Health Journal August 2018**
34. Classification of overt and covert speech for the near-infrared spectroscopy-based brain-computer interface. / Kamavuako, Ernest Nlandu; Sheikh, Usman Ayub; Gilani, Syed Omer; Jamil, Mohsin; **Niazi, Imran Khan**; **In Sensors September 2018 (Special Issue: " Biomedical Infrared Imaging: From Sensors to Applications")**.
35. Movement intention detection in adolescents with cerebral palsy from single-trial EEG. / Jochumsen, Mads; Shafique, Muhammad; Hassan, Ali; **Niazi, Imran Khan**. **In Journal of Neural Engineering, Sept 2018**.
36. Effect of aerobic exercise on electroencephalogram parameters and cognitive functions in patients with mild cognitive impairment. / Amjad, Imran; Toor, Hamza Ghazanfar Mehmood; **Niazi, Imran Khan**; Afzal, Hina; Jochumsen, Mads; Shafiq, Muhammad; Allen, Kathryn; Haavik, Heidi; Ahmed, Touqeer. **In International Journal of Neuroscience. Sept 2018**
37. An EEG Experimental Study Evaluating the Performance of Texas Instruments ADS1299. / Rashid, Usman; **Niazi, Imran Khan**; Signal, Nada; Taylor, Denise. **In Sensors November 2018 (Section: Chemical Sensors, Special Issue: EEG Electrodes)**.
38. Investigation of optimal afferent feedback modality for inducing neural plasticity with a self-pace brain-computer interface./ Jochumsen, Mads; Cremoux, Sylvain; Robinault, Lucien; Lauber, Jimmy; Arceo, Juan Carlos; ; Navid, Muhammad Samran; Rashid, Usman; Haavik, Heidi; **Niazi, Imran Khan**. **In Sensors November 2018 (Section: Biosensors)**.
39. Use of Neuromodulatory Approaches in Stroke Rehabilitation, / **Niazi, Imran Khan**. **Editorial in Journal of Riphah College of Rehabilitation Sciences. JRCRS. 2018; 6(2): 56-57 doi: 10.5455/JRCRS.2018060208**
40. The effects of a single session of chiropractic care on strength, cortical drive, and spinal excitability in stroke patients. / Holt, Kelly, **Niazi, Imran Khan**; Nedergaard, Rasmus Wiberg; Duehr, Jens; Amjad, Imran; Shafiq, Muhammad; Anwar, Muhammad Nabeel; Ndetan, Harrison; Turker, Kemal; Haavik, Heidi. **In Nature-Scientific Reports Jan 2019**.
41. The effects of chiropractic spinal manipulation on central processing of tonic pain - a pilot study using standardized low-resolution brain electromagnetic tomography (sLORETA). / Navid, Muhammad Samran; Lelic, Dina; **Niazi, Imran Khan**; Holt, Kelly; Bolvig, Esben; Drewes, Asbjørn Mohr, Haavik, Heidi. **In Nature-Scientific Reports April 2019**.
42. Automated Labelling of Movement-Related Cortical Potentials using Segmented Regression. / Rashid, Usman; **Niazi, Imran Khan**; Jochumsen, Mads; Kroll, Laurens K.; Signal, Nada; Taylor, Denise. **In IEEE Transactions on Neural Systems and Rehabilitation Engineering, April 2019**.

Peer-reviewed Conference Proceedings

1. Multi-Day Real-time Myoelectric Control using Intramuscular EMG./ Waris, Asim; Zia ur Rehman, Muhammad; **Niazi, Imran Khan**; Jochumsen, Mads; Kamavuako, Ernest Nlandu. In Trent International Prosthetics Symposium (TIPS) 2019. Manchester, UK March 20-22, 2019.
2. Functional and Corticomuscular Changes Associated with Early Phase of Motor

- Training./ Cremoux, Sylvain; Elie, Dimitri; Rovsing, Cecilie; Rovsing, Helene; Jochumsen, Mads; Haavik, Heidi; [Niazi, Imran Khan](#); In *Converging Clinical and Engineering Research on Neurorehabilitation III Proceedings of the 4th International Conference on NeuroRehabilitation (ICNR2018)*, October 16–20, 2018 Pisa, Italy
3. Performance of combined surface and intramuscular EMG for classification of hand movements./ Zia ur Rehman, Muhammad; Gilani, Syed Omer; Waris, Asim; Jochumsen, Mads; [Niazi, Imran Khan](#); Kamavuako, Ernest Nlandu; In *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 18-21 July 2018 Honolulu, HI, USA*.
 4. footPress: An Open-Source MATLAB Toolbox for Analysis of Pedobarography Data./ Rashid, Usman; Signal, Nada; [Niazi, Imran Khan](#); Taylor, Denise; In *Converging Clinical and Engineering Research on Neurorehabilitation III Proceedings of the 4th International Conference on NeuroRehabilitation (ICNR2018)*, October 16–20, 2018 Pisa, Italy
 5. Modeling and Control of Rehabilitation Robotic Device: motoBOTTE./ Arceo, Juan Carlos; Lauber, Jimmy; Robinault, Lucien; Paganelli, Sebastian; Jochumsen, Mads; [Niazi, Imran Khan](#); Simoneau, Emilie; Cremoux, Sylvain; In *Converging Clinical and Engineering Research on Neurorehabilitation III Proceedings of the 4th International Conference on NeuroRehabilitation (ICNR2018)*, October 16–20, 2018 Pisa, Italy
 6. A novel approach for classification of hand movements using surface EMG signals./ Zia ur Rehman, Muhammad; Gilani, Syed Omer; Waris, Asim; [Niazi, Imran Khan](#); Kamavuako, Ernest Nlandu; In *IEEE International Symposium on Signal Processing and Information Technology (ISSPIT) December 18-20, 2017 - Bilbao – Spain*.
 7. Automatic Tracking of Cervical Spine Using Fluoroscopic Sequences./ Hassan, Ali; Nauman, Muhammad; Riaz, Farhan; Rehman, Saad; Nedergard, Rasmus Wiberg; Holt, Kelly; Haavik, Heidi; [Niazi, Imran Khan](#); In *Intelligent Systems Conference (IntelliSys2017)*, London, UK, 7-8 September 2017.
 8. Feature domain-specific movement intention detection for stroke rehabilitation with brain-computer interfaces. / Hadsund, Johannes Thorling; Sørensen, Mathias Brønd; Royo, Albert Cid; [Niazi, Imran Khan](#); Rovsing, Helene; Rovsing, Cecilie; Jochumsen, Mads. *38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC, 16-20 August 2016, Orlando, FL, USA. IEEE, 2016. p. 5725-5728 (IEEE Engineering in Medicine and Biology Society. Conference Proceedings)*.
 9. Quantifying motor learning from movement-related cortical potentials. / Rovsing, Cecilie; Rovsing, Helene; [Niazi, Imran Khan](#); Jochumsen, Mads. *38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC, 16-20 August 2016, Orlando, FL, USA. IEEE, 2016*.
 10. LQR based training of adaptive neuro-fuzzy controller. / Rashid, Usman; Jamil, Mohsin; Gilani, Syed Omer; [Niazi, Imran Khan](#). *Advances in Neural Networks: Computational Intelligence for ICT*. ed. / Simone Bassis; Anna Esposito; Francesco Carlo Morabito; Eros Pasero. Springer, 2016. p. 311-322 (Smart Innovation, Systems and Technologies; No. 54).
 11. Using a portable device for online single-trial MRCP detection and classification. / Hassan, A.; Ghani, U.; Riaz, F.; Rehman, S.; Jochumsen, Mads; Taylor, D.; [Niazi, Imran Khan](#). *Intelligent Data Engineering and Automated Learning, IDEAL 2015: 16th International Conference, 14-16 October, Wroclaw, Poland, Proceedings*. ed. / K. Jackowski; R. Burduk; K. Walkowiak; M. Wozniak; H. Yin. Springer, 2015. p. 527-534 (Lecture Notes in Computer Science; No. 9375).
 12. Universal matched-filter template versus individualized template for single trial detection of movement intentions of different tasks. / Akmal, Muhammad; Jochumsen, Mads; Navid, Muhammad Samran; Shafique, Muhammad; Zaidi, Syed Muhammad Tahir; Taylor, Denise; [Niazi, Imran Khan](#). *Advances in Neural Networks: Computational Intelligence for ICT*. ed. / Simone Bassis; Anna Esposito; Francesco Carlo Morabito; Eros Pasero. Springer, 2016. p. 275-282 (Smart Innovation, Systems and Technologies; No. 54).
 13. An Empirical Study to Remove Noise from Single-Trial MRCP for Movement Intention Detection./ Hassan Ali, Riaz Farhan, Rehman Saad, Jochumsen Mads, [Niazi Imran](#)

- [Khan](#) and Dremstrup Kim. in IEEE Canadian Conference on Electrical and Computer Engineering (CCECE'2015) 3 – 6 May 2015.
14. Classification of the kinetics of movement for lower limb using covariate shift method for brain-computer interface. / Hassan, Ali; [Niazi, Imran Khan](#); Jochumsen, Mads; Riaz, Farhan; Dremstrup, Kim. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP, 4-9 May 2014, Florence, Italy. IEEE Press, 2014. p. 5854-5858.
 15. Chiropractic alters TMS induced motor neuronal excitability: preliminary findings. / Haavik, Heidi; [Niazi, Imran Khan](#); Duehr, Jens; Kinget, Mat; Ugincius, Paulius; Sebik, Oğuz; Yilmaz, Gizem; Türker, Kemal S. 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. ed. / Winnie Jensen; Ole Kæseler Andersen; Metin Akay. Springer, 2014. p. 35-37 (Biosystems and Biorobotics; No. 7).
 16. Chiropractic, cortical excitability, and BCI. / [Niazi, Imran Khan](#); Jochumsen, Mads; Duehra, Jens; Kingett, Mat; Dremstrup, Kim; Haavik, Heidi. 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. ed. / Winnie Jensen; Ole Kæseler Andersen; Metin Akay. Springer, 2014. p. 121-125 (Biosystems and Biorobotics; No. 7).
 17. Classification of the kinetics of movement for lower limb using covariate shift method for brain-computer interface. / Hassan, Ali; [Niazi, Imran Khan](#); Jochumsen, Mads; Riaz, Farhan; Dremstrup, Kim. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP, 4-9 May 2014, Florence, Italy. IEEE Press, 2014. p. 5854-5858.
 18. Detection of movement intentions through a single channel of electroencephalography. / Jochumsen, Mads; [Niazi, Imran Khan](#); Roving, Helene; Roving, Cecilie; Nielsen, Gebbie A. R.; Andersen, Tina K.; Dong, Nhung P. T.; Sørensen, Marina E.; Mrachacz-Kersting, Natalie; Jiang, Ning; Farina, Dario; Dremstrup, Kim. 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. Ed. / Winnie Jensen; Ole Kæseler Andersen; Metin Akay. Springer, 2014. p. 465-472 (Biosystems and Biorobotics; No. 7).
 19. Processing movement-related cortical potentials in EEG signals for identification of slow and fast movements. / Riaz, Farhan; Hassan, Ali; Rehman, Saad; [Niazi, Imran Khan](#); Jochumsen, Mads; Dremstrup, Kim. 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, IEEE EMBS, 26-30 August 2014, Chicago, IL, USA. IEEE Press, 2014. (IEEE Engineering in Medicine and Biology Society. Conference Proceedings).
 20. Changes in corticospinal excitability following the use of a BCI based protocol combined with sham visual feedback. / Kristensen, Signe Rom; [Niazi, Imran Khan](#); Jochumsen, Mads; Jiang, Ning; Farina, Dario; Mrachacz-Kersting, Natalie. In: Converging Clinical and Engineering Research on Neurorehabilitation: International Conference on NeuroRehabilitation, ICNR 2012, 14-16 November 2012, Toledo, Spain. ed. / José L. Pons; Diego Torricelli; Marta Pajaro. Vol. Part I Springer, 2013. p. 599-602 (Biosystems and Biorobotics, Vol. 1).
 21. A novel brain-computer interface for chronic stroke patients. / Mrachacz-Kersting, Natalie; [Niazi, Imran Khan](#); Jiang, N.; Pavlovic, A. M.; Radovanovic, S.; Kostic, V.; Popovic, Dejan B.; Dremstrup, Kim; Farina, D. In: Converging Clinical and Engineering Research on Neurorehabilitation: International Conference on NeuroRehabilitation, ICNR 2012, 14-16 November 2012, Toledo, Spain. ed. / José L. Pons; Diego Torricelli; Marta Pajaro. Vol. Part II Springer, 2013. p. 837-841 (Biosystems and Biorobotics, Vol. 1).
 22. LivBioSig: development of a toolbox for online bio-signals processing and experimentation. / Lorrain, Thomas; [Niazi, Imran Khan](#); Thibergien, Olivier; Jiang, Ning; Farina, Dario. In: 2011 Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), 30 August-3 September 2010, Boston, Massachusetts, USA. IEEE Press, 2011. p. 7302-7305 (IEEE Engineering in Medicine

and Biology Society. Conference Proceedings).

23. The accuracy of a BCI based on movement-related and error potentials. / Artusi, Xavier; [Niazi, Imran Khan](#); Lucas, Marie-Francoise; Farina, Dario. In: 2011 Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), 30 August-3 September 2010, Boston, Massachusetts, USA. IEEE Press, 2011. p.3688-3691(IEEE Engineering in Medicine and Biology Society. Conference Proceedings).

Peer-reviewed Conference Abstracts

1. Effects of a single session of chiropractic spinal manipulation on the brain activity of stroke patients using somatosensory evoked potentials.. / Navid, Muhammad Samran; Lelic, Dina; [Niazi, Imran Khan](#); Amjad, Imran; Shafique, Muhammad; Drewes, Asbjørn Mohr; Haavik, Heidi. In World Federation of Chiropractic (WFC) 15th Biennial Conference March 2019; Berlin, Germany
2. Investigation of changes in the spatial and temporal brain activity with spinal manipulation– a somatosensory evoked potentials based study.. / Navid, Muhammad Samran; [Niazi, Imran Khan](#); Lelic, Dina; Oliveira, Anderson De Souza Castelo; Asbjorn Mohr; Haavik, Heidi. In World Federation of Chiropractic (WFC) 15th Biennial Conference March 2019; Berlin, Germany
3. The effects of Chiropractic spinal manipulation on the H reflex and muscle strength in children with spastic diplegic cerebral palsy: a feasibility study. / Duehr, Jenna; [Niazi, Imran Khan](#); Nedergaard, Rasmus Wiberg; Holt, Kelly; Taylor, Denise; Haavik, Heidi. In World Federation of Chiropractic (WFC) 15th Biennial Conference March 2019; Berlin, Germany
4. Effect of different pre-processing methods on somatosensory evoked potentials. [Niazi, Imran Khan](#); El-Omar, Barak; Dhillon, Navinder Singh; Navid, Muhammad Samran; Nedergaard, Rasmus Wiberg; Jochumsen, Mads; Haavik, Heidi. At International Society of Electrophysiology and Kinesiology XXII conference, June 30 – July 2, 2018, University College Dublin (UCD) in Dublin, Ireland.
5. Effect of aerobic exercise on electroencephalogram parameters and cognitive functions in patients with mild cognitive impairment. Amjad, Imran; Toor, Hamza Ghazanfar Mehmood; [Niazi, Imran Khan](#); Afzal, Hina; Jochumsen, Mads; Shafiq, Muhammad; Allen, Kathryn; Haavik, Heidi; Ahmed, Touqeer at International Society of Electrophysiology and Kinesiology XXII conference, June 30 – July 2, 2018, University College Dublin (UCD) in Dublin, Ireland.
6. Body position changes the amplitude of the H-reflex. Serpil, Cecen; [Niazi, Imran Khan](#); Nedergaard, Rasmus Wiberg; Haavik, Heidi; Türker, Kemal; At International Society of Electrophysiology and Kinesiology XXII conference, June 30 – July 2, 2018, University College Dublin (UCD) in Dublin, Ireland.
7. Chiropractic Manipulation Increases Maximal Bite Force in Healthy Individuals. Ozyurt, Mustafa Gorkem; Haavik, Heidi; [Niazi, Imran Khan](#); Sebik, Oguz; Yilmaz, Gizem; Türker, Kemal. At International Society of Electrophysiology and Kinesiology XXII conference, June 30 – July 2, 2018, University College Dublin (UCD) in Dublin, Ireland.
8. Increased voluntary activation of the elbow flexors following a single session of chiropractic manipulation in subclinical neck pain population. Kingett, Matt; Holt, Kelly; [Niazi, Imran Khan](#); Nedergaard, Rasmus Wiberg; Lee, Michael; Özyurt, Mustafa Gorkem, Türker, Kemal; Haavik, Heidi. In International Motor Neuron Society June 11-14, 2018, the University of Colorado, Boulder, USA.
9. Re-investigation on the nature and sign of transcranial magnetic stimulation-induced cortical silent period. Haavik, Heidi; Özyurt, [Niazi, Imran Khan](#); Nedergaard, Rasmus Nedergaard; Topkara B, Yilmaz, Gizem; Türker Kemal S. In International Motor Neuron Society June 11-14, 2018, University of Colorado, Boulder, USA.
10. The effects of a single session of chiropractic care on strength, cortical drive, and spinal excitability in stroke patients. Holt, Kelly; [Niazi, Imran Khan](#); Nedergaard, Rasmus Wiberg; Duehr, Jens, Amjad, Imran; Shafiq, Muhammad; Anwar, Muhammad Nabeel; Türker, Kemal S.; Haavik, Heidi. In International Motor Neuron Society June 11-14, 2018, the University of Colorado, Boulder, USA.

11. Spinal manipulation alters conduction velocity and force within the Tibialis Anterior Muscle. Janjua, Taha Al Muhammadiyah; [Niazi, Imran Khan](#); Holt, Kelly; Gilani, Syed Omer; Anwar, Muhammad Nabeel; Kamavuako, Ernest; Haavik, Heidi. At ACC-RAC 8-10 March 2018 Dallas, USA.
12. Chiropractic alters TMS induced I-wave excitability and cortical silent period duration. / Haavik, Heidi, [Niazi, Imran Khan](#); Duehr, Jens Kinget, Mat; Uginčius, Paulius; Sebik, Oğuz; Yılmaz, Gizem; Navid, Muhammad Samran; Türker, Kemal S. At ACC-RAC 8-10 March 2018 Dallas, USA.
13. From research laboratory towards clinical practice. Understanding patient perspectives of a novel neuromodulatory intervention. Olsen, Sharon; Signal, Nada; [Niazi, Imran Khan](#); Alder, Gemma; Taylor, Denise. 2017 In New Zealand Rehabilitation Association Conference, At Christchurch, New Zealand.
14. Measuring changes in neuromuscular control following neuromodulation. A feasibility study in people with stroke. Olsen, Sharon; Signal, Nada; [Niazi, Imran Khan](#); Alder, Gemma; Jochumsen, Mads; Taylor, Denise. 2017, In International Journal of Stroke, Vol. 12, No. 3_Suppl., 88, 2017, p. 56. (Presented in Scientific Meeting of the Stroke Society of Australasia 2017 at Queenstown, New Zealand)
15. Pairing Voluntary Movement with Muscle-Located Electrical Stimulation Increases Cortical Excitability./ [Niazi, Imran Khan](#); Jochumsen, Mads; Signal, Nada; Nedergaard, Rasmus Wiberg; Haavik, Heidi; Taylor, Denise. (2017) In Rehab Week 17-20 July London.
16. Should we use imagined, movement or active movement in a novel paired associative stimulation protocol. Taylor, Denise; Signal, Nada; Jochumsen, Mads; [Niazi, Imran Khan](#). In Rehab Week 17-20 July 2017 London, UK.
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18. Exploring measures of gait variability following neuromodulation: A feasibility study in people with stroke. Olsen, Sharon; Signal, Nada; [Niazi, Imran Khan](#); Alder, Gemma; Jochumsen, Mads; Taylor, Denise. In Minnesota Neuromodulation Symposium April 13-14,2017 Minnesota, USA
19. The effects of a single session of spinal manipulation on strength and cortical drive in stroke patients. Holt, Kelly, [Niazi, Imran Khan](#); Nedergaard, Rasmus Wiberg; Duehr, Jens; Amjad, Imran; Shafiq, Muhammad; Haavik, Heidi. (2017) ACC-RAC Platform and poster presentation abstracts. Journal of Chiropractic Education: March 2017, Vol. 31, No. 1, pp. 29-83.
20. The effects of a single session of spinal manipulation on strength and cortical drive in stroke patients. / Holt, Kelly, [Niazi, Imran Khan](#); Nedergaard, Rasmus Wiberg; Duehr, Jens; Amjad, Imran; Shafiq, Muhammad; Haavik, Heidi. In World Federation of Chiropractic (WFC) 14th Biennial Conference March 2017; Washington, USA
21. The effects of a single session of spinal manipulation on strength and cortical drive in athletes. / Christiansen, Thomas Lykke; [Niazi, Imran Khan](#); Holt, Kelly; Nedergaard, Rasmus Wiberg, Duehr, Jens; Schlupp, Vivian; Marshall, Paul; Turker, Kemal S. Hartvigsen, Jan; Haavik, Heidi; In World Federation of Chiropractic (WFC) 14th Biennial Conference March 2017; Washington, USA
22. Palpatory acuity among chiropractic students and experienced chiropractors. / Duehr, Jens; [Niazi, Imran Khan](#); Nedergaard, Rasmus Wiberg; Baptista, Lisa; Russell, David; Haavik, Heidi; Holt, Kelly In World Federation Of Chiropractic (WFC) 14th Biennial Conference March 2017; Washington, USA
23. Effects of a single session of chiropractic care on voluntary activation and maximum voluntary contraction of the biceps brachii. / Kingett, Mat; Holt, Kelly; [Niazi, Imran Khan](#); Nedergaard, Rasmus Wiberg; Lee, Michael; Haavik, Heidi. In World Federation of Chiropractic (WFC) 14th Biennial Conference March 2017; Washington, USA
24. Chiropractic Care Alters Nociceptive Processing at Spinal and Supraspinal Levels. / Lelic, Dina; [Niazi, Imran Khan](#); Holt, Kelly; Navid, Muhammad Samran; Drewes, Asbjørn Mohr; Haavik, Heidi. In World Federation of Chiropractic (WFC) 14th Biennial Conference March 2017; Washington, USA
25. Spinal manipulation increases maximum bite force in healthy individuals. / Özyurt, M. Görkem; Haavik, Heidi; [Niazi, Imran Khan](#); Holt, Kelly; Sebik, Oğuz; Yılmaz, Gizem;

- Türker, Kemal S. In World Federation of Chiropractic (WFC) 14th Biennial Conference March 2017; Washington, USA
26. Chiropractic spinal manipulation improves the onset of contractions of female pelvic floor muscle. / Salmons, Jenna; [Niazi, Imran Khan](#), Nedergaard, Rasmus Wiberg; Holt, Kelly; Haavik, Heidi. In World Federation of Chiropractic (WFC) 14th Biennial Conference March 2017; Washington, USA
27. Dishabituation of the central nervous system to tonic pain following chiropractic care - a standardized low-resolution brain electromagnetic tomography (sLORETA) based study. / Navid, Muhammad Samran; Lelic, Dina; [Niazi, Imran Khan](#); Holt, Kelly; Bolvig, Esben; Drewes, Asbjørn Mohr, Haavik, Heidi. In World Federation of Chiropractic (WFC) 14th Biennial Conference March 2017; Washington, USA
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30. The effects of a single session of spinal manipulation on strength and cortical drive in stroke patients./ Holt, Kelly, [Niazi, Imran Khan](#); Nedergaard, Rasmus Wiberg; Duehr, Jens; Amjad, Imran; Shafiq, Muhammad; Haavik, Heidi. (2016, August) Presented at the Association of Australia Scientific Symposium held in Cairns, Australia
31. The effects of a single session of spinal manipulation on strength and cortical drive in athletes. / Christiansen, Thomas Lykke; [Niazi, Imran Khan](#); Holt, Kelly; Nedergaard, Rasmus Wiberg; Duehr, Jens; Schlupp, Vivian; Marshal, Paul; Türker, Kemal; Hartvigsen, Jan; Haavik, Heidi; In 10th biennial International Motor neuron meeting Istanbul 2016.
32. Spinal manipulation increases maximum bite force in healthy individuals. / Özyurt, M. Görkem; Haavik, Heidi; [Niazi, Imran Khan](#); Holt, Kelly; Sebik, Oğuz; Yılmaz, Gizem; Türker, Kemal S. In 10th biennial International Motor neuron meeting Istanbul 2016
33. Changes in H-reflex and V-waves following spinal manipulation. / [Niazi, Imran Khan](#); Kemal S. Türker; Flavel, Stanley; Kinget, Mat; Duehr, Jens; In 10th biennial International Motor neuron meeting Istanbul 2016.
34. Changes in cortico-muscular coherence while modulating force during isometric ramp contractions. / S Oliveira, Anderson; [Niazi, Imran Khan](#); Nedergaard, Rasmus Wiberg; Holt, Kelly; Haavik, Heidi. In 10th biennial International Motor neuron meeting Istanbul 2016.
35. Chiropractic alters TMS induced I-wave excitability and cortical silent period duration. / Haavik, Heidi, [Niazi, Imran Khan](#); Duehr, Jens Kinget, Mat; Uginčius, Paulius; Sebik, Oğuz; Yılmaz, Gizem; Navid, Muhammad Samran; Türker, Kemal S. In 10th biennial International Motor neuron meeting Istanbul 2016.
36. Evaluating corticomotor excitability during functional motor tasks as a biomarker of neural plasticity in people with stroke in Stroke Rehabilitation/ Signal Nada, Lewis Gwen, [Niazi Imran Khan](#), Olsen Sharon, Taylor Denise. in From No Tech to Go Tech, Christchurch, May 2015 <http://www.science.canterbury.ac.nz/stroke-rehab/>
37. Combined effects of spinal manipulation and a brain-computer interface based plasticity protocol on corticospinal excitability./ [Niazi Imran Khan](#), Jochumsen Mads, Holt Kelly, Demstrup Kim, Haavik Heidi. In World Federation Of Chiropractic (WFC) 13th Biennial Conference May 2015; Athens, Greece
38. The effects of a single session of chiropractic care on lower limb muscle strength. / Haavik Heidi, [Niazi Imran Khan](#), Kingett Mathew, Duehr Jens, Holt Kelly. In World Federation Of Chiropractic (WFC) 13th Biennial Conference May 2015; Athens, Greece
39. The changes in sensorimotor integration that happen with manipulation of dysfunctional spinal joints occur at the pre-frontal cortex: A brain source localization study. Lelic Dina, [Niazi, Imran Khan](#), Holt Kelly, Jochumsen Mads, Dremstrup Kim, Yelder Paul, Murphy

- Bernadette, Drewes Asbjørn Mohr, Haavik Heidi. In World Federation Of Chiropractic (WFC) 13th Biennial Conference May 2015; Athens, Greece
40. Rehabilitation using a brain-computer interface based on movement-related cortical potentials: a review. / Dremstrup, Kim; [Niazi, Imran Khan](#); Jochumsen, Mads; Jiang, N.; Mrachacz-Kersting, Natalie; Farina, D.XIII Mediterranean Conference on Medical and Biological Engineering and Computing, MEDICON 2013, 25-28 September 2013, Seville, Spain. ed. / Laura M. Roa Romero. Springer, 2014. p. 1659-1662 (IFMBE Proceedings, Vol. 41).
 41. Online detection and classification of movement kinetics. / Jochumsen, Mads; Navid, Muhammad Samran; Nedergaard, Rasmus Wiberg; Anwar, Muhammad Nabeel; [Niazi, Imran Khan](#); Dremstrup, Kim. Proceedings of the 6th International Brain-Computer Interface Conference, 16-19 September 2014, Graz, Austria: The Future of Brain-Computer Interaction: Basics, Shortcomings, Users. ed. / Gernot Müller-Putz; Günther Bauernfeind; Clemens Brunner; David Steyrl; Selina Wriessnegger; Reinhold Scherer. Verlag der Technischen Universität Graz, 2014. 035-1.
 42. Rehabilitation using a brain-computer interface based on movement-related cortical potentials: a review. / Dremstrup, Kim; [Niazi, Imran Khan](#); Jochumsen, Mads; Jiang, N.; Mrachacz-Kersting, Natalie; Farina, D.XIII Mediterranean Conference on Medical and Biological Engineering and Computing, MEDICON 2013, 25-28 September 2013, Seville, Spain. ed. / Laura M. Roa Romero. Springer, 2014. p. 1659-1662 (IFMBE Proceedings, Vol. 41).
 43. Increased cortical drive and altered net excitability of low-threshold motor unit levels to the lower limb following spinal manipulation. [Niazi, Imran Khan](#), Türker Kemal, Flavel Stan, Kingett Matt, Duehr Jens & Haavik Heidi (2013) Platform presentation World Federation of Chiropractic's 12th Biennial Congress, April 6 – 9, Durban, South Africa. Proceedings p.155-156.
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 45. Increased lower limb cortical excitability and alterations to early Bereitschafts potential following spinal manipulation. [Niazi Imran Khan](#) & Haavik Heidi. (2013). Poster presentation World Federation of Chiropractic's 12th Biennial Congress, April 6 – 9, Durban, South Africa. Proceedings p.204-205.
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 47. Classifying speed and force from movement intentions using entropy and a support vector machine. / Jochumsen, Mads; [Niazi, Imran Khan](#); Farina, D.; Dremstrup, Kim. Proceedings of the Fifth International Brain-Computer Interface Meeting: Defining the Future, 3-7 June 2013, Pacific Grove, CA, USA. ed. / J. d. R. Millán; S. Gao; G. R. Müller-Putz; J. R. Wolpaw; J. E. Huggins. Verlag der Technischen Universität Graz, 2013. p. Article No. 136.
 48. Detection and classification of movement-related cortical potentials for variations in speed and force for use in rehabilitation. / Jochumsen, Mads; Mrachacz-Kersting, Natalie; [Niazi, Imran Khan](#); Farina, Dario; Dremstrup, Kim. In: 30. Danske Medicotekniske Landsmøde, 18.-20. September 2012, Brædstrup, Denmark. Dansk Medicoteknisk Selskab, 2012. p. 2, No. 4.
 49. Lower limb cortical excitability changes and alterations to early Bereitschafts potential following spinal manipulation. / [Niazi, Imran Khan](#); Dremstrup, Kim; Jochumsen, Mads; Jörg Niemeier, Marko; Jensen, Asger Ågård; Van, Thien Duy; Haavik, Heidi. In: Proceedings of the XIXth Congress of the International Society of Electrophysiology & Kinesiology, ISEK2012, 19-21 July 2012, Brisbane, Australia. ISEK, 2012. p. 245, No. SENS_O2.2.
 50. Neuroplastic changes in upper limb cortical excitability following spinal manipulation. / Haavik, Heidi; Sherwin, Diane; Flavel, Stanley; Dremstrup, Kim; [Niazi, Imran Khan](#). In: Proceedings of the XIXth Congress of the International Society of Electrophysiology & Kinesiology, ISEK2012, 19-21 July 2012, Brisbane, Australia. ISEK, 2012. p. 248, No. SENS_O3.1.
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53. Movement-related cortical potentials: asynchronous versus synchronous brain-computer interfaces. / Mrachacz-Kersting, Natalie; Niazi, Imran Khan; Farina, Dario. In: Clinical Neurophysiology, Vol. 122, No. Suppl. 1, 2011, p. S16, No. W5.3.
54. Peripheral electrical stimulation triggered by movement-related cortical potentials enhances cortical excitability. / Mrachacz-Kersting, Natalie; Jiang, Ning; Niazi, Imran Khan; Farina, Dario. In: Bernstein Conference 2011, Computational Neuroscience / Neurotechnology and Neurex Annual Meeting, 4-6 October 2011, Freiburg, Germany. University of Freiburg, 2011. p. 155-156, No. W 22. Research - peer-review > Conference abstract in proceedings
55. Theoretical framework and simulation of an adaptive BCI based on movement-related and error potentials. / Artusi, Xavier; Niazi, Imran Khan; Lucas, Marie F.; Farina, Dario. In: Proceedings of the 5th International Brain-Computer Interface Conference, 22-24 September 2011, Graz, Austria. Verlag der Technischen Universität Graz, 2011. p. 88-91.
56. Self-paced vs. cue-based motor task: the difference in cortical activity. / Savic, Andrej M.; Niazi, Imran Khan; Popovic, Mirjana. In: 19th Telecommunications Forum, TELFOR 2011, 22-24 November 2011, Belgrade, Serbia. IEEE Press, 2011. p. 39-42, Article No. 6143887.
57. Changes in cortical excitability following the use of a BCI with abstract feedback. / Niazi, Imran Khan; Jiang, Ning; Lorrain, Thomas; Cabrera, Alvaro Rodrigo; Mrachacz-Kersting, Natalie; Dremstrup, Kim; Farina, Dario. 2010. Abstract from BCI International Meeting, Asilomar, CA, United States.
58. Effect of abstract feedback following use of the brain-computer interface for upper limb rehabilitation. / Niazi, Imran Khan; Jiang, Ning; Mrachacz-Kersting, Natalie; Dremstrup, Kim; Farina, Dario. In: Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010, 16-19 June 2010, Aalborg, Denmark [CD-ROM]. Ed. / Deborah Falla; Dario Farina. Aalborg: Department of Health Science and Technology. Aalborg University. , 2010.
59. Self-paced brain-computer interface (SBCI) using movement-related cortical potentials. Tiberghien, Olivier; Niazi, Imran Khan; Jiang, Ning; Dremstrup, Kim; Farina, Dario. In: 28. Danske Medicotekniske Landsmøde, 21.-23. September 2010, Brædstrup, Denmark. Dansk Medicoteknisk Selskab, 2010.

Supervision/Teaching

- 2015-till date Currently Co-Supervising 5 Ph.D. students at Auckland university of technology, Auckland, New Zealand and Aalborg University, Denmark.
- 2012-2015 Ph.D. student completed (Mads Jochumsen)
- 2009-till date Supervision of 31 Masters 9th semester projects and 15 master's theses at Aalborg University
- Feb-Sept 2005 Teaching assistant at Riphah University. (Conducted CAD course)

	Journal Name	Number	Years	IF
1	Medical & Biological Engineering & Computing	4	2012, 2015, 2016, 2017	1.97
2	Journal of Neural Engineering	4	2013, 2015, 2016, 2017	3.90
3	IEEE Journal of Biomedical and Health Informatics	1	2013	3.451
4	Biomedical Signal Processing and Control	1	2013	2.78
5	Frontiers of Human Neuroscience	6	2014*2,2018*3,2019	3.6
6	Transactions on Neural Systems & Rehabilitation Engineering (IEEE -TNSRE)	7	2014,2016,2*2017, 2018,2*2019	3.97
7	programme committee of the 13th International Conference on Neuro-Computing and Evolving Intelligence held at AUT	2	2015	

8	7th International IEEE EMBS Conference on Neural Engineering	1	2014	
9	ICNR 2018 Pisa Italy	1	2018	
10	Journal of Electromyography and Kinesiology	2		
11	Scientific Reports	1	2018	4.12
12	BMC Neurology	1	2018	2.17
13	Journal of Manipulative and Physiological Therapeutics	2	2*2018	1.592
14	Journal of Physiology	1	2018	4.739
15	Journal of Neuroscience Methods	1	2018	2.256
16	Annals of Biomedical Engineering	2	2*2018	3.405
17	9th International IEEE EMBS Conference on Neural Engineering	6	2018	
18	Sensors	5	2014,2018,3*2019	2.475
19	Journal of Integrative Medicine	1	2019	1.48
20	Brain Sciences	1	2019	2.5
21	Expert Systems with Applications	1	2019	3.768
	Total	51		
Journal/Conference Reviewer				
	<ul style="list-style-type: none"> • Aug-2018-till date Review Editor for Frontiers in Robotics and AI (Biomedical Robotics) 			