

List of Authors IV

Kahn, Ari E.....	16
Kaketsis, Daphne.....	145
Kanoh, Shin'Ichiro.....	239
Kelly, Dion	
Kirton, Adam.....	145
Kleih, Sonja.....	234, 249
Klemm, Valeska.....	106
Kober, Silvia Erika.....	1
Kobler, Reinmar.....	100
Koizumi, Koji.....	117
Kojima, Simon.....	239
Kolkhorst, Henrich.....	228
Korik, Attila.....	338
Kozyrskiy, Bogdan L.....	291
Kübler, Andrea.....	106, 234, 249
L	
La Bella, Vincenzo.....	206
Lakany, Heba.....	178
Latoschik, Marc Erich.....	249
Lecaigard, Françoise.....	59
Lécuyer, Anatole.....	317
Lee, Seong-Whan.....	216
Leinders, Sacha.....	38, 50, 71, 157, 309
Lennon, Olive.....	161
Liti, Chiara.....	312
Lopes Dias, Catarina.....	54, 65
Lotte, Fabien.....	194, 200, 210
Luppi, Janne J.....	38
M	
Maby, Emmanuel.....	59, 222, 261, 267
Marttini, Andrew.....	344
Mattia, Donatella.....	285, 321
Mattout, Jérémie.....	59, 222, 261, 267
McCann, Alison.....	355
McElligott, Jacinta.....	355

List of Authors V

Medeiros de Freitas, Amanda.....	59
Medina-Juliá, María Teresa.....	183
Melnichuk, Eugeny V.....	291
Memmott, Tab.....	22
Miao, Yangyang.....	206
Micoulaud-Franchi, Jean-Arthur.....	200
Moccaldi, Nicola.....	44
Moctezuma, Luis Alfredo.....	332
Molinas, Marta.....	297, 332
Monseigne, Thibaut.....	200
Mrachacz-Kersting, Natalie.....	350
Müller-Putz, Gernot R.....	54, 65, 100, 188, 244, 279
Murovec, Nensi.....	206
N	
Nakao, Masayuki.....	117
N'Kaoua, Bernard.....	194
Nuernberger, Andreas.....	11
Nuzhdin, Yury.....	77
O	
Ofner, Patrick.....	188
Oken, Barry.....	22
Ortner, Rupert.....	206, 303
Ozdenizci, Ozan.....	22
P	
Palagi, Laura.....	285
Partyka, Marta.....	222
Parvis, Marco.....	44
Pelagallu, Lisa.....	321
Pels. Elmar G. M.....	38, 50, 71, 157, 309
Pendekanti, Shrita.....	344
Pereira, Joana.....	188
Philip, Pierre.....	200
Piccialli, Veronica.....	312
Pichiorri, Floriana.....	285
Pillette, Léa.....	194

List of Authors VI

Pouratian, Nader.....	344
R	
Ramsey, Nick F.....	38, 50, 71, 157, 309
Rejer, Izabela.....	122
Riccio, Angela.....	321
Rimbert, Sébastien.....	139
Roberts, Dustin.....	344
Roc, Aline.....	194
Rodrigues, Pedro Luiz Coelho.....	6, 111
Ron-Angevin, Ricardo.....	183
Roussel, Nicolas.....	317
S	
Sancha-Ros, Salvador.....	183
Sanchez, Gaëtan.....	59
Sburlea, Andreea Ioana.....	54, 65, 100, 244, 279
Scarano, Gaetano.....	172
Schettini, Francesca.....	321
Schuster, Elisa	
Schwartz, Denis.....	16
Schwarz, Andreas.....	188
Sebastián-Romagosa, Marc.....	303
Séguin, Perrine.....	261
Shim, Kyung-Hwan.....	216
Shishkin, Sergei L.....	291
Si-Mohammed, Hakim.....	317
So, Rosa.....	94
Soares, Alcimar Barbosa.....	59
Soler, Andres Felipe.....	297
Sosulski, Jan.....	273
Spataro, Rossella.....	206
Speier, William.....	344
Stow, Jacqueline.....	355
Stümpfig, Jana.....	249
T	
Tangermann, Michael.....	166, 228, 273

List of Authors VII

Tateyama, Naoki.....	117
Thielen, Jordy.....	128
Tump, Danielle.....	27
Turi, Federica.....	133
U	
Ueda, Kazutaka.....	117
V	
Vaihinger, Mara.....	166
Van den Boom, Max.....	71, 157
Van der Vijgh, Ben.....	38, 50, 71, 157, 309
Van Zandvoort, Martine.....	50
Vansteensel, Mariska J.....	38, 50, 71, 157, 309
Vasilyev, Anatoly N.....	291
Veit, Joseline.....	228
Velasco-Alvarez, Francisco.....	183
Velichkovsky, Boris M.....	291
Verbaarschot, Ceci.....	255
Victor-Thomas, Guillaume.....	88
W	
Weiss, Sarah.....	1
Wood, Guilherme.....	1
Wu, Zheng.....	11
X	
Xu, Jiachen.....	32
Xu, Jiahua.....	11
Xu, Ren.....	206
Z	
Zewdie, Ephrem.....	145
Zhao, Darisy G.....	291
Ziebell, Philipp.....	249

Table of Contents I

1. NIRS-BASED NEUROFEEDBACK TRAINING TO TREAT DYSPHAGIA.....	1
Silvia Erika Kober, Sarah Weiss, Peter Grieshofer and Guilherme Wood	
DOI: 10.3217/978-3-85125-682-6-01	
2. THE RIEMANNIAN MINIMUM DISTANCE TO MEANS FIELD CLASSIFIER.....	6
Marco Congedo, Pedro Lc Rodrigues and Christian Jutten	
DOI: 10.3217/978-3-85125-682-6-02	
3. DECODING SSVEP ON TIME AND FREQUENCY DOMAIN USING CONVOLUTIONAL NEURAL NETWORK.....	11
Riddhi Gala, Jiahua Xu, Zheng Wu and Andreas Nuernberger	
DOI: 10.3217/978-3-85125-682-6-03	
4. LOOKING FOR CORTICAL PATTERNS OF SUCCESSFUL MOTOR IMAGERY-BASED BCI LEARNING.....	16
Marie-Constance Corsi, Mario Chavez, Denis Schwartz, Nathalie George, Laurent Hugueville, Ari E. Kahn, Sophie Dupont, Danielle S. Bassett and Fabrizio De Vico Fallani	
DOI: 10.3217/978-3-85125-682-6-04	
5. ADVERSARIAL FEATURE LEARNING IN BRAIN INTERFACING: AN EXPERIMENTAL STUDY ON ELIMINATING DROWSINESS EFFECTS.....	22
Ozan Ozdenizci, Barry Oken, Tab Memmott, Melanie Fried-Oken and Deniz Erdogmus	
DOI: 10.3217/978-3-85125-682-6-05	
6. SENSOR TYING, OPTIMAL MONTAGES FOR VEP-BASED BCI.....	27
Sara Ahmadi, Marzieh Borhanazad, Danielle Tump, Jason Farquhar and Peter Desain	
DOI: 10.3217/978-3-85125-682-6-06	
7. INTERPRETABLE RIEMANNIAN CLASSIFICATION IN BRAIN-COMPUTER INTERFACING	32
Jiachen Xu, Moritz Grosse-Wentrup and Vinay Jayaram	
DOI: 10.3217/978-3-85125-682-6-07	
8. KEEP AN EYE ON IT: REPRESENTATION OF EYE MOVEMENTS IN THE SENSORIMOTOR CORTEX.....	38
Mariana P Branco, Janne J Luppi, Sacha Leinders, Zachary V Freudenburg, Benny H van der Vijgh, Elmar G M Pels, Erik J Aarnoutse, Nick F Ramsey and Mariska J Vansteensel	
DOI: 10.3217/978-3-85125-682-6-08	
9. A WEARABLE SSVEP-BASED BRAIN-COMPUTER INTERFACE WITH OFF-THE-SHELF COMPONENTS.....	44
Leopoldo Angrisani, Pasquale Arpaia, Antonio Esposito, Nicola Moccaldi and Marco Parvis	
DOI: 10.3217/978-3-85125-682-6-09	
10. COUNT ON IT: DORSOLATERAL PREFRONTAL CORTEX FOR BCI CONTROL IN LOCKED- IN SYNDROME.....	50
Sacha Leinders, Erik Aarnoutse, Mariana Branco, Zachary Freudenburg, Elmar Pels, Ben Van der Vijgh, Martine Van Zandvoort, Mariska J Vansteensel and Nick Ramsey	
DOI: 10.3217/978-3-85125-682-6-10	

Table of Contents II

11. ASYNCHRONOUS DETECTION OF ERROR-RELATED POTENTIALS USING A GENERIC CLASSIFIER.....	54
Catarina Lopes Dias, Andreea Ioana Sburlea and Gernot R. Müller-Putz	
DOI: 10.3217/978-3-85125-682-6-11	
12. EVALUATING AUTOMATIC ARTIFACT CORRECTION FOR ONLINE HYPOTHESIS TESTING.....	59
Amanda Medeiros de Freitas, Gaëtan Sanchez, Françoise Lecaigard, Emmanuel Maby, Alcimar Barbosa Soares and Jérémie Mattout	
DOI: 10.3217/978-3-85125-682-6-12	
13. EXPECTATION MISMATCH DURING A TRACKING TASK: AN EEG ANALYSIS.....	65
Michele Bevilacqua, Catarina Lopes Dias, Andreea Ioana Sburlea and Gernot Müller-Putz	
DOI: 10.3217/978-3-85125-682-6-13	
14. CASE STUDY: TRADITIONAL MOTOR CORTEX CONTROL FEATURES IN ALS AND BRAINSTEM STROKE.....	71
Zachary Freudenburg, Mariska J Vansteensel, Benny Van der Vijgh, Mariana Branco, Sacha Leinders, Elmar Pels, Max van Den Boom, Erik Aarnoutse and Nick Ramsey	
DOI: 10.3217/978-3-85125-682-6-14	
15. RESONANCE - A BCI FRAMEWORK FOR WORKING WITH MULTIPLE DATA SOURCES. .	77
Yury Nuzhdin	
DOI: 10.3217/978-3-85125-682-6-15	
16. PRESENTATION SPEEDS FOR A N400-BASED BCI.....	82
Karen Dijkstra, Jason Farquhar and Peter Desain	
DOI: 10.3217/978-3-85125-682-6-16	
17. TIMEFLUX: AN OPEN-SOURCE FRAMEWORK FOR THE ACQUISITION AND NEAR REAL-TIME PROCESSING OF SIGNAL STREAMS.....	88
Pierre Clisson, Raphaëlle Bertrand-Lalo, Marco Congedo, Guillaume Victor-Thomas and Jonas Chatel-Goldman	
DOI: 10.3217/978-3-85125-682-6-17	
18. INTRACORTICAL ACTIVITY DECODING OF MOTOR IMAGERY BASED ON DEEP CONVOLUTIONAL NEURAL NETWORK: A PILOT STUDY.....	94
Duo Chen, Rosa So, Yi Ding and Cuntai Guan	
DOI: 10.3217/978-3-85125-682-6-18	
19. SIMULTANEOUS DECODING OF VELOCITY AND SPEED DURING EXECUTED AND OBSERVED TRACKING MOVEMENTS: AN MEG STUDY.....	100
Reinmar Kobler, Masayuki Hirata, Hiroaki Hashimoto, Ryosuke Dowaki, Andreea Sburlea and Gernot Müller-Putz	
DOI: 10.3217/978-3-85125-682-6-19	
20. TRAINING EFFECTS OF A TACTILE BCI FOR WHEELCHAIR CONTROL.....	106
Matthias Eidel, Valeska Klemm and Andrea Kübler	
DOI: 10.3217/978-3-85125-682-6-20	

Table of Contents III

21. "WHEN DOES IT WORK?": AN EXPLORATORY ANALYSIS OF TRANSFER LEARNING FOR BCI.....	111
Pedro Luiz Coelho Rodrigues, Marco Congedo and Christian Jutten	
DOI: 10.3217/978-3-85125-682-6-21	
22. EEG SOURCE ANALYSIS OF VISUAL MOTION IMAGERY FOR APPLICATION TO BRAIN-COMPUTER INTERFACE.....	117
Koji Koizumi, Kazutaka Ueda, Naoki Tateyama and Masayuki Nakao	
DOI: 10.3217/978-3-85125-682-6-22	
23. AN ALGORITHM FOR DETECTION OF MULTIPLE BLINKS OF SINGLE AND BOTH EYES FROM EOG SIGNAL.....	122
Izabela Rejer and Łukasz Cieszyński	
DOI: 10.3217/978-3-85125-682-6-23	
24. THE EFFECT OF HIGH AND LOW FREQUENCIES IN C-VEP BCI.....	128
Marzieh Borhanazad, Jordy Thielen, Jason Farquhar and Peter Desain	
DOI: 10.3217/978-3-85125-682-6-24	
25. ADAPTIVE PARAMETER SETTING IN A CODE MODULATED VISUAL EVOKED POTENTIALS BCI.....	133
Federica Turi and Maureen Clerc	
DOI: 10.3217/978-3-85125-682-6-25	
26. CAN SUGGESTIVE HYPNOSIS BE USED TO IMPROVE THE BCI PERFORMANCE?.....	139
Sébastien Rimbert, Oleksii Avilov, Perrine Adam and Laurent Bougrain	
DOI: 10.3217/978-3-85125-682-6-26	
27. BRAIN-COMPUTER INTERFACE COMMUNICATION FOR A LOCKED IN CHILD WITH EPILEPTIC ENCEPHALOPATHY.....	145
Ephrem Zewdie, Zeanna Jadavji, Daphne Kaketsis and Adam Kirton	
DOI: 10.3217/978-3-85125-682-6-27	
28. PEDIATRIC BRAIN-COMPUTER INTERFACE COMPETENCY: A PILOT STUDY.....	151
Dion Kelly, Ephrem Zewdie and Adam Kirton	
DOI: 10.3217/978-3-85125-682-6-28	
29. UTRECHT NEUROPROSTHESIS SYSTEM: NEW FEATURES TO ACCOMMODATE USER NEEDS.....	157
Benny van der Vijgh, Max van den Boom, Mariana Branco, Sacha Leinders, Zachary Freudenburg, Elmar Pels, Mariska van Steensel, Nick Ramsey and Erik Aarnoutse	
DOI: 10.3217/978-3-85125-682-6-29	
30. SYSTEMATIC REVIEW OF THE STATE-OF-THE-ART IN BRAIN COMPUTER INTERFACE ROBOTIC WALKING IN STROKE.....	161
Alexander Heiling, Máire Claffey and Olive Lennon	
DOI: 10.3217/978-3-85125-682-6-30	
31. A SIMULATED ENVIRONMENT FOR STUDYING PARTIAL OBSERVABILITY IN NOVEL ADAPTIVE DEEP BRAIN STIMULATION.....	166

Table of Contents IV

Sebastián Castaño-Candamil, Mara Vaihinger and Michael Tangermann DOI: 10.3217/978-3-85125-682-6-31	
32. COMBINATION OF CONNECTIVITY AND SPECTRAL FEATURES FOR MOTOR-IMAGERY BCI.....	172
Tiziana Cattai, Stefania Colonnese, Marie-Constance Corsi, Danielle Bassett, Gaetano Scarano and Fabrizio De Vico Fallani DOI: 10.3217/978-3-85125-682-6-32	
33. HETEROGENEOUS REAL-TIME MULTI-CHANNEL TIME-DOMAIN FEATURE EXTRACTION USING PARALLEL SUM REDUCTION ON GPU.....	178
Jetsada Arnin, Danial Kahani, Heba Lakany and Bernard Conway DOI: 10.3217/978-3-85125-682-6-33	
34. UMA-BCI SPELLER, A P300-BASED SPELLING TOOL.....	183
Francisco Velasco-Alvarez, Salvador Sancha-Ros, Esther García-Garaluz, Álvaro Fernández- Rodríguez, María Teresa Medina-Juliá and Ricardo Ron-Angevin DOI: 10.3217/978-3-85125-682-6-34	
35. ONLINE DETECTION OF HAND OPEN VS PALMAR GRASP ATTEMPTS IN A PERSON WITH SPINAL CORD INJURY.....	188
Patrick Ofner, Joana Pereira, Andreas Schwarz and Gernot R. Müller-Putz DOI: 10.3217/978-3-85125-682-6-35	
36. WOULD MOTOR-IMAGERY BASED BCI USER TRAINING BENEFIT FROM MORE WOMEN EXPERIMENTERS?.....	194
Aline Roc, Léa Pillette, Bernard N'Kaoua and Fabien Lotte DOI: 10.3217/978-3-85125-682-6-36	
37. DESIGN AND PRELIMINARY STUDY OF A NEUROFEEDBACK PROTOCOL TO SELF- REGULATE AN EEG MARKER OF DROWSINESS.....	200
Thibaut Monseigne, Fabien Lotte, Stephanie Bioulac, Pierre Philip and Jean-Arthur Micoulaud- Franchi DOI: 10.3217/978-3-85125-682-6-37	
38. EFFECTS OF 10 VIBRO-TACTILE P300 BCI SESSIONS ON THE COMA RECOVERY SCALE-REVISED IN PATIENTS WITH MINIMALLY CONSCIOUS STATE.....	206
Alexander Heilingner, Nensi Murovec, Ren Xu, Yangyang Miao, Jing Jin, Rupert Ortner, Rossella Spataro, Vincenzo La Bella and Christoph Guger DOI: 10.3217/978-3-85125-682-6-38	
39. ARE USERS' TRAITS INFORMATIVE ENOUGH TO PREDICT/EXPLAIN THEIR MENTAL- IMAGERY BASED BCI PERFORMANCES?.....	210
Camille Benaroch, Fabien Lotte and Camille Jeunet DOI: 10.3217/978-3-85125-682-6-39	
40. CLASSIFICATION OF VARIOUS GRASPING TASKS BASED ON TEMPORAL SEGMENTATION METHOD USING EEG AND EMG SIGNALS.....	216
Jeong-Hyun Cho, Ji-Hoon Jeong, Kyung-Hwan Shim and Seong-Whan Lee	

Table of Contents V

DOI: 10.3217/978-3-85125-682-6-40	
41. PERFORMANCE, TRANSFER LEARNING AND UNDERLYING PHYSIOLOGY IN CHILDREN PLAYING P300 BCI GAMES.....	222
Mélodie Fouillen, Emmanuel Maby, Marta Partyka, Vania Herbillon and Jérémie Mattout	
DOI: 10.3217/978-3-85125-682-6-41	
42. HETEROGENEITY OF EVENT-RELATED POTENTIALS IN A SCREEN-FREE BRAIN-COMPUTER INTERFACE.....	228
Henrich Kolkhorst, Joseline Veit, Wolfram Burgard and Michael Tangermann	
DOI: 10.3217/978-3-85125-682-6-42	
43. THE EFFECT OF PERFORMANCE EXPECTANCY AND ACHIEVEMENT MOTIVE IN A P300 BASED BRAIN-COMPUTER INTERFACE.....	234
Sonja Kleih, Andreas Eder and Andrea Kübler	
DOI: 10.3217/978-3-85125-682-6-43	
44. EVALUATION OF AUDITORY BCI SYSTEM BASED ON STREAM SEGREGATION.....	239
Shin'Ichiro Kanoh and Simon Kojima	
DOI: 10.3217/978-3-85125-682-6-44	
45. TUNING OF PARAMETERS FOR A VIBROTACTILE KINAESTHETIC FEEDBACK SYSTEM UTILIZING TACTILE ILLUSIONS.....	244
Lea Hehenberger, Andreea Ioana Sburlea and Gernot Rudolf Müller-Putz	
DOI: 10.3217/978-3-85125-682-6-45	
46. INTRODUCING A MOTIVATING TRAINING STUDY DESIGN TO COMPARE AUDITORY AND TACTILE STREAMING-BASED P300 BCIS.....	249
Philipp Ziebell, Jana Stümpfig, Sonja Kleih, Marc Erich Latoschik, Andrea Kübler and Sebastian Halder	
DOI: 10.3217/978-3-85125-682-6-46	
47. FLIP-THAT-BUCKET: A FUN EEG-BCI GAME ON GOOEY MOVEMENT INTENTIONS.....	255
Ceci Verbaarschot, Pim Haselager and Jason Farquhar	
DOI: 10.3217/978-3-85125-682-6-47	
48. WHY BCIS WORK POORLY WITH THE PATIENTS WHO NEED THEM THE MOST?.....	261
Perrine Séguin, Emmanuel Maby and Jérémie Mattout	
DOI: 10.3217/978-3-85125-682-6-48	
49. SIMPLE DEEP NEURAL NETWORKS SHOW STATE-OF-THE-ART PERFORMANCE IN ERP-BASED BCI.....	267
Loïc Delobel, Emmanuel Maby and Jérémie Mattout	
DOI: 10.3217/978-3-85125-682-6-49	
50. SPATIAL FILTERS FOR AUDITORY EVOKED POTENTIALS TRANSFER BETWEEN DIFFERENT EXPERIMENTAL CONDITIONS.....	273
Jan Sosulski and Michael Tangermann	
DOI: 10.3217/978-3-85125-682-6-50	

Table of Contents VI

51. HOW SIMILAR ARE THE NEURAL PATTERNS WHEN OBSERVING GRASPING HAND POSTURES TO THE BEHAVIORAL PATTERNS WHEN EXECUTING THE GRASP?.....	279
Andreea Ioana Sburlea and Gernot Müller-Putz	
DOI: 10.3217/978-3-85125-682-6-51	
52. SWLDA OFFERS A VALUABLE TRADE-OFF BETWEEN INTERPRETABILITY AND ACCURACY FOR REHABILITATIVE BCIS.....	285
Emma Colamarino, Tommaso Colombo, Floriana Pichiorri, Donatella Mattia, Laura Palagi and Febo Cincotti	
DOI: 10.3217/978-3-85125-682-6-52	
53. AN EXPECTATION-BASED EEG MARKER FOR THE SELECTION OF MOVING OBJECTS WITH GAZE.....	291
Darisy G. Zhao, Anatoly N. Vasilyev, Bogdan L. Kozyrskiy, Andrey V. Isachenko, Eugeny V. Melnichuk, Boris M. Velichkovsky and Sergei L. Shishkin	
DOI: 10.3217/978-3-85125-682-6-53	
54. PARTIAL BRAIN MODEL FOR REAL-TIME CLASSIFICATION OF RGB VISUAL STIMULI: A BRAIN MAPPING APPROACH TO BCI.....	297
Andres Felipe Soler, Eduardo Giraldo and Marta Molinas	
DOI: 10.3217/978-3-85125-682-6-54	
55. CORRELATIONS BETWEEN THE LATERALITY COEFFICIENT AND FUNCTIONAL SCALES IN STROKE PATIENTS.....	303
Marc Sebastián-Romagosa, Rupert Ortner, Josep Dinarès-Ferran and Christoph Guger	
DOI: 10.3217/978-3-85125-682-6-55	
56. LONG-TERM HOME USE OF A FULLY IMPLANTED BCI FOR COMMUNICATION: VISUAL AND AUDITORY SPELLING.....	309
Erik Aarnoutse, Sacha Leinders, Zachary Freudenburg, Benny van der Vijgh, Elmar Pels, Mariana Branco, Nick Ramsey and Mariska J Vansteensel	
DOI: 10.3217/978-3-85125-682-6-56	
57. A SCORE BASED METHOD FOR P300 COLLABORATIVE BCI.....	312
Chiara Liti, Luigi Bianchi, Veronica Piccialli and Francesco Gambardella	
DOI: 10.3217/978-3-85125-682-6-57	
58. DEFINING BRAIN-COMPUTER INTERFACES: A HUMAN-COMPUTER INTERACTION PERSPECTIVE.....	317
Hakim Si-Mohammed, Géry Casiez, Ferran Argelaguet, Nicolas Roussel and Anatole Lécuyer	
DOI: 10.3217/978-3-85125-682-6-58	
59. INVESTIGATION OF NEEDS AND CHARACTERISTICS OF END-USERS, FOR A FUTURE INCLUSION OF BCIS IN AT-CENTERS.....	321
Angela Riccio, Francesca Schettini, Enrico Giraldo, Federica Cappalonga, Lisa Pelagallu, Febo Cincotti and Donatella Mattia	
DOI: 10.3217/978-3-85125-682-6-59	
60. BCI THERAPIES TRIGGERING SENSORY FEEDBACK FOR MOTOR REHABILITATION AFTER STROKE: A SYSTEMATIC REVIEW.....	326

Table of Contents VII

Claudia Bigoni and Friedhelm Christoph Hummel	
DOI: 10.3217/978-3-85125-682-6-60	
61. TOWARDS EEG-BASED SIGNALS CLASSIFICATION OF RGB COLOR-BASED STIMULI	332
Sara Hegdahl Åsly, Luis Alfredo Moctezuma, Marta Molinas and Monika Gilde	
DOI: 10.3217/978-3-85125-682-6-61	
62. CLASSIFICATION OF IMAGINED SPOKEN WORD-PAIRS USING CONVOLUTIONAL NEURAL NETWORKS.....	338
Ciaran Cooney, Attila Korik, Rafaella Folli and Damien Coyle	
DOI: 10.3217/978-3-85125-682-6-62	
63. A SELF-PACED P300 SPELLER WITH IMPROVED TYPING SPEED USING CONTINUOUS STIMULUS PRESENTATIONS.....	344
William Speier, Corey Arnold, Nand Chandravadia, Dustin Roberts, Shrita Pendekanti, Andrew Marttini and Nader Pouratian	
DOI: 10.3217/978-3-85125-682-6-63	
64. MOVEMENT RELATED CORTICAL POTENTIALS DURING HAND OPENING AND CLOSING IN ALS PATIENTS.....	350
Strahinja Dosen and Natalie Mrachacz-Kersting	
DOI: 10.3217/978-3-85125-682-6-64	
65. TOWARDS ANSWERING QUESTIONS IN DISORDERS OF CONSCIOUSNESS AND LOCKED-IN SYNDROME WITH A SMR-BCI.....	355
Natalie Dayan, Alain Bigirimana, Alison McCann, Jacqueline Stow, Jacinta McElligott, Aine Carroll and Damien Coyle	
DOI: 10.3217/978-3-85125-682-6-65	