

Teoría de la Señal, Telemática y Comunicaciones

Áreas de conocimiento: Ingeniería Telemática (IT) y de Teoría de la Señal y Comunicaciones (TSC)

Director: Prof. Dra. María del Carmen Benítez Ortúzar

Secretario: Prof. Dr. José Camacho Páez

Página web: <http://tstc.ugr.es/>

Profesorado: CU: 7, PTU: 11, PTEU: 0, PDI Contratado y Otros: 29.

Tesis leídas

- Robust Speech Recognition on Intelligent Mobile Devices with Dual-Microphone

Doctorando: Iván López Espejo

Director: Antonio M. Peinado Herreros y Angel M. Gómez García

Fecha de lectura: 22 de septiembre de 2017

- Técnicas de estimación y reconstrucción para la transmisión robusta de la voz codificada

Doctorando: Domingo López Oller

Director: Ángel M. Gómez García y José Luis Pérez Córdoba

Fecha de lectura: 18 de septiembre de 2017

Grupos de Investigación.

TIC233 NETWORK ENGINEERING & SECURITY GROUP

- Responsable: PEDRO GARCÍA TEODORO

TIC123 PROCESADO DE SEÑAL Y COMUNICACIONES

- Responsable: JOSÉ CARLOS SEGURA LUNA

TIC218 SIGNAL PROCESSING AND BIOMEDICAL APPLICATIONS

- Responsable: JAVIER RAMÍREZ PÉREZ DE INESTROSA

TIC234 Signal Processing, Multimedia Transmission and Speech/Audio Technologies

- Responsable: ANTONIO MIGUEL PEINADO HERREROS

TIC244 Smart Wireless Applications and Technologies Group

- Responsable: Juan Valenzuela Valdés

TIC235 WIRELESS AND MULTIMEDIA NETWORKING LAB

- Responsable: JUAN MANUEL LÓPEZ SOLER

Dirección y participación en Proyectos I+D

- 2017 Evaluación electrofisiológica del efecto del color (sala de cromoterapia) en los niveles de stress, ,
15/05/2017-14/05/2018

Investigador/a MIGUEL ANGEL LOPEZ GORDO

Publicaciones en revistas

- 2018 Artículo: Evaluation of diagnosis methods in PCA-based Multivariate Statistical Process Control, Chemometrics and Intelligent Laboratory Systems, , , -

GABRIEL MACIÁ FERNÁNDEZ

JOSÉ CAMACHO PÁEZ

- 2018 Artículo: UGR'16: A New Dataset for the Evaluation of Cyclostationarity-Based Network IDSs, Computers & Security, 73, , 411-424

GABRIEL MACIÁ FERNÁNDEZ

JOSÉ CAMACHO PÁEZ

PEDRO GARCÍA TEODORO

ROBERTO MAGÁN CARRIÓN

- 2018 Artículo: R-Locker: Thwarting Ransomware Action through a Honeyfile-based, Computers & Security, 73, , 389-398

PEDRO GARCÍA TEODORO

- 2018 Artículo: Discriminative Sparse Features for Alzheimer's Disease Diagnosis using multimodal image data, Current Alzheimer Research, 15, 1, 67-79

FRANCISCO JESÚS MARTÍNEZ MURCIA

JAVIER RAMÍREZ PÉREZ DE INESTROSA

JUAN MANUEL GORRIZ SAEZ

- 2018 Artículo: Adaptive Cell Outage Compensation in Self-Organizing Networks, IEEE Transactions on Vehicular Technology, , , -

PABLO MUÑOZ LUENGO

- 2018 Artículo: Assessing Mild Cognitive Impairment Progression using a Spherical Brain Mapping of Magnetic Resonance Imaging, Journal of Alzheimer's Disease, Preprint, , 1-17

DIEGO CASTILLO BARNES

DIEGO SALAS GONZÁLEZ

- FERMÍN SEGOVIA ROMÁN
FRANCISCO JESÚS MARTÍNEZ MURCIA
JAVIER RAMÍREZ PÉREZ DE INESTROSA
JUAN MANUEL GORRIZ SAEZ
- 2017 Artículo: Real-time optimal combination of multifrequency information in phase-resolved luminescence spectroscopy based on rectangular-wave signals, *Sensors and Actuators B: Chemical*, 238, , 221-225
ANGEL DE LA TORRE VEGA
JOSÉ CARLOS SEGURA LUNA
M^a SONIA MOTA FERNÁNDEZ
- 2017 Artículo: Analysing the influence of the fitness function on genetically programmed bots for a real-time strategy game, *Entertainment Computing*, 18, January 2017, 15-29
ANTONIO MIGUEL MORA GARCÍA
- 2017 Artículo: Applying computational intelligence methods for predicting the sales of newly published books in a real editorial business management environment, *Knowledge-Based Systems*, 115, , 133-151
ANTONIO MIGUEL MORA GARCÍA
- 2017 Artículo: Spectral reconstruction and noise model estimation based on a masking model for noise-robust speech recognition, *Circuits, Systems and Signal Processing*, en prensa, , 1-19
ANGEL MANUEL GÓMEZ GARCÍA
ANTONIO MIGUEL PEINADO HERREROS
- 2017 Artículo: Dual-channel VTS feature compensation for noise-robust speech recognition on mobile devices, *IET signal processing*, 11, 1, 17-25
ANGEL MANUEL GÓMEZ GARCÍA
ANTONIO MIGUEL PEINADO HERREROS
- 2017 Artículo: Group-wise Principal Component Analysis for Exploratory Data Analysis, *Journal of Computational and Graphical Statistics*, , , -
JOSÉ CAMACHO PÁEZ
- 2017 Artículo: On the Generation of Random Multivariate Data, *Chemometrics and Intelligent Laboratory Systems*, 160, , 40-51
JOSÉ CAMACHO PÁEZ
- 2017 Artículo: Trends in EEG-BCI for daily-life: Requirements for artifact removal, *Biomedical Signal Processing and Control*, 31, , 407-418
MIGUEL ANGEL LOPEZ GORDO
- 2017 Artículo: Human Neuro-Activity for Securing Body Area Networks: Application of Brain-Computer Interfaces to People-Centric Internet of Things, *IEEE Communications Magazine*, 55, 2, 62-67
JUAN VALENZUELA VALDÉS
MIGUEL ANGEL LOPEZ GORDO
PABLO PADILLA DE LA TORRE
- 2017 Artículo: Time-Domain Shielding Effectiveness of Enclosures Against a Plane Wave Excitation, *IEEE Transactions on Electromagnetic Compatibility*, , , -
JUAN VALENZUELA VALDÉS
- 2017 Artículo: Further on 'Broadband electronically tunable reflection-based phase shifter for active-steering microwave reflectarray systems in Ku-Band': prototype validation, *Journal of Electromagnetic Waves and Applications*, 31, 4, 427-432
JUAN VALENZUELA VALDÉS
PABLO PADILLA DE LA TORRE
- 2017 Artículo: On Understanding the Existence of a Deep Torrent, *IEEE Communications Magazine*, , , -
GABRIEL MACIÁ FERNÁNDEZ
RAFAEL ALEJANDRO RODRÍGUEZ GÓMEZ
- 2017 Artículo: Improving Cell Outage Management Through Data Analysis, *IEEE Wireless Communications Magazine*, 24, 4, 113-119
PABLO MUÑOZ LUENGO
- 2017 Artículo: Knowledge Acquisition for Fault Management in LTE Networks, *Wireless Personal Communications*, , , 1-20
PABLO MUÑOZ LUENGO
- 2017 Artículo: P300 brainwave extraction from EEG signals: an unsupervised approach, *Expert systems with applications*, 74, 15, 1-10
JAVIER RAMÍREZ PÉREZ DE INESTROSA
JUAN MANUEL GORRIZ SAEZ
- 2017 Artículo: Independent Component Analysis-Support Vector Machine-Based Computer-Aided Diagnosis System for Alzheimer's with Visual Support, *International Journal of Neural Systems*, 27, 3, 1-17
IGNACIO ALVAREZ ILLAN
JAVIER RAMÍREZ PÉREZ DE INESTROSA
JUAN MANUEL GORRIZ SAEZ

- 2017 Artículo: Multivariate Analysis of 18F-DMFP PET Data to Assist the Diagnosis of Parkinsonism, *Frontiers In Neuroinformatics*, 11, 1, 1-9
FERMÍN SEGOVIA ROMÁN
FRANCISCO JESÚS MARTÍNEZ MURCIA
JAVIER RAMÍREZ PÉREZ DE INESTROSA
JUAN MANUEL GORRIZ SAEZ
- 2017 Artículo: A statistical analysis of the kernel-based MMSE estimator with application to image reconstruction, *Signal Processing: Image Communication*, , 55, 41-54
ANGEL MANUEL GÓMEZ GARCÍA
ANTONIO MIGUEL PEINADO HERREROS
VICTORIA EUGENIA SÁNCHEZ CALLE
- 2017 Artículo: Electromagnetic near field inhomogeneity reduction for image acquisition optimization in high resolution multi-channel magnetic resonance imaging (MRI) systems, *IEEE Access*, 5, -, 5149-5157
JUAN VALENZUELA VALDÉS
PABLO PADILLA DE LA TORRE
- 2017 Artículo: Human neuro-activity for securing Body Area Networks: application to People-centric, *Internet of Things*, *IEEE Communications Magazine*, 55, 2, 62-67
JUAN VALENZUELA VALDÉS
MIGUEL ANGEL LOPEZ GORDO
PABLO PADILLA DE LA TORRE
- 2017 Artículo: *Journal of Internet Technology*, *Journal of Internet Technology*, 18, , 787-800
JESÚS E. DÍAZ VERDEJO
- 2017 Artículo: Sistema BCI multiusuario, *Cognitive Area Networks*, 4, 1, 49-53
MIGUEL ANGEL LOPEZ GORDO
- 2017 Artículo: Blue lighting accelerates post-stress relaxation: Results of a preliminary study, *PloS One*, 12, 10,
MIGUEL ANGEL LOPEZ GORDO
- 2017 Artículo: New insights on Mt. Etna's crust and relationship with the regional tectonic framework from joint active and passive P-wave seismic tomography, *Surveys in Geophysics*, , , 1-41
ISAAC MANUEL ALVAREZ RUIZ
LUZ GARCÍA MARTÍNEZ
- 2017 Artículo: Automatic Detection of Long Period Events Based on Subband-Envelope Processing, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, , , 1-9
ANGEL DE LA TORRE VEGA
ISAAC MANUEL ALVAREZ RUIZ
LUZ GARCÍA MARTÍNEZ
MARIA DEL CARMEN BENITEZ ORTÚZAR
- 2017 Artículo: Construction and Analysis of weighted brain networks from SICE for the study of Alzheimer's Disease, *Frontiers In Neuroinformatics*, 11, 1, 11-19
JAVIER RAMÍREZ PÉREZ DE INESTROSA
JUAN MANUEL GORRIZ SAEZ
- 2017 Artículo: A Semi-Supervised Learning Approach for Model Selection Based on Class-Hypothesis Testing, *Expert systems with applications*, 90, 1, 40-49
DIEGO SALAS GONZÁLEZ
FRANCISCO JESÚS MARTÍNEZ MURCIA
IGNACIO ALVAREZ ILLAN
JAVIER RAMÍREZ PÉREZ DE INESTROSA
JUAN MANUEL GORRIZ SAEZ
- 2017 Artículo: Narrowband IoT Data Transmission Procedures for Massive Machine-Type Communications, *IEEE Network: the magazine of global internetworking*, 31, 6, 8-15
JONATHAN PRADOS GARZÓN
JORGE NAVARRO ORTIZ
JUAN MANUEL LÓPEZ SOLER
PABLO AMEIGEIRAS GUTIÉRREZ
PILAR ANDRÉS MALDONADO
- 2017 Artículo: A Dynamical Relay node placement solution for MANETs, *Computer Communications*, 114, , 36-50
JOSÉ CAMACHO PÁEZ
PEDRO GARCÍA TEODORO
ROBERTO MAGÁN CARRIÓN

Contribuciones en congresos

- 2017 Ponencia en Congreso: Comparing Wireless Traffic Tracking with Regular Traffic Control Systems for the Detection of Congestions in Streets, *International Conference on Smart Cities*, 14/06/2017, Málaga España,

Congreso

ANTONIO MIGUEL MORA GARCÍA

- 2017 Sesión plenaria en Congreso: Low-Cost Wearable Bluetooth Sensor for Epileptic Episodes Detection, IEEE International Conference on Communications, 21/05/2017, PARÍS (FRANCIA), Congreso

JORGE NAVARRO ORTIZ

SANDRA SENDRA COMPTE

- 2017 Comunicación en congreso: Traffic Monitoring and Diagnosis with Multivariate Statistical Network Monitoring: A Case Study, 2nd International Workshop on Traffic Measurements for Cybersecurity(WTMC 2017), 22/05/2017, San José (USA), Seminario

GABRIEL MACIÁ FERNÁNDEZ

JOSÉ CAMACHO PÁEZ

PEDRO GARCÍA TEODORO

- 2017 Ponencia en Taller de trabajo: Optimized LTE Data Transmission Procedures for IoT: Device Side Energy Consumption Analysis, International Workshop on Application of green techniques to emerging communication and computing paradigms, 21/05/2017, PARÍS, Taller de trabajo

JUAN JOSÉ RAMOS MUÑOZ

JUAN MANUEL LÓPEZ SOLER

JONATHAN PRADOS GARZÓN

PABLO AMEIGEIRAS GUTIÉRREZ

PILAR ANDRÉS MALDONADO

- 2017 Ponencia en Taller de trabajo: Analytical Modeling for Virtualized Network Functions, 4th International Workshop on 5G Architecture, 25/05/2017, , Taller de trabajo

JONATHAN PRADOS GARZÓN

PABLO AMEIGEIRAS GUTIÉRREZ

JUAN JOSÉ RAMOS MUÑOZ

JUAN MANUEL LÓPEZ SOLER

PILAR ANDRÉS MALDONADO

- 2017 Comunicación en congreso: Driving in TORCS using modular fuzzy controllers, EVO*- 2017 (EvoApplications), 19/04/2017, AMSTERDAM, Congreso

ANTONIO MIGUEL MORA GARCÍA

- 2017 Conferencias impartidas en Congreso: Internet Móvil, Máster Universitario en Ingeniería Informática-UC3M, 26/04/2017, Leganés, - MADRID, ESPAÑA, Congreso

PEDRO GARCÍA TEODORO

- 2017 Comunicación en congreso: Analysis of 18F-DMFP-PET data using Hidden Markov Random Field and the Gaussian distribution to assist the diagnosis of Parkinsonism, SPIE Medical Imaging 2017, 11/02/2017, Orlando, USA, Congreso

FERMÍN SEGOVIA ROMÁN

FRANCISCO JESÚS MARTÍNEZ MURCIA

JAVIER RAMÍREZ PÉREZ DE INESTROSA

JUAN MANUEL GORRIZ SAEZ

DIEGO SALAS GONZÁLEZ

- 2017 Comunicación en congreso: Automatic separation of parkinsonian patients and control subjects based on the striatal morphology, 7th. INTERNATIONAL WORK-CONFERENCE on the INTERPLAY between NATURAL and ARTIFICIAL COMPUTATION, 19/06/2017, La Coruña, Spain, Congreso

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FERMÍN SEGOVIA ROMÁN

- 2017 Comunicación en congreso: Evaluating Alzheimer's Disease Diagnosis Using Texture Analysis, Medical Image Understanding and Analysis 2017, 11/07/2017, Pollock Halls, Edimburgh, UK, Congreso

JUAN MANUEL GORRIZ SAEZ

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FRANCISCO JESÚS MARTÍNEZ MURCIA

- 2017 Comunicación en congreso: A 3D Convolutional Neural Network Approach for the Diagnosis of Parkinson's Disease, 7th. INTERNATIONAL WORK-CONFERENCE on the INTERPLAY between NATURAL and ARTIFICIAL COMPUTATION, 19/06/2017, La Coruña, Spain, Congreso

JAVIER RAMÍREZ PÉREZ DE INESTROSA
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DIEGO SALAS GONZÁLEZ
DIEGO CASTILLO BARNES
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JUAN MANUEL GORRIZ SAEZ

- 2017 Comunicación en congreso: Improved Image Based Protein Representations with Application to Membrane Protein Type Prediction,- 2017 40th International Conference on Telecommunications and Signal Processing, 05/07/2017, . BARCELONA, ESPAÑA, Congreso

ANTONIO MIGUEL PEINADO HERREROS
JUAN ANDRÉS MORALES CORDOVILLA
VICTORIA EUGENIA SÁNCHEZ CALLE

- 2017 Comunicación en congreso: Capacity Self-Planning in Small Cell Multi-Tenant 5G Networks, 2nd IFIP/IEEE International Workshop on Management of 5G Networks, 12/05/2017, Lisboa, Congreso

PABLO MUÑOZ LUENGO

- 2017 Poster en Congreso: Study of correlation and power imbalance on the MIMO distributed system, 11th European Conference on Antennas and Propagation, 19/03/2017, PARIS, Congreso

JUAN VALENZUELA VALDÉS
JUAN CARLOS GONZÁLEZ MACIAS
PABLO PADILLA DE LA TORRE

- 2017 Comunicación en congreso: On a heavy-tailed intensity normalization of the Parkinson's Progression Markers Initiative brain database, 7th. INTERNATIONAL WORK-CONFERENCE on the INTERPLAY between NATURAL and ARTIFICIAL COMPUTATION, 19/06/2017, La Coruña, Spain, Congreso

FERMÍN SEGOVIA ROMÁN
FRANCISCO JESÚS MARTÍNEZ MURCIA
IGNACIO ALVAREZ ILLAN
JUAN MANUEL GORRIZ SAEZ

DIEGO CASTILLO BARNES

DIEGO SALAS GONZÁLEZ

JAVIER RAMÍREZ PÉREZ DE INESTROSA

- 2017 Conferencias impartidas en congreso: RF research outcomes of SWAT-UGR group in the frame of 5G, 5G European research meeting, 12/05/2017, Estocolmo, Suecia, Congreso

PABLO PADILLA DE LA TORRE

- 2017 Comunicación en congreso: A univariate approach for diagnosis in PCA-MSPC, XV Scandinavian Symposium on Chemometrics, 19/06/2017, Naantali, Finlandia, Congreso

GABRIEL MACIÁ FERNÁNDEZ
JOSÉ CAMACHO PÁEZ

- 2017 Comunicación en congreso: Case-based statistical learning applied to SPECT image classification, SPIE Medical Imaging 2017, 11/02/2017, Orlando, USA, Congreso

IGNACIO ALVAREZ ILLAN
FRANCISCO JESÚS MARTÍNEZ MURCIA
JAVIER RAMÍREZ PÉREZ DE INESTROSA
JUAN MANUEL GORRIZ SAEZ

FERMÍN SEGOVIA ROMÁN

DIEGO SALAS GONZÁLEZ

- 2017 Comunicación en congreso: Detección temprana de ransomware en Android, III Jornadas Nacionales de Investigación en Ciberseguridad, 31/05/2017, Madrid, Congreso

PEDRO GARCÍA TEODORO

- 2017 Comunicación en congreso: GROUP-WISE PRINCIPAL COMPONENT ANALYSIS, 15th Scandinavian Symposium on Chemometrics, 19/06/2017, Naantali, Congreso

JOSÉ CAMACHO PÁEZ

- 2017 Comunicación en congreso: Securing Passwords Beyond Human Capabilities with a Wearable Neuro-Device, 7th. INTERNATIONAL WORK-CONFERENCE on the INTERPLAY between NATURAL and ARTIFICIAL COMPUTATION, 19/06/2017, La Coruña, Spain, Congreso

MIGUEL ANGEL LOPEZ GORDO

JUAN VALENZUELA VALDÉS

PABLO PADILLA DE LA TORRE

- 2017 Comunicación en congreso: A Mobile Brain-Computer Interface for Clinical Applications: From the Lab to the Ubiquity, 7th. INTERNATIONAL WORK-CONFERENCE on the INTERPLAY between NATURAL and ARTIFICIAL COMPUTATION, 19/06/2017, La Coruña, Spain, Congreso

MIGUEL ANGEL LOPEZ GORDO

- 2017 Comunicación en congreso: Tree ensemble-based techniques in the analysis of parkinsonian syndromes,



Medical Image Understanding and Analysis, 11/07/2017, EDIMBURGO - REINO UNIDO, Congreso

JAVIER RAMÍREZ PÉREZ DE INESTROSA

- 2017 Comunicación en congreso: Learning longitudinal MRI patterns by SICE and Deep Learning: assesing the Alzheimer's Disease Progression, Medical Image Understanding and Analysis, 11/07/2017, EDIMBURGO - REINO UNIDO, Congreso

JAVIER RAMÍREZ PÉREZ DE INESTROSA

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JUAN MANUEL GORRIZ SAEZ