

Curriculum Vitae

Alkinoos Athanasiou

MD, MSc, PhD
National Board-Certified Neurosurgeon



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School of Health Sciences, Aristotle University of Thessaloniki
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Date of birth 12 October 1984 *Nationality* Greek

Current Professional Appointments

- 7 Mar 2018 – present **Neurosurgeon**, First Department of Neurosurgery, AHEPA University General Hospital, Thessaloniki, Greece
*appointment for rural doctor service at RMC Dafnis (2617), Chalkidiki and secondment by decree 9453/07/03/2018
from 4th Regional Health Authority of Macedonia & Thrace*
- Jul 2013 – present **Research Associate** Laboratory of Medical Physics, Aristotle University of Thessaloniki, Greece
- Dec 2016 – Mar 2018 **Neurosurgeon** in private practice / Interbalkan Medical Center, Thessaloniki, Greece

Education

- 17 Dec 2013 – 21 Feb 2018 PhD in Brain Networks (Computational Neuroscience & Brain-Computer Interfaces / Neurosurgery)
Aristotle University of Thessaloniki, School of Medicine, Thessaloniki, Greece - Grade: "Excellent with merit"
- Oct 2009 – Mar 2012 Master of Science in Medical Informatics (MSc)
Aristotle University of Thessaloniki, School of Medicine, Thessaloniki, Greece - Grade: "Excellent" (9.25/10)
- Feb 2004 – Oct 2008 Doctor of Medicine (MD)
Aristotle University of Thessaloniki, School of Medicine, Thessaloniki, Greece - Grade: "Very Good" (7.15/10)
- Oct 2002 – Feb 2004 **Democritus University of Thrace**, School of Medicine, Alexandroupolis, Greece
- Sep 1996 – Aug 2002 **"Arsakeio" High School of Thessaloniki** - Grade: "Excellent" (18.9/20)

Theses

- Athanasiou A (2018) **Study of neuronal circuits of the brain in patients with spinal cord injury** [thesis in Greek]
Ph.D. in Brain Networks, Aristotle University of Thessaloniki, School of Medicine, Thessaloniki, Greece.
Advisor committee: Prof. Konstantinos Polyzoidis, Assoc. Prof. Nicolas Foroglou, Assoc. Prof. Panagiotis D. Bamidis. Grade: "Excellent with merit"
- Athanasiou A (2012) **Functional connectivity of the sensorimotor cortex of the brain during actual and imaginary limb movement** [thesis in Greek]
M.Sc. in Medical Informatics, Aristotle University of Thessaloniki, School of Medicine, March 2012, Thessaloniki, Greece.
Advisor: Assoc. Prof. Panagiotis D. Bamidis. Grade: "Excellent" (10/10)

Neurosurgical Training, Certification & Fellowships

- 1 – 15 October 2017 **Spine Fellowship**, under Prof. Richard Assaker, Clinique de Neurochirurgie, Centre Hospitalier Régional Universitaire de Lille, France
- 13 December 2016 **National Board Certification**, Thessaloniki, Greece – General Directorate of Public Health and Social Care, Region of Central Macedonia, ruling decree on 20/01/2017
- 13 May 2013 – 12 November 2016 **Resident** First Department of Neurosurgery, AHEPA University General Hospital, Thessaloniki, Greece
Chief Resident July 2015 – November 2016

- Apr 2012 – May 2013 **Senior Resident** Department of Neurosurgery, “Papageorgiou” General Hospital, Thessaloniki, Greece
- Aug 2010 – Feb 2012 **Resident 2nd** Surgical-Oncological Department, “Theageio” Cancer Hospital, Thessaloniki, Greece
Department of Thoracic Surgery Jan 2012 – Feb 2012
- Dec 2008 – Mar 2012 **Scientific Associate** Department of Neurosurgery, “Papageorgiou” General Hospital, Thessaloniki, Greece
Full-time clinical scientific associate Dec 2008 – Jul 2010

Research Experience

- Jul 2013 – present **Research Associate** Laboratory of Medical Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece
Advisor: Assoc. Professor Panagiotis D. Bamidis
– Research Groups: *Biomedical Electronics Robotics & Devices (BERD)*, *Neuroscience of Cognition & Affection (NCA)*, *Medical Education Informatics (MEI)*, *Innovation & Technology Empowered Learning Group (I-TELG)*
- Oct 2008 – Jun 2013 **Research Associate** Laboratory of Medical Informatics, Aristotle University of Thessaloniki, Thessaloniki, Greece
Advisor: Assoc. Professor Panagiotis D. Bamidis
- projects*
- **COST action CA16116** Wearable Robots for Augmentation, Assistance or Substitution of Human Motor Functions – role: Management Committee (MC substitute for Greek participation)
 - **Joint Action to support the e-Health Network** 677102 / JaseHN EU Health Program (2014-2020), role: technical support.
 - **AnatomyHoloLens** (provisional name, under development): augmented/virtual reality for teaching neuroanatomy
 - **CSI:Brainwave** (Brainwave control of a wearable robotic arm for rehabilitation applications) AUTH 90886, ClinicalTrials.gov Identifier: NCT02443558, role: project proposal writer, co-applicant, principal researcher.
 - **SmokeFreeBrain** H2020 No 681120,
 - **Long Lasting Memories (LLM)** CIP-ICT-PSP.2008.1.4 &
 - **mEducator** ECP 2008 EDU 418006, role: consulting medical researcher.
- Actively involved in the writing or assuming consulting role in many project proposals submitted to national or international funding bodies.
- mentoring*
- Nikolaos Moustakas (2016) Brain-computer interface for robotic arm control. MSc thesis in Medical Informatics, AUTH, advisor: Assoc. Prof. Anestis Kalfas
 - George Arfaras (2017) Brain-computer/robotic arm interface: accuracy measurement of learning/training procedure. MSc thesis in Medical Informatics, AUTH advisor: Assoc. Prof. Panagiotis D. Bamidis
 - Ioannis Xygonakis (2017) Decoding motor imagery through signal analysis at cerebral source activation level in electroencephalographic data. BSc thesis in Electrical & Computer Engineering, AUTH, advisor: Assoc. Prof. Dimitris Kugiumtzis
 - Dimitris Karabekis (2018) BCIs, BSc thesis in Electrical & Computer Engineering, AUTH, advisor: Assoc. Prof. Christos Hamzas

Research Grants

- Apr 2018 – Oct 2018 European Association of Neurosurgical Societies – “Brihaye” 2018 EANS Research Grant (10,000euro) for “Adaptive and maladaptive plasticity of brain connectivity following spinal cord injury”
- Apr 2014 – Apr 2015 Cervical Spine Research Society – European Section (CSRS-ES) - 2013 Mario Boni Research Grant (25,000euro) for project “CSI:Brainwave”

Teaching Experience

- 2016 – 2018 **Registry of Associated Scientific Staff** School of Health Sciences, Frederick University, Cyprus
– educational objects: “Research Methodology” & “Information Technologies in Health Services”
- 2015 – 2017 **Teaching Assistant** Post Graduate Program on Organization & Administration of Education (MA), School of Pedagogical and Technological Education (ASPETE) – lectures on “brain and cognitive functions” in Course “Management of behavioral issues in the school environment” & organization of associated hands-on laboratory
- 2014 – 2017 **Teaching Assistant** Post Graduate Program on Nanosciences & Nanotechnology (MSc), School of Physics, Aristotle University of Thessaloniki – Course “Bioinformatics”
- 2013 – 2017 **Teaching Assistant** Post Graduate Program on Medical Research Methodology (MSc), School of Medicine, Aristotle University of Thessaloniki – Course “Neuroscience & Neurophysiology”
- 2009 – 2012 **Lab Instructor** Graduate course “Medical Informatics I”, School of Medicine, Aristotle University of Thessaloniki
- 2013 – 2016 **Clinical Teaching** to international (Erasmus) and domestic pre-graduate Medical School students (bedside teaching, neurological examination, neurosurgical patients, basic clinical skills, introduction to basic OR skills)
Post-graduate lectures on Neurosurgery & Joint Neuroimaging Meetings, First Department of Neurosurgery, “AHEPA” University

General Hospital, Aristotle University of Thessaloniki – Presentation of several lectures

- 2008 – 2013 *Post-graduate lectures on Neurosurgery*, Department of Neurosurgery, “Papageorgiou” General Hospital, Thessaloniki – Presentation of several lectures
- 2005 **Lab Instructor** *European Computer Driving License (ECDL)*, private computer learning center

Awards & Achievements

- February 2018 *2017 EANS Funded Observership* (3000euro) by European Association of Neurosurgical Societies, to attend a fellowship under Prof. Karl Schaller, HUG, Geneva, Switzerland
- Dec 2017 *AOSpine Fellowship* (CHF920) by AOSpine International, to attend a fellowship under Dr. Patrick Tropiano, Aix-Marseille Université, Marseille, France
- Oct 2017 *Eurospine Short Term Fellowship – Member to Member Grant* (1500euro), to attend a spine fellowship under Prof. Richard Assaker, CHRU Lille, France
- June 2017 *Student Best Poster Award* for “Visual versus kinesthetic motor imagery for BCI control of robotic arms (Mercury 2.0)”, presented during 30th IEEE International Symposium on Computer-Based Medical Systems (CBMS), Thessaloniki 22-24 June 2017
- Oct 2016 *Best abstract “Vicky Zachariou” 2016 Award* (1000euro), Hellenic Spine Society for “Thought controlled robotics for motor disabled patients and the case of CSI:Brainwave”, presented during 10th Hellenic Spine Congress & Joint Meeting with French and Turkish Spine Societies, Thessaloniki, 26-29 October 2016
- June 2016 *First place of “Christos Antoniadis” 2016 Award* (500euro), Hellenic Society of Neurosurgery (ENXE) – 2nd place in annual written examination of Neurosurgery during 30th Panhellenic Congress of Neurosurgery, Volos, Greece, 16-18 June 2016
- Nov 2013 *Educational Grant for presenting authors* (1000usd), European Association of Neurosurgical Societies (EANS) Annual Meeting 2013, Tel Aviv, Israel 11-14 November, 2013
- Mar 2012 *Valedictorian in Master’s Graduation* (score: 9.25/10)
- Apr 2012 *Finalist paper* “Brain-Computer Interfaces: contemporary achievements and future goals towards patient mobility restoration”, oral presentation [in Greek] in 5th Scientific Congress of Medical School of Aristotle University of Thessaloniki
- Sep 2009 *First place in entrance examinations* (score: 117.8) of Post Graduate Program (Master’s) in Medical Informatics, School of Medicine, Aristotle University of Thessaloniki
- 1996 – 2002 *Certificate of Excellence* in High School, Hellenic Ministry of Education, six years & *Certificate of Class Valedictorian* in High School, Hellenic Ministry of Education, three years (1996 – 1999)

Academic Activity

- Administrative Positions** Treasurer and member of the Administrative Board, *Hellenic Society of Biomedical Technology* (ELEBIT) from 4/2017 onward
Member of Audit Committee, *Hellenic Society of Biomedical Technology* (6/2010-4/2013)
Students’ representative in the General Assembly of School of Medicine, Aristotle University of Thessaloniki, 2004-2008
- Conference Committees** Local Organizing Committee of “10th Hellenic Spine Congress”, 26-29 October 2016, Thessaloniki, Greece
Local Technical Committee of “*Society of Applied Neuroscience Conference – SAN 2016*”, 6-9 October 2016, Corfu, Greece
Local Technical Committee of “*Society of Applied Neuroscience Conference – SAN 2011*”, 5-8 May 2011, Thessaloniki, Greece
Organizing Committee of “3rd PanHellenic Conference on Biomedical Technologies”, 28-29 May 2010, Chalkidiki, Greece
- Academic Memberships** Member of *Society of Applied Neurosciences (SAN)*, *Federation of European Neuroscience Societies (FENS)*, *International Brain Research Organization (IBRO)*, *Hellenic Society for Neurosciences (HSFN)* and *Hellenic Society of Biomedical Technology (ELEBIT)*. Individual member of *European Association of Neurosurgical Societies (EANS)*, of *EUROSPINE*, of *AOSpine* and of *Hellenic Neurosurgical Society (ENXE)*. Member of *Order of Doctors of Thessaloniki and PanHellenic Medical Society*.
- Editor** *Surgical Neurology International: Computational (SNI:Computational)*, Wolters Kluwer Medknow --- “Neurotechnology: Methods, Advances and Applications”, co-editor, book to be published by IET in 2019 --- special issue editor, “Computational Methods in Neuroscience Challenges and Future Trends” in *Computers & Electrical Engineering*, Elsevier,

- Peer-reviewer*
- Advances in Human-Computer Interaction, *Hindawi*
 - Biomedical Signal Processing and Control (IF: 1.532), *Elsevier*
 - Clinical Neurophysiology (IF: 2.979), *Elsevier*
 - Computational Intelligence and Neuroscience (IF: 1.215), *Hindawi*
 - Frontiers in Human Neuroscience (IF: 3.634), *Frontiers*
 - International Journal of Psychophysiology (IF: 2.036), *Elsevier*
 - Journal of Medical Internet Research (IF: 3.4), *JMIR Publications*
 - JMIR Research Protocols, *JMIR Publications*
 - JMIR mHealth and uHealth, *JMIR Publications*
 - Journal of Neurosciences in Rural Practice, *Wolters Kluwer*
 - Neuroscience (IF: 3.415), *Elsevier*
 - Neuroscience and Biobehavioral Reviews (IF: 9.440), *Elsevier*
 - Perceptual & Motor Skills (IF: 0.658), *Ammons Scientific*
 - Spinal Cord (IF: 1.870), *Springer Nature*
- COST (European Cooperation in Science and Technology) external expert & rapporteur

Courses & Conferences

- Courses**
- **HarvardX** PH125.1x: Data Science: R Basics, 01/2018
 - Diploma of the Hellenic Spine Society (**EUROSPINE** equivalent) – Module 4: Trauma, Thessaloniki, Greece, 14/11/2017
 - Greek Diaspora Fellowship Program (GDFP) Course – Fostering neuropsychological and clinical neuroscience training and research at AUTH through fMRI experiments, June 2017
 - European Resuscitation Council Basic Life Support (**ERC BLS / CPR-AED**), Thessaloniki, Greece, 10/6/2017
 - **AOSpine Advanced Symposium** – Degenerative and Trauma, Thessaloniki, Greece, 25-26/11/2016
 - **EUROSPINE** European Spine Course Diploma – Module 1: Basic Comprehensive Course, Thessaloniki, Greece, 7/12/2015
 - Post-graduate Lessons of Hellenic Neurosurgical Society: periods 2013-2014, 2014-2015, 2015-2016, 2017-2018. Attended many other stand-alone lectures & workshops.

- International Conferences & Workshops*
- 3rd International Congress on Brain & Behavior, Thessaloniki, Greece, 28/11-2/12/2007
 - Neuromath Workshop, Leuven, Belgium, 12-13/3/2009
 - 4th International Congress on Brain & Behavior, Thessaloniki, Greece, 3-6/12/2009
 - TOBI Workshop 2010: Integrating BCIs with conventional assistive technology, Graz, Austria, 3-4-2/2/2010
 - MEDICON 2010 – XII Mediterranean Conference on Medical and Biological Engineering and Computing, Chalkidiki, Greece, 27-30/5/2010
 - 7th European Symposium on Biomedical Engineering, Chalkidiki, Greece, 28-29/5/2010
 - SAN 2011 – Society of Applied Neurosciences Meeting 2011, Thessaloniki, Greece, 5-8/5/2011
 - 8th IBRO World Congress of Neuroscience, Florence, Italy, 14-18/7/2011
 - 5th International Congress on Brain & Behavior, Thessaloniki, Greece, 3-6/11/2011
 - MEI 2012 – 1st International Conference on Medical Education Informatics, Thessaloniki, Greece, 6-7/4/2012
 - International Meeting on Spastic Movement Disorders, Thessaloniki, Greece, 19-20/10/2012
 - Neuroscience Day by Society of Applied Neurosciences, Thessaloniki, Greece, 26/6/2013
 - WFNS 2013 – 15th World Congress of Neurosurgery, Seoul, Korea, 8-13/10/2013
 - EANS Annual Meeting 2013: Neuro-Oncology, Tel Aviv, Israel, 11-14/11/2013
 - SAN 2014 – Society of Applied Neuroscience Meeting 2014, Utrecht, the Netherlands, 30/1-2/2/2014
 - 6th International Congress on Brain & Behavior, Thessaloniki, Greece, 6-8/2/2014
 - ELGGN – European Low Grade Glioma Network Annual Meeting, Thessaloniki, Greece, 2-3/5/2014
 - Joint International Meeting for Neurosurgeons, Kavala, Greece, 20-22/6/2014
 - 15th European Congress of Neurosurgery – EANS 2014, Prague, Czech Republic, 12-17/10/2014
 - MEI 2015 – 2nd International Conference on Medical Education Informatics, Thessaloniki, Greece, 18-20/6/2015
 - 16th European Congress of Neurosurgery – EANS 2106, Athens, Greece, 4-8/10/2016
 - SAN 2016 – 6th Biennial Conference of the Society of Applied Neuroscience, Corfu, Greece, 6-9/10/2016
 - Science and exploration and related technologies: ESA activities and opportunities for Greek scientists and researchers, Thessaloniki, Greece, 4/11/2016
 - 2017 IEEE 30th International Symposium on Computer-Based Medical Systems, Thessaloniki, Greece, 22-24/6/2017

- National Conferences & Workshops*
- 5th Scientific Congress of Medical School of Aristotle University of Thessaloniki, Thessaloniki, 2-5/4/2009
 - Neurosurgery 4: skills in the age of informatics – neurotechnologies, Thessaloniki, 2/4/2009
 - 23rd Annual Hellenic Congress of Neurosurgery, Alexandroupoli, 10-13/6/2009
 - 3rd Panhellenic Spine Congress, Athens, 16-18/10/2009
 - Update meeting for the referees of the Hippokratia Journal, Thessaloniki, 18-19/12/2009
 - 3rd Panhellenic Conference on Biomedical Technologies (ELEVIT), Chalkidiki, Greece, 28-29/5/2010
 - 26th Northern Greece Medical Congress, Thessaloniki, 31/3-2/4/2011
 - 6th Scientific Congress of Medical School of Aristotle University of Thessaloniki, Thessaloniki, 7-9/4/2011
 - 4th Panhellenic Congress of Hellenic Society of Large Intestinal – Anal Surgery, Thessaloniki, 19-22/5/2011
 - 25th Annual Hellenic Congress of Neurosurgery, Athens, 23-25/6/2011
 - 10th Congress of Surgical Society of Northern Greece, Thessaloniki, 8-10/12/2011
 - 26th Annual Hellenic Congress of Neurosurgery, Thessaloniki, 31/5-2/6/2012
 - 6th Panhellenic Spine Congress, Ioannina, 25-28/10/2012
 - 5th Panhellenic Congress of Vascular Cerebral Diseases, Thessaloniki, 8-9/3/2013
 - 28th Northern Greece Medical Congress, Thessaloniki, 4-6/4/2013
- 24 in Total from 2009 to 2017**

- 27th Annual Hellenic Congress of Neurosurgery, Athens, 27-29/6/2013
- 28th Annual Hellenic Congress of Neurosurgery, Kavala, 19-22/6/2014
- Hellenic Neurosurgical Society Meeting on Neurosurgical Training, Athens, 18/4/2015
- 30th Annual Hellenic Congress of Neurosurgery, Volos, 16-18/6/2016
- 10th Hellenic Spine Congress & Joint Meeting French and Turkish Spine Societies, Thessaloniki, Greece, 26-29/10/2016
- Studies in AUTH and the World at the 21st Century, Thessaloniki, Greece, 11-12/11/2016
- 7th Panhellenic Congress of Biomedical Technology, Athens, Greece, 7/4/2017
- 31th Annual Hellenic Congress of Neurosurgery, Ioannina, 15-17/6/2017
- IEEE EMBS Student Chapter AUTH: Brain Connectivity Networks, Thessaloniki, 12/12/2017

CME credits Total **432**

Skills & Other Participations

Other skills Experience in SPSS, MATLAB, EEGLAB, Brainstorm, eConnectome. Great knowledge of PC (Windows and MacOS, Office suites, Web, Photoediting). Driving Licence EU categories A & B.

Languages **Greek**, native language - **English**, Certificate of Proficiency in English, Un. of Michigan (level C2) - **French**, DALF C1 - Japanese, beginner

Other participations & interests Candidate in municipal elections in 2006 (municipality of Thermaikos, Thessaloniki). Posted articles in regional newspapers and magazines about politics, ecology, social matters and education in Greece. Interested (among others) in literature, music (plays guitar), miniature modeling, comics, role-playing games and strategy. Athlete of kendo (3rd kyu) and wu shu kwan kung fu (green belt), also plays basketball and runs.

References

- Konstantinos Polyzoidis** Professor of Neurosurgery, Former Chairman, 1st Department of Neurosurgery, AHEPA University General Hospital, Aristotle University of Thessaloniki, Greece - Diplome, American Board of Neurological Surgery - polyzoik@auth.gr - kostapol@otenet.gr
- Nicolas G. Foroglou** Associate Professor of Neurosurgery, 1st Department of Neurosurgery, AHEPA University General Hospital, Aristotle University of Thessaloniki, Greece - nforoglou@auth.gr
- Ioannis Magras** Associate Professor of Neurosurgery, 1st Department of Neurosurgery, AHEPA University General Hospital, Aristotle University of Thessaloniki, Greece - john.magras@gmail.com - jemagras@med.auth.gr
- Panagiotis D. Bamidis** Associate Professor, Lab of Medical Physics, Faculty of Medicine, School of Health Sciences, Aristotle University of Thessaloniki, Greece - bamidis@auth.gr - pdbamidis@gmail.com

Summary of Publications

Journal papers	21	Abstracts in international conferences	33 (10 oral, 23 posters)
Short Journal papers	3	Abstracts in national conferences	63 (29 oral, 4 oral & poster, 30 posters)
Chapters	3	Invited talks	3
Conference papers (peer reviewed)	12	Publications in lay press	1
Conference papers (not peer reviewed)	3	Theses	2 (<i>MSc, PhD</i>)
Abstracts in published proceedings (p.r.)	10		
<u>Citations</u>	104	<u>H index</u>	6
<i>Scopus</i>	40	<i>Scopus</i>	4
<i>Google Scholar</i>	91	<i>Google Scholar</i>	6
<i>ResearchGate</i>	85	<i>ResearchGate</i>	6
		<u>i10 index</u>	3
		<i>Scopus</i>	1
		<i>Google Scholar</i>	2
		<i>ResearchGate</i>	2

Selected Journal Publications

Source detection and functional connectivity of the sensorimotor cortex during actual and imaginary limb movement: a preliminary study on the implementation of eConnectome in motor imagery protocols (2012)

Athanasiou A, Lithari C, Kalogianni K, Klados MA, Bamidis PD

Advances in Human-Computer Interaction, 2012: 127627, 10 pages, <https://dx.doi.org/10.1155/2012/127627>

Towards brain computer interface control of a 6-degree of freedom robotic arm using dry EEG electrodes (2013)

Astaras A, Moustakas N, Athanasiou A, Gogoussis A

Advances in Human-Computer Interaction, 2013: 641074, 6 pages, <https://dx.doi.org/10.1155/2013/641074>

Anterolateral meningioma of the foramen magnum and high cervical spine presenting intradural and extradural growth in a child: case report and literature

review (2015)

Athanasίου A, Magras I, Sarlis P, Spyridopoulos E, Polyzoidis K
Child's Nervous System, 31(12): 2345-2351, <http://dx.doi.org/10.1007/s00381-015-2784-5>

Reappraisal of radionuclide cisternography in the diagnosis of chronic hydrocephalus - a single institution report (2015)

Athanasίου A, Prassas A, Alexopoulos G, Alexandris C, Tsolpidis P, Tsoleka K
Interdisciplinary Neurosurgery: Advanced Techniques and Case Management, 2(3): 142-144, <http://dx.doi.org/10.1016/j.inat.2015.06.001>

Investigating the role of alpha and beta rhythms in functional motor networks (2016)

Athanasίου A, Klados MA, Styliadis CH, Foroglou N, Polyzoidis K, Bamidis PD
Neuroscience (in press), <http://dx.doi.org/10.1016/j.neuroscience.2016.05.044>

Towards rehabilitation robotics: off-the-shelf BCI control of anthropomorphic robotic arms (2017)

Athanasίου A, Arfaras G, Pandria N, Kartsidis P, Kavazidi KR, Foroglou N, Astaras A, Bamidis PD
Biomed Research International, 2017: 5708937, 17 pages, <http://dx.doi.org/10.1155/2017/5708937>

Lasting bilateral mydriasis in traumatic brain injury may not always be a lost case (2017)

Athanasίου A, Balogiannis I, Magras I
Surgical Neurology International, 8: 229, http://dx.doi.org/10.4103/sni.sni_299_17

A systematic review of investigations into functional brain connectivity following spinal cord injury (2017)

Athanasίου A, Klados MA, Pandria N, Foroglou N, Kavazidi KR, Polyzoidis K, Bamidis PD
Frontiers in Human Neuroscience, 11: 517, <http://dx.doi.org/10.3389/fnhum.2017.00517>

Wireless brain-robot interface: user perception and performance assessment of spinal cord injury patients (2017)

Athanasίου A, Arfaras G, Pandria N, Xygonakis I, Foroglou N, Astaras A, Bamidis PD
Wireless Communication and Mobile Computing, 2017: 2986423, 16 pages, <https://doi.org/10.1155/2017/2986423>

Functional brain connectivity during multiple motor imagery tasks in spinal cord injury (2018)

Athanasίου A, Terzopoulos N, Pandria N, Xygonakis I, Foroglou N, Polyzoidis K, Bamidis PD
Neural Plasticity, 2018: 9354207 (in press)

Selected Conference Papers

Development and user assessment of a body-machine interface for a hybrid-controlled 6-degree of freedom robotic arm (MERCURY) (2014)

Moustakas N, Athanasίου A, Kartsidis P, Bamidis PD, Astaras A
In: Roa Romero LM (ed.) IFMBE Proceedings, 41: 65-68, Springer International Publishing Switzerland, doi:10.1007/978-3-319-00846-2_16

Development of MERCURY version 2.0 robotic arms for rehabilitation applications (2015)

Moustakas N, Kartsidis P, Athanasίου A, Astaras A, Bamidis PD
In: Proceedings of 8th ACM International Conference on Pervasive Technologies Related to Assistive Environments (PETRA 2015, Corfu, Greece, 1-3/7/2015). ACM, New York, Article 17, 4 pages. ISBN: 978-1-4503-3452-5. <https://dx.doi.org/10.1145/2769493.2769558>

State of the art and future prospects of nanotechnologies in the field of Brain-Computer Interfaces (2016)

Athanasίου A, Klados MA, Astaras A, Foroglou N, Magras I, Bamidis PD
In: Kyriacou E, Christofides S, Pattichis CS (eds.) IFMBE Proceedings, 57: 456-460, Springer International Publishing Switzerland, doi:10.1007/978-3-319-32703-7_90

Commercial BCI control and functional brain networks in spinal cord injury: a proof-of-concept (2017)

Athanasίου A, Arfaras G, Xygonakis I, Kartsidis P, Pandria N, Kavazidi KR, Astaras A, Foroglou N, Polyzoidis K, Bamidis PD
30th IEEE International Symposium on Computer-Based Medical Systems: 262-267, doi: 10.1109/CBMS.2017.35

Visual versus kinesthetic motor imagery for BCI control of robotic arms (Mercury 2.0) (2017)

Arfaras G, Athanasίου A, Pandria N, Kavazidi KR, Kartsidis P, Moustakas N, Astaras A, Bamidis PD
30th IEEE International Symposium on Computer-Based Medical Systems: 440-445, doi: 10.1109/CBMS.2017.34

FCLAB: An EEGLAB-plugin for performing functional connectivity analysis on single-subject EEG data (2018)

Pezoulas VC, Athanasίου A, Nolte G, Zervakis M, Fratini A, Fotiadis DI, Klados MA
IEEE International Conference on Biomedical and Health Informatics (BHI 2018): MoPO.12, doi:

Selected Abstracts

Graph analysis of sensorimotor cortex functional networks – comparison of alpha vs beta rhythm in motor imagery and execution (2014)

Athanasίου A, Foroglou N, Polyzoidis K, Bamidis PD
In: Gruzeliier JH, Arms M, Kenemans JL, Bamidis PD (eds.) SAN/NIHC 2014 Meeting Conference Program & Abstracts, p 64-65. ISBN/EAN: 9789077875810.
<https://dx.doi.org/10.13140/2.1.3183.3603>

Reorganization of brain networks after spinal cord injury: a qualitative synthesis of the literature (2016)

Athanasίου A, Klados MA, Foroglou N, Kavazidi KR, Polyzoidis K, Bamidis PD
Frontiers in Human Neuroscience Conference Abstract: SAN2016 Meeting. <https://dx.doi.org/10.3389/conf.fnhum.2016.220.00036>

Analysis of cortical sensorimotor networks formed during different motor task categories in spinal cord injury (2018)

Terzopoulos N, Xygonakis I, Pandria N, Athanasίου A, Bamidis PD
World Congress on Medical Physics & Biomedical Engineering – IUPESM 2018: to be presented