

Date of the CVA

18/02/2020

Section A. PERSONAL DATA

Name and Surname	MIGUEL ANGEL LOPEZ GORDO		
DNI	44287648K	Age	46
Researcher's identification number	Researcher ID	A-6629-2013	
	Scopus Author ID		
	ORCID	0000-0002-5470-1764	

A.1. Current professional situation

Institution	University of Granada		
Dpt. / Centre	Signal Theory, Telematics and Communications / Faculty of Computer Science and Telecommunication Engineering		
Address			
Phone		Email	malg@ugr.es
Professional category	Associate Professor	Start date	2018
UNESCO spec. code			
Keywords			

A.2. Academic education (Degrees, institutions, dates)

Bachelor/Master/PhD	University	Year
Master in Telecommunications and Information Technologies	University of Malaga (Spain)	2011
PhD in Telecommunications and Information Technologies (Neuro-engineering)	University of Granada (Spain)	2009
Telecommunication Engineering (Electrical Engineering)	University of Malaga (Spain)	1998

A.3. General quality indicators of scientific production

.-2x Sexenios de investigación (CNEAI, National Commission for Evaluation of Research, 6-years periods)

.-23x papers with IF (Journal Citation Report)

.-D1: 6/23 (26%)

.-Q1: 14/23 (61%)

.-Q1-Q2: 19/23 (83%) (high impact CNEAI)

.-As first author: 12/23 (52%)

.-Cites (source Scopus 2020)

.-h_index: 12

.-Total cites: 505

Section B. SUMMARY OF THE CURRICULUM

Miguel Angel Lopez finished his degree in Telecommunication engineering in 1998 and his Master's Degree in 2011, both in the University of Malaga (Spain). After 10 years working for TELCOs in international projects, he completed his PhD in Neuroengineering and achieved the Extraordinary Doctorate Award from the University of Granada (Spain) in 2014. Currently, he is Associate Professor at the Department of Signal Theory, Telematics and Communications (University of Granada). He researches in the field of applications and wearable electronics for Mobile Brain-computer interfaces (MBCI), bio-signal processing and immersive stimulation in the context of the affective computing. He is the Head of the Brain-computer Interface Lab and member of the 5G Lab in the Research Centre for Information and Communications Technologies of the University of Granada (CITIC-UGR)

Section C. MOST RELEVANT MERITS (ordered by typology)

C.1. Publications

- 1 **Scientific paper.** Jesus Minguillon; et al. (5/3). 2018. Portable System for Real-Time Detection of Stress Level Sensors. MDPI. 18, pp.1-15. ISSN 1424-8220.
- 2 **Scientific paper.** Francisco Porcel-Rodríguez; et al. (/1). 2016. Clustering and Beamforming for Efficient Communication in Wireless Sensor Networks Sensors. MDPI. 16-1334, pp.1-14. ISSN 1424-8220.
- 3 **Scientific paper.** M.A. Lopez-Gordo; D. Sanchez-Morillo; F. Pelayo Valle. (/1). 2014. Dry EEG Electrodes Sensors. MDPI. 14, pp.12847-12870. ISSN 1424-8220.
- 4 **Scientific paper.** M.D. Grima Murcia; et al. (6/3). 2019. Neural representation of different 3D architectural images: An EEG study Integrated Computer-Aided Engineering. 26-2, pp.197-205. ISSN 1069-2509.
- 5 **Scientific paper.** Jesus Minguillon; et al. (5/2). 2017. Blue lighting accelerates post-stress relaxation: Results of a preliminary study PLOS One. 12-10, pp.1-16. ISSN 1932-6203.
- 6 **Scientific paper.** Juan F. Valenzuela-Valdés; et al. (5/2). 2017. Human Neuro-Activity for Securing Body Area Networks: Application of Brain-Computer Interfaces to People-Centric Internet of Things IEEE Communications Magazine. pp.62-67. ISSN 0163-6804.
- 7 **Scientific paper.** Jesus Minguillon; MiguelA.Lopez-Gordo; FranciscoPelayo. 2016. Stress Assessment by Prefrontal Relative Gamma Frontiers in Computational Neuroscience. 10.
- 8 **Scientific paper.** Jesus Minguillon; M. Angel Lopez-Gordo; Francisco Pelayo. 2016. Trends in EEG-BCI for daily-life: Requirements for artifact removal Biomedical Signal Processing and Control. elsevier. 31, pp.407-418.
- 9 **Scientific paper.** Jesus Minguillon; M. Angel Lopez-Gordo; Francisco Pelayo. 2016. Detection of attention in multi-talker scenarios: A fuzzy approach Expert Systems With Applications. ELSEVIER. 64, pp.261-268.
- 10 **Scientific paper.** Lopez-Gordo, Miguel Angel; et al. (5/1). 2016. Asynchronous Detection of Trials onset from Raw EEG signals International journal of neural systems. ISSN 0129-0657.
- 11 **Scientific paper.** M. A. Lopez-Gordo; P. Padilla; F. Pelayo Valle. (3/1). 2016. A proposal for bio-synchronized transmission of EEG/ERP data EURASIP Journal on Wireless Communications and Networking. SPRINGER. 54, pp.1-12.
- 12 **Scientific paper.** Pablo Padilla; et al. (5/1). 2015. Performance Analysis of Different Link Layer Protocols in Wireless Sensor Networks (WSN) Wireless Pers Commun. 84-4, pp.3075-3089. ISSN 0929-6212.
- 13 **Scientific paper.** M.A.Lopez-Gordo; et al. (4/1). 2015. Phase-shift keying of EEG signals:Application to detect attention in multitalker scenarios Signal Processing. Elsevier. 117, pp.165-173.
- 14 **Scientific paper.** Lopez-Gordo, Miguel Angel; D. Sanchez Morillo; MARCEL A. J. VAN GERVEN. 2014. SPREADING CODES ENABLES THE BLIND ESTIMATION OF THE HEMODYNAMIC RESPONSE WITH SHORT-EVENTS SEQUENCES International journal of neural systems. 25-1, pp.1450035-1-1450035-12. ISSN 0129-0657.
- 15 **Scientific paper.** Sanchez-Morillo, Daniel; Lopez-Gordo, Miguel Angel; León-Jiménez, Antonio. 2014. Novel multiclass classification for home-based diagnosis of sleep apnea hypopnea syndrome Expert Systems with Applications. 41-4(2), pp.1654-1662.
- 16 **Scientific paper.** Lopez-Gordo, Miguel Angel; Pelayo-Valle, Francisco Jose. 2013. A BINARY PHASE-SHIFT KEYING RECEIVER FOR THE DETECTION OF ATTENTION TO HUMAN SPEECH International journal of neural systems. 23-4, pp.1350016-1-1350016-12.
- 17 **Scientific paper.** Perez-Florida, Javier; et al. 2012. A DETERMINISTIC MODEL SELECTION SCHEME FOR INCREMENTAL RBFNN CONSTRUCTION IN TIME SERIES FORECASTING Neural computing & applications (Print). 21-3, pp.595-610.
- 18 **Scientific paper.** Lopez-Gordo, Miguel Angel; et al. 2012. AN AUDITORY BRAIN-COMPUTER INTERFACE WITH ACCURACY PREDICTION INTERNATIONAL JOURNAL OF NEURAL SYSTEMS. 22, pp.1250009-1250022.
- 19 **Scientific paper.** Lopez-Gordo, Miguel Angel; et al. 2012. An auditory brain-computer interface evoked by natural speech Journal of neural engineering (Print). pp.036013-036013.

- 20 **Scientific paper.** Lopez-Gordo, Miguel Angel; et al. 2011. CUSTOMIZED STIMULATION ENHANCES PERFORMANCE OF INDEPENDENT BINARY SSVEP-BCIS CLINICAL NEUROPHYSIOLOGY. 122-1, pp.128-133.
- 21 **Scientific paper.** Lopez-Gordo, Miguel Angel; et al. 2010. USE OF PHASE IN BRAIN-COMPUTER INTERFACES BASED ON STEADY-STATE VISUAL EVOKED POTENTIALS Neural Processing Letters. 32-1, pp.1-9.
- 22 **Scientific paper.** Lopez-Gordo, Miguel Angel; et al. 2009. EVIDENCES OF COGNITIVE EFFECTS OVER AUDITORY STEADY-STATE RESPONSES BY MEANS OF ARTIFICIAL NEURAL NETWORKS AND ITS USE IN BRAIN-COMPUTER INTERFACES NEUROCOMPUTING. 72-16-18, pp.3617-3623.
- 23 **Scientific paper.** Miguel Angel Lopez Gordo; et al. 2009. Statistical Characterization of Steady-State Visual Evoked Potentials and Their Use in Brain-Computer Interfaces Neural Processing Letters. 29-3.
- 24 **Book chapter.** M. A. Fernandez-Granero; et al. 2015. A Machine Learning Approach to Prediction of Exacerbations of Chronic Obstructive Pulmonary Disease Artificial Computation in Biology and Medicine (LNCS). Springer. 9107, pp.305-311.
- 25 **Book chapter.** M. A. Lopez-Gordo; et al. 2015. Asynchronous EEG/ERP Acquisition for EEG Teleservices Artificial Computation in Biology and Medicine (LNCS). Springer. 9017, pp.296-304.
- 26 **Book chapter.** M. A. Lopez-Gordo; R. Ron-Angevin; F. Pelayo. 2015. Authentication of Brain-Computer Interface Users in Network Applications Advances in Computational Intelligence. Springer. 9094, pp.124-132.
- 27 **Book chapter.** M. D. G. Murcia; et al. 2015. Neural Recognition of Real and Computer-Designed Architectural Images Bioinspired Computation in Artificial Systems. Springer. 9108, pp.451-458.
- 28 **Book chapter.** E. Fernández; et al. 2015. Spatio-temporal Dynamics of Images with Emotional Bivalence Artificial Computation in Biology and Medicine (LNCS). Springer. 9107, pp.203-212.
- 29 **Book chapter.** Fernández-Granero, Miguel Angel; et al. 2013. RADIAL BASIS FUNCTION BASED PREDICTION OF COPD EXACERBATIONS IFMBE Proceedings XIII MEDITERRANEAN CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING AND COMPUTING 2013. 41-1, pp.1455-1458.
- 30 **Book chapter.** Lopez-Gordo, Miguel Angel; Prieto-Espinosa, Alberto; Pelayo-Valle, Francisco Jose. 2009. MULTIPLE AM MODULATED VISUAL STIMULI IN BRAIN-COMPUTER INTERFACE Lecture Notes in Computer Science. 5517, pp.683-689.
- 31 **Book chapter.** Lopez-Gordo, Miguel Angel; et al. 2007. SURFACE MODELLING WITH RADIAL BASIS FUNCTIONS NEURAL NETWORKS USING VIRTUAL ENVIRONMENTS Lecture Notes in Computer Science. 4507, pp.170-177.
- 32 **Book chapter.** Lopez-Gordo, Miguel Angel; et al. 2007. USE OF ANNS AS CLASSIFIERS FOR SELECTIVE ATTENTION BRAIN-COMPUTER INTERFACES Lecture Notes in Computer Science. 4507, pp.956-963.
- 33 **Book chapter.** Lopez-Gordo, Miguel Angel; Damas-Hermoso, Miguel; Prieto-Espinosa, Alberto. 2007. USE OF KOHONEN MAPS AS FEATURE SELECTOR FOR SELECTIVE ATTENTION BRAIN-COMPUTER INTERFACES Lecture Notes in Computer Science. 4527, pp.407-415.

C.2. Participation in R&D and Innovation projects

- 1 UNGR15-CE- 3311, Laboratorio de Comunicaciones 5G y sus aplicaciones AYUDAS A INFRAESTRUCTURAS Y EQUIPAMIENTO CIENTÍFICO?TÉCNICO. SUBPROGRAMA ESTATAL DE INFRAESTRUCTURAS CIENTÍFICAS Y TÉCNICAS Y EQUIPAMIENTO (PLAN ESTATAL I+D+I 2013?2016). Pablo Padilla. (University of Granada). 01/01/2016-31/12/2017. 372.018 €.
- 2 P11-TIC-7983, Plat-EEG PLATAFORMA DE ALTAS PRESTACIONES PARA LA ADQUISICIÓN, EXTRACCIÓN Y PROCESAMIENTO INTELIGENTE DE SEÑALES EEG Consejería de Economía, Innovación, Ciencia y Empleo de la JJAA. Proyectos de Excelencia de la Junta de Andalucía. FRANCISCO JOSE PELAYO VALLE. (University of Granada). From 27/06/2013. 100.639 €.

- 3 TEC2011-26395, INTERFACES CEREBRALES APLICADAS A PERSONAS CON DISCAPACIDAD MOTORA (INCADI) PROGRAMA NACIONAL DE PROYECTOS DE INVESTIGACION FUNDAMENTAL 2008-2011 DEL MINISTERIO DE CIENCIA E INNOVACION. RICARDO RON ANGEVIN. (University of Malaga). From 01/01/2012. 117.975 €.
- 4 P07-TIC-03310, SISTEMA DE INTERACCIÓN CEREBRAL PARA DISCAPACITADOS (BRAINS) PROYECTOS DE EXCELENCIA, JUNTA DE ANDALUCÍA. RICARDO RON ANGEVIN. (University of Malaga). From 19/12/2007. 338.001,54 €.

C.3. Participation in R&D and Innovation contracts

- 1 APLICACIONES DE LAS TIC EN LA ATENCION SOCIO SANITARIA 15/06/2011-30/09/2011.
- 2 PLATAFORMA TECNOLÓGICA COMÚN PARA UNIDAD TERMINAL REMOTA MIGUEL DAMAS HERMOSO. 15/07/2007-P229DT1H. 484.011 €.

C.4. Patents

MIGUEL ANGEL LOPEZ GORDO; ALBERTO PRIETO ESPINOSA; Madrid-Cañadas, Eduardo; FRANCISCO JOSE PELAYO VALLE. P201100304 - 2 396 811 A1. SISTEMA PARA LA COMUNICACIÓN Y REHABILITACIÓN DE SUJETOS EN ESTADO DE CONSCIENCIA DISMINUIDA