PORTUGUESE SPACE PLAYERS PROFILES

11 NOVEMBER 2015
PORTUGAL SPACE DAY 2015
INFORMATION & NETWORKING EVENT
Active Space Technologies S.A.

Ricardo Patricio
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CEO

ENTITY PROFILE
Country
Portugal
Web (Url)
www.activespacetech.com
Organisation type
Company (SME)
Organisation size
26-50
Organisation description
Electro-mechanical systems for space, aeronautics, and industry
Cooperation profile
Power control, Megaconstellations, additive manufacturing, space weather

TOPICS OF INTEREST FROM H2020 SPACE WP 2016-2017
Earth Observation
EO-1-2017: Downstream applications
Competitiveness of European Space Science and Technology
COMPET-1-2016: Technologies for European non-dependence and competitiveness
COMPET-2-2016: Maturing satellite communication technologies
COMPET-1-2017: Technologies for European non-dependence and competitiveness
COMPET-5-2017: Space Weather
GALILEO/EGNOS
GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS
PEGASUS
Title
Flight Qualification of Deployable Radiator using two phase technology
Programme
H2020
URL
http://pegasus-dpr.eu/
SLOGAN
Title
Space Qualification of High-power SSPA based on GaN technology
Programme
FP7
URL
http://www.fp7-slogan.eu/
PEASSS
Title
PEASSS in Space – PiezoElectric Assisted Smart Satellite
Programme
FP7
URL
Bluecover Technologies Lda

Nuno Duro
nduro@bluecover.pt
CEO

ENTITY PROFILE
Country
Portugal
Web (Url)
www.evoleotech.com
Organisation type
Company (SME)
Organisation size
1-10
Organisation description
Bluecover Technologies
Cooperation profile
EGNSS and Earth Observation applications

TOPICS OF INTEREST FROM H2020 SPACE WP 2016-2017
Earth Observation
EO-1-2016: Downstream applications
EO-1-2017: Downstream applications
Competitiveness of European Space Science and Technology
COMPET-5-2017: Space Weather
GALILEO/EGNOS
GALILEO-1-2017: EGNSS Transport applications
GALILEO-2-2017: EGNSS mass market applications
GALILEO-3-2017: EGNSS professional applications

MAIN PROJECTS

golfracker
Title
Automatic tracking of golf games for improvement and training purposes, using GNSS receivers, wearable sensors and Earth Observation information
Programe
H2020
URL
http://www.trueshotgolf.com/

SWAIR
Title
Space weather impact on GNSS service for Air Navigation
Programe
NEW: ESA Small ARTES
URL
http://space.ipn.pt/
C - MAST, Centre for Aerospace and Mechanical Science and Technologies, University of Beira Interior

Anna Guerman / Tessaleno Devezas  
anna@ubi.pt  
Associate Professor

ENTITY PROFILE
Country  
Portugal
Web (Url)  
www.aerospace.ubi.pt
Organisation type  
University
Organisation size  
51-250
Organisation description  
The Centre for Mechanical and Aerospace Science and Technologies (C-MAST) develops research activities, organized in two research groups: 1) AeroMaS - Aerospace Materials and Structures; 2) EnerMeF - Energy and Mechanics of Fluids.
AeroMaS performs research on materials and structures for aerospace with several applications for other purposes. The research lines are:
- Space Structures
- Trends in Space Systems
- Nanotechnologies Applied to the Hybrid Composites
- Composite Structures Monitoring with Optical Sensors
- Recycling and Reutilization of Industrial Waste
- Materials Usage

C-MAST, Centre for Aerospace and Mechanical Science and Technologies, University of Beira Interior

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017
Earth Observation
EO-3-2016: Evolution of Copernicus services
Competitiveness of European Space Science and Technology
COMPET-1-2016: Technologies for European non-dependence and competitiveness
COMPET-3-2016-a: SRC - In-Space electrical propulsion and station keeping - Incremental Technologies
COMPET-3-2016-b: SRC - In-Space electrical propulsion and station keeping – Disruptive
COMPET-4-2016: SRC - Space Robotics Technologies
COMPET-1-2017: Technologies for European non-dependence and competitiveness

GALILEO/EGNOS
GALILEO-1-2017: EGNSS Transport applications
GALILEO-2-2017: EGNSS mass market applications
GALILEO / EGNOS Evolution, Mission and Service related R&D activities

MAIN PROJECTS
ACHEON
Title  
Aerial Coanda High Efficiency Orienting-jet Nozzle
Programme  
FP7
URL  
http://acheon.eu/
CROP
Title
Cycloidal Rotors Optimized for Propulsion
Program
FP7
URL
http://www.crop-project.eu/nl/01/newsletter.html

MAAT
Title
Multibody Advanced Airship for Transport
Program
FP7
URL
http://www.eumaat.info/
CCTAE - Center for Aeronautical and Space Science and Tecnology

Luis Manuel Braga da Costa Campos  
luis.campos@ist.utl.pt  
Professor

Entity Profile
Country
Portugal
Web (Url)

Organisation type
University
Organisation size
+250

Organisation description
CCTAE (Center for Aeronautical and Space Science and Research) has been active in 45 projects, including 25 EU and ESA funded projects since 1980, 10 books (7 by international publishers) since 1988, 140 papers in 80 refereed journals since 1978, and reviewing for 40 specialized journals since 1982. The main areas of interest related to H2020 Space are: http://tecnico.ulisboa.pt/en/research/

Cooperation profile
1 – Satellite navigation for traffic management and collision avoidance: We can calculate trajectories with a given very low probability of collision based on the accuracy of the position data for vehicles; example ICAO Target Level of Safety of probability of collision less than 5E-9 per hour for aircraft. 2- Rocket trajectories in the atmosphere and space including lift effects for winged vehicles; example two-point boundary-value problems specifying the orbital condition to be reached from a given launch state: indication of feasibility and optimization. 3 – Aerothermodynamics: Flow at sustained hypersonic around vehicles with heat exchange with the structure.; example calculation of heat flux, surrounding flow parameters and thermal stresses in the structure. 4 – Magnetohydrodynamics and ionic propulsion; example steady and unsteady ionized flows in external magnetic fields, particle trajectories and interactions. 5 – Solar-terrestrial physics: unsteady flows and magnetic fields in the solar arising from expansion of the solar corona and magnetic events like flares and coronal mass ejections. 6 – Solar and stellar astrophysics: physical properties related to observations of the atmospheres of the sun and other magnetic and/or rotating stars and relation to internal structure. We are open to other suggestions.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation
EO-3-2016: Evolution of Copernicus services

Competitiveness of European Space Science and Technology
COMPET-1-2016: Technologies for European non-dependence and competitiveness
COMPET-3-2016-a: SRC - In-Space electrical propulsion and station keeping - Incremental Technologies
COMPET-3-2016-b: SRC - In-Space electrical propulsion and station keeping – Disruptive
COMPET-1-2017: Technologies for European non-dependence and competitiveness
COMPET-5-2017: Space Weather

GALILEO/EGNOS
GALILEO-1-2017: EGNSS Transport applications
CITEUC - Research Centre for Earth and Space of University of Coimbra

Teresa Barata
mtbarata@gmail.com
Assistant Professor

ENTITY PROFILE
Country
Portugal
Web (Url)
http://geofisico.dyndns.org/
Organisation type
University
Organisation size
26–50
Organisation description
We are a Portuguese center dedicated to research about the Solar System as a whole and at all scales. This translates to strongly interdisciplinary regards over the Sun, Venus, Earth, Mars, Titan, and smaller bodies. We are a medium-dimension team with training in geophysics, geology, physics, mathematics, astronomy and astrophysics, organized in two complementary research groups: Earth Dynamics: focuses on the Earth's inner structure and processes therein, crustal evolution and Earth's history Solar System Sciences: focuses on Solar Physics, celestial mechanics, small bodies, and planetary geology.

Cooperation profile
The strategic objective of CITEUC is the development of a laboratory (SPINLAB - Space Monitoring and Forecasting - Planetary Interactions Laboratory) to monitoring, predict and mitigate the effects of Space Weather on different social and economic fields, based solar and magnetic data a acquired daily by OGAUJC We are housed at the Geophysical and Astronomical Observatory of Coimbra University (OGAUC).

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017
Earth Observation
EO-2–2016: Downstream services for public authorities
Competitiveness of European Space Science and Technology
COMPET-1-2017: Technologies for European non-dependence and competitiveness
COMPET-2-2017: Competitiveness in Earth observation mission technologies
COMPET-4-2017: Scientific data exploitation,
COMPET-5-2017: Space Weather

GALILEO/EGNOS
GALILEO-4-2017: EGNSS awareness raising and capacity building

MAIN PROJECTS
DtC
Title
Discover the Cosmos
Programme
FP7
URL
http://www.discoverthecosmos.eu/

PTTI - Space Weather
Title
Solar Risk Service for Air Navigation and Oil & Gas
Programme
ESA
URL
http://ptti.ipn.pt/news_items/43

CG4
Title
Collaboratory for Geosciences
Programme
FCT
URL
http://segal.ubi.pt/C4G/

MAGIC/MARTE
Title
Mars Atmospheric, Geologic and Exobiologic Classification
Programme
FCT

CAMEL
Title
Caracterização e Classificação de Campos de Dunas em Marte Baseada em Análogos Terrestres
Programme
FCT
URL
http://www.mat.uc.pt/camel/
Critical Software S.A.

Paulo Guedes  
pgueudes@criticalsoftware.com  
Business Development Director

ENTITY PROFILE
Country  
Portugal  
Web (Url)  
www.criticalsoftware.com  
Organisation type  
Company (Large)  
Organisation size  
+250

Organisation description  
With a reputation for delivering 'best-in-class' solutions to high-profile customers in the space industry, CRITICAL Software has provided software services and products for mission-critical subsystems and interfaces since 1998.

Cooperation profile  
N/A

TOPICS OF INTEREST FROM H2020 SPACE WP 2016-2017
Earth Observation  
EO-1-2016: Downstream applications  
EO-2-2016: Downstream services for public authorities  
EO-3-2016: Evolution of Copernicus services  
EO-1-2017: Downstream applications  
EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology  
COMPET-4-2016: SRC - Space Robotics Technologies  
COMPET-5-2016: Scientific Instrumentation  
COMPET-2-2017: Competitiveness in Earth observation mission technologies

GALILEO/EGNOS  
GALILEO-1-2017: EGNSS Transport applications  
GALILEO-2-2017: EGNSS mass market applications  
GALILEO-3-2017: EGNSS professional applications  
GALILEO-4-2017: EGNSS awareness raising and capacity building  
GALILEO / EGNOS Evolution, Mission and Service related R&D activities

MAIN PROJECTS

**Exomars TGO**  
Title  
Exomars TGO Onboard Software  
Program  
ESA

**SOLO**  
Title  
Solar Orbiter Onboard Software  
Program  
ESA

**Sentinel-3**  
Title  
Sentinel-3 Onboard Software  
Program  
ESA

**Sentinel-2**  
Title  
Sentinel-2 Onboard Software  
Program  
ESA

**Sentinel-1**  
Title  
Sentinel-1 Independent Software Verification & Validation  
Program  
ESA
DEIMOS Engenharia S.A.

Pedro Freire da Silva  
pedro.silva@deimos.com.pt  
Business Unit Director

ENTITY PROFILE

Country  
Portugal

Web (Url)  
www.deimos.com.pt

Organisation type  
Company (Large)

Organisation size  
26-50

Organisation description  
DEIMOS Engenharia is an aerospace systems engineering company performing R&D, engineering, product development and applications of space technologies on space missions and downstream sectors.

Cooperation profile  
Aerospace Engineering active in all ESA main programs including Earth Observation, GNSS and GNC domains - GNC, GNSS, Earth Observation, Galileo, Receivers, GNSS-Reflectometry, PRS

TOPICS OF INTEREST FROM H2020 SPACE WP 2016-2017

Earth Observation  
EO-1-2016: Downstream applications

Competitiveness of European Space Science and Technology  
COMPET-2-2016: Maturing satellite communication technologies  
COMPET-3-2016-a: SRC - In-Space electrical propulsion and station keeping - Incremental Technologies  
COMPET-3-2016-b: SRC - In-Space electrical propulsion and station keeping - Disruptive  
COMPET-2-2017: Competitiveness in Earth observation mission technologies  
COMPET-4-2017: Scientific data exploitation  
COMPET-7-2017: Technology transfer and business

generators  

GALILEO/EGNOS  
GALILEO-1-2017: EGNSS Transport applications  
GALILEO-2-2017: EGNSS mass market applications  
GALILEO-3-2017: EGNSS professional applications  
GALILEO / EGNOS Evolution, Mission and Service related R&D activities  
GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS

ENCORE  
Title  
Enhanced Galileo Code Receiver for Land Management in Brazil  
Programme  
FP7  
URL  
http://www.enceroproject.org/

COREGAL  
Title  
Combined Positioning-Reflectometry Galileo Code Receiver for Forest Management  
Programme  
H2020  
URL  
http://coregalproject.com

LunarGNSS  
Title  
Lunar GNSS  
Programme  
ESA

GNSSGEO  
Title  
Feasibility Study for GNSS in GEO and Highly Elliptic Orbits  
Programme  
ESA
DEIMOS Engenharia S.A.

Nuno Avila Martins
nuno.avila@deimos.com.pt
General Manager

ENTITY PROFILE
Country
Portugal
Web (Url)
www.deimos.pt
Organisation type
Company (SME)
Organisation size
26-50
Organisation description
DEIMOS Engenharia is an aerospace systems engineering company performing R&D, engineering, product development and applications of space technologies on space missions and downstream sectors.

Cooperation profile
Interest in collaborating with lead users. Technology enablers. R&D institutions. Large scale integrators.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 - 2017
Earth Observation
EO-1-2016: Downstream applications
EO-2-2016: Downstream services for public authorities
EO-3-2016: Evolution of Copernicus services
EO-1-2017: Downstream applications
EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology
COMPET-4-2016: SRC - Space Robotics Technologies
COMPET-2-2017: Competitiveness in Earth observation mission technologies
COMPET-5-2017: Space Weather

GALILEO/EGNOS
GALILEO-1-2017: EGNSS Transport applications,
GALILEO-2-2017: EGNSS mass market applications
GALILEO-3-2017: EGNSS professional applications
GALILEO-4-2017: EGNSS awareness raising and capacity building

GALILEO / EGNOS Evolution, Mission and Service related R&D activities
GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS

ENCORE
Title
Enhanced Code Galileo Receiver for Land Management in Brazil
Programme
FP7
URL

SENSYF
Title
Sentinel Synergy Framework
Programme
FP7
URL
http://www.sensyf.eu/

COREGAL
Title
GNSS-RELECTOMETRY FOR SENSING THE EARTH
Programme
H2020
URL
http://www.coregalproject.com/

E-GEM
Title
Earth Observation with GNSS Reflections
Programme
FP7
URL
http://www.e-gem.eu

CoRECYFE
Title
COASTAL WATERS RESEARCH SYNERGY FRAMEWORK
Programme
H2020
URL
http://www.mapkite.com
Edisoft S.A. - a Thales Group Company

Tiago Sepúlveda
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Aeronautics & Space Department manager

ENTITY PROFILE
Country
Portugal
Web (Url)
http://www.Edisoft.pt
Organisation type
Company (Large)
Organisation size
51-250
Organisation description
Edisoft is a company with 25 years of experience in the Defende & Security and Aeronautics & Space areas
Cooperation profile
New generation of Earth Observation services and tools

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 - 2017
Earth Observation
EO-1-2016: Downstream applications
EO-3-2016: Evolution of Copernicus services
EO-2-2017: EO Big Data Shift
Competitiveness of European Space Science and Technology
COMPET-1-2016: Technologies for European non-dependence and competitiveness
COMPET-2-2017: Competitiveness in Earth observation mission technologies
COMPET-6-2017: Space portal

GALILEO/EGNOS
GALILEO-1-2017: EGNSS Transport applications
GALILEO-2-2017: EGNSS mass market applications
GALILEO-3-2017: EGNSS professional applications
GALILEO / EGNOS Evolution, Mission and Service related R&D activities
GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS
SEABILLA
Title
Sea Border Surveillance
Programme
FP7
URL
http://www.seabilla.eu/cms/

MYOCEAN2
Title
Prototype Operational Continuity for the GMES Ocean Monitoring and Forecasting Service
Programme
FP7
URL
http://marine.copernicus.eu/

DOLPHIN
Title
Development of pre-operational services for highly innovative maritime surveillance capabilities
Programme
FP7
URL
http://www.gmes-dolphin.eu/

MARISS
Title
MARitime Security Service
Programme
ESA
URL
N/A

SEA-U
Title
Multisensor Satellite Technologies for Oil Pollution Monitoring and Source Identification
Programme
FP7
URL
http://seau.ksat.no/

EDRS
Title
European Data Relay System
Programme
ESA
URL
http://www.esa.int/Our_Activities/Telecommunications_
Integrated_Applications/EDRS
EFACEC - Engenharia e Sistemas, S.A.

João Costa Pinto
jcpinto@efacec.com
Director

ENTITY PROFILE
Country
Portugal
Web (Url)
www.efacec.com
Organisation type
Company (Large)
Organisation size
+250
Organisation description
The activity of EFACEC Electric Mobility, SA is divided in 4 segments: 1) Battery charging systems for electric vehicles, where EFACEC designs, purchases components, manufactures, tests and installs the necessary infrastructure to allow 100% electric vehicles to charge their batteries. 2) Power converters for renewable energies, where EFACEC designs, purchases components, manufactures, tests and installs power electronics converters for solar or wind farms. 3) Battery chargers and industrial uninterruptible power supplies (UPS), where EFACEC designs, purchases components, manufactures, tests and installs power electronics converters for telecommunication facilities, or power and traction rectifier substations. 4) Instruments for SPACE, where EFACEC designs, purchases components, manufactures, tests, qualifies and supports integration in satellite electronic units as well as supports the collection and processing of data from space instruments.

Cooperation profile
EFACEC develops, manufactures and tests electronics for spacecrafts.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 - 2017
Earth Observation
EO-1-2016: Downstream applications

Competitiveness of European Space Science and Technology
COMPET-3-2016-b: SRC - In-Space electrical propulsion and station keeping - Disruptive

GALILEO/EGNOS
GALILEO-4-2017: EGNSS awareness raising and capacity building

MAIN PROJECTS

EuTEMP
Title
Temperature recording unit for the ISS Columbus EuTef external platform
Programme
ESA
URL
http://www.efacec.pt/PresentationLayer/efacec_press_01.aspx?idioma=2&amp;area=1&amp;id=125

AEEF
Title
Alphasat TDP8
Programme
ESA
URL
http://www.efacec.pt/PresentationLayer/efacec_press_01.aspx?idioma=2&amp;area=1&amp;id=463

GaNSAT
Title
GaN Powered Ka band transmitter receiver
Programme
FP7
URL
http://evoleotech.com/gansat/
Eixo Digital Lda

João Fonte-Santa
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Managing Director

ENTITY PROFILE
Country
Portugal
Web (Url)
http://www.eixodigital.com
Organisation type
Company (SME)
Organisation size
1-10
Organisation description
Eixo Digital is an IT company specializing in mission-critical, high-availability, bespoke software development and big data projects in the field of: - Satellite Communications; - Telemetry and Geographical Referencing; - Maritime Safety;

Cooperation profile
Maritime Safety Solutions, Telemetry and Geographical Referencing, Earth Observation

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 - 2017
Earth Observation
EO-1-2016: Downstream applications
EO-2-2016: Downstream services for public authorities
EO-3-2016: Evolution of Copernicus services
EO-1-2017: Downstream applications
EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology
COMPET-7-2017: Technology transfer and business generators

GALILEO/EGNOS
GALILEO-1-2017: EGNSS Transport applications
GALILEO-2-2017: EGNSS mass market applications
GALILEO-3-2017: EGNSS professional applications

MAIN PROJECTS
MSDS
Title
Maritime Safety Data Services
Programe

IRIS PRECURSOR
Title
IRIS PRECURSOR SERVICE DEVELOPMENT
Programe
ESA
URL
https://artes.esa.int/projects/iris-precursor

MCEP
Title
Launching the Maritime Copernicus Enablement Platform
Programe
H2020

DTS
Title
Dynamic Telemetry Services
Programe
ESA
EVOLEO Technologies Lda

Rodolfo Martins
rodolfo.martins@evoleotech.com
General Manager

ENTITY PROFILE
Country
Portugal
Web (Url)
www.evoleotech.com
Organisation type
Company (SME)
Organisation size
26-50
Organisation description
EVOLEO designs, builds and integrates electronic embedded solutions for monitoring and data processing and integrated intelligence SW for local data pre-processing or transmitted data to a central server.
Cooperation profile
Technologies for European non-dependence and competitiveness, Maturing satellite communication technologies, Scientific instrumentation

TOPICS OF INTEREST FROM H2020 SPACE WP 2016-2017
Earth Observation
EO-1-2016: Downstream applications
EO-2-2016: Downstream services for public authorities
Competitiveness of European Space Science and Technology
COMPET-1-2016: Technologies for European non-dependence and competitiveness
COMPET-2-2016: Maturing satellite communication technologies
COMPET-5-2016: Scientific Instrumentation,
COMPET-1-2017: Technologies for European non-dependence and competitiveness
COMPET-7-2017: Technology transfer and business generators
GALILEO/EGNOS
GALILEO-1-2017: EGNSS Transport applications
GALILEO-3-2017: EGNSS professional applications

MAIN PROJECTS
GANSAT
Title
GaN Powered Ka Band high-efficiency multi-beam transceivers Satellites
Programme
FP7
URL
http://www.evoleotech.com/gansat/

PBSA
Title
Photonic Biosensor for Space Application
Programme
FP7
URL
http://www.pbsa-fp7.eu/

OPTIRAIL
Title
Development of a Smart Framework based on Knowledge to Support Infrastructure Maintenance Decisions in Railway Corridors.
Programme
FP7
URL
http://www.optirail.eu/

MAXBE
Title
Interoperable Monitoring, Diagnosis and Maintenance Strategies for Axle Bearings
Programme
FP7
URL
http://paginas.fe.up.pt/~maxbe/

IN2RAIL
Title
Innovative Intelligent Rail
Programme
H2020
URL
http://www.in2rail.eu/

TDP8 - CTTB
Title
Components Technology Test Bed
Programme
ESA
URL
http://evoleotech.com/portfolio-post/tdp8/
GMVIS Skysoft, S.A.

Teresa Ferreira
teresa.ferreira@gmv.com
Business Development Manager

ENTITY PROFILE
Country
Portugal
Web (Url)
Organisation type
Company (Large)
Organisation size
+250
Organisation description
GMV develops Galileo and Copernicus since the beginning.
Cooperation profile
R&D network, partnerships, end-users

TOPICS OF INTEREST FROM H2020 SPACE WP 2016-2017
Earth Observation
EO-1-2016: Downstream applications
EO-2-2016: Downstream services for public authorities
EO-3-2016: Evolution of Copernicus services
EO-1-2017: Downstream applications
EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology
COMPET-4-2016: SRC - Space Robotics Technologies

GALILEO/EGNOS
GALILEO-1-2017: EGNSS Transport applications
GALILEO-2-2017: EGNSS mass market applications
GALILEO-3-2017: EGNSS professional applications
GALILEO-4-2017: EGNSS awareness raising and capacity building
GALILEO / EGNOS Evolution, Mission and Service related R&D activities
GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS
ISSWINDEMO
Title
ISSWINDEMO

Programme
ESA
URL
https://artes-apps.esa.int/projects/isswind

EAGUR
Title
Test User Receiver
Programme
ESA
URL
http://www.esa.int/Our_Activities/Navigation/Galileo_receivers

NEREIDS
Title
New Service Capabilities for Integrated and Advanced Maritime Surveillance
Programme
FP7
URL
http://www.copernicus.eu/projects/nereids

LOBOS
Title
LOW time critical BOrder Surveillance
Programme
FP7
URL
http://www.copernicus.eu/projects/lobos

MYWATER
Title
Merging hydrological models and EO data for reliable information on Water
Programme
FP7
URL
http://mywater-fp7.eu/?page_id=227
HPS - High Performance Structures, Gestão e Engenharia, Lda

Celeste Pereira
pereira@hps-lda.pt
Chief Operations Officer

ENTITY PROFILE

Country
Portugal

Web (Url)
http://www.hps-lda.pt/

Organisation type
Company (SME)

Organisation size
11-25

Organisation description
HPS was established in 2007 and is currently supplying thermal insulation (MLI) sub-system within large contracts for EUCLID and ExoMARS Missions. HPS is also regular supplier of MLI for other small European missions: eRosita, Enmap, Alphasat, Sentinel 4. In parallel, HPS has developed key competences in the design and manufacturing of mechanical metallic and composite parts and large deployable structures.

Cooperation profile
HPS interests are related to the development of new competences and new technological products, as well to develop its network of partners.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation
EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology
COMPET-1-2016: Technologies for European non-dependence and competitiveness
COMPET-4-2016: SRC – Space Robotics Technologies
COMPET-1-2017: Technologies for European non-dependence and competitiveness

GALILEO/EGNOS
GALILEO-4-2017: EGNSS awareness raising and capacity building

MAIN PROJECTS

HYDRA
Title
Hybrid ablative development for re-entry in planetary atmospheric thermal protection

Programe
FP7

URL
http://www.hydra-space.eu/english/homepage

LADS
Title
Large Stable Deployable Structures for Future Science Missions

Programe
ESA

URL
http://www.hps-lda.pt/

PhWP
Title
Photonically Wired Spacecraft Panels

Programe
ESA

URL
http://www.hps-lda.pt/

EUCLID SSH MLI
Title
EUCLID Sunshield Thermal Hardware

Programe
ESA

URL
http://www.hps-lda.pt/

EUCLID PLM, SVM and NISP struts
Title
EUCLID PLM, SVM and NISP struts

Programe
ESA

URL
http://www.hps-lda.pt/

DEAM
Title
Development of an European Ablative Material

Programe
ESA

URL
http://www.hps-lda.pt/
INEGI - Institute of Science and Innovation in Mechanical and Industrial Engineering

Nuno Rocha
nrocha@inegi.up.pt
Senior Researcher

ENTITY PROFILE
Country
Portugal
Web (Url)
www.inegi.up.pt
Organisation type
Research
Organisation size
51-250
Organisation description
INEGI is an interface institution between University and Industry, oriented to the activities of Research and Development, Innovation and Technology Transfer. The Composite Materials and Structures Research Unit (UMEC) is one of the key units of INEGI. It has gathered long theoretical and practical experience in: Filament Winding, Pultrusion, RTM/LCM, Autoclave, Weaved and unidirectional Prepregs, Braiding, Preforming Technologies, New Materials Development and Characterization, Structural Health Monitoring (SHM) and Finite Elements (FEM) Modelling. At the international cooperation level, INEGI has been involved in R&D projects commissioned by private and state owned companies, public services and European programs. The European Aerospace Industry is the main client of INEGI’s R&D services and the main partner in R&D projects.

Cooperation profile
UMEC has been involved in several Space-related projects mainly in the area of composite materials development (including the preparation of multifunctional composites, nanomaterials-based composites, and Space qualified prepreg systems), composite manufacturing processes development (including filament winding, pre-impregnation, and resin transfer moulding (RTM) and the associated tools and process design), and on the testing of composite-based structures under Space relevant conditions. UMEC is interested in collaborations that aim at developing of innovative concepts where composites can play an important role (structural and thermal performance at low weight), systems design based on composite materials concepts, and collaboration with final integrator/end-users that required the development of composites at materials or process level.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017
Earth Observation
EO-2-2017: EO Big Data Shift
Competitiveness of European Space Science and Technology
COMPET-1-2016: Technologies for European non-dependence and competitiveness
COMPET-2-2016: Maturing satellite communication technologies
COMPET-4-2016: SRC - Space Robotics Technologies
COMPET-1-2017: Technologies for European non-dependence and competitiveness
COMPET-7-2017: Technology transfer and business generators
GALILEO/EGNOS
GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS
EUROPEAN SPACE QUALIFIED CARBON FIBRES AND PRE-IMPREGNATED BASED MATERIALS

**EUCARBON**
Title
European Space Qualified Carbon Fibres and Pre-Impregnated Based Materials
Programme
FP7
URL
http://www.eucarbon-project.eu

**KuDGR**
Title
Dual-Gridded Carbon Fibre Reinforced Plastic Reflector

**RTM E-BOX**
Title
Thermally Conductive CFRP Eletronic Boxes by Resin Transfer Moulding Manufacturing
Programme
ESA

**CarbonMap**
Title
Mapping of European Carbon Fibre Reinforces Polymer technology market
Programme
ESA

**NEXA**
Title
Non-Explosive Actuators for Hold Down and Release Mechanisms
Programme
ESA
LADS
Title
Large Deployable Structures
Programme
ESA
Institute of Telecommunications

Pedro Cruz
pcruz@av.it.pt
Postdoc Researcher

ENTITY PROFILE
Country
Portugal
Web (Url)
www.it.pt
Organisation type
Research
Organisation size
+250
Organisation description
Instituto de Telecomunicações (IT) is a private, not-for-profit organization, of public interest, a partnership of five institutions with experience and traditions in research and development in the field of Telecommunications: Instituto Superior Técnico (IST); Universidade de Aveiro (UA); Faculdade de Ciências e Tecnologia da Universidade de Coimbra (FCTUC); Portugal Telecom Inovação, S.A. (PTIn); and Siemens, S.A. Its main mission is to create and disseminate scientific knowledge in the field of telecommunications by being actively involved in fundamental and applied research in telecommunications, both at national and international level. Simultaneously it is committed to foster higher education and training, by hosting and tutoring graduate and postgraduate students. It is organized around three sites: one in Aveiro, in the University Campus, another in Coimbra, and the third one in Lisbon at IST. Its main scientific expertise, spans through Wireless Communications, Optical Communications, Networks and Multimedia and the horizontal area of Basic Sciences and Enabling Technologies.

Cooperation profile
IT is able to collaborate in several fields of space and satellite technology, with more emphasis on technology development for non-dependence (GaN-based hardware parts for example) and in RF and optical communications for satellite applications.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 - 2017

Earth Observation
EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology
COMPET-1-2016: Technologies for European non-dependence and competitiveness
COMPET-2-2016: Maturing satellite communication technologies
COMPET-1-2017: Technologies for European non-dependence and competitiveness
COMPET-2-2017: Competitiveness in Earth observation mission technologies
COMPET-3-2017: High speed data chain
GALILEO/EGNOS
GALILEO-1-2017: EGNSS Transport applications

MAIN PROJECTS
GANSAT
Title
GaN-powered Ka-band high-efficiency multi-beam transceivers for satellites
Programe
FP7
URL
http://www.gansat.eu/

WIPE
Title
Wireless Power Transmission for Sustainable Electronics
Programe
COST
URL
http://www.cost-ic1301.org/

BEACON
Title
Scalable & Low-Power Microwave Photonics for Flexible, Terabit Telecom Payloads & High-speed Coherent Inter-satellite Links
Programe
FP7
URL
http://www.space-beacon.eu/

Alphabus/Alphasat
Title
TDP 8 for Alphasat (GaN-based oscillator development)
Programe
ESA
URL
http://www.esa.int/Our_Activities/Telecommunications_Integrated_Applications/Alphasat/Environmental_Testing_Radiation_Sensor

DAAA
Title
Drone Active Antenna Array - Feasibility Study
Programe
ESA
URL
http://ptti.ipn.pt
Instituto Pedro Nunes

Inês Plácido
iplacido@ipn.pt
Innovation Manager

ENTITY PROFILE

Country
Portugal

Web (Url)
www.ipn.pt

Organisation type
Research

Organisation size
51-250

Organisation description
Instituto Pedro Nunes (IPN) is a private non-profit organisation that promotes innovation and the transfer of technology, establishing the connection between the scientific and technological environment and the production sector. To leverage a strong university-industry relationship for the promotion of innovation, rigour, quality and entrepreneurship in private and public sector organisations, IPN acts in three complementary areas: Research and technological development, consultancy and specialised services; Incubation and acceleration of businesses and ideas; Highly specialised training and promotion of science and technology.

Cooperation profile
Considering the scope of IPN’s activities in the space domain, developed with ESA, IPN envisions its participation mostly in Coordination and Support Actions (CSAs) aiming at turning space-related business ideas into sustainable commercial endeavours, impacting the Portuguese and European economy and employment, namely in the frame of our R&D, technology transfer, incubation and acceleration activities. These activities may include support to technology transfer, business modelling, marketing and market approach, intellectual property management, business development, networking with users and potential clients, pitching, internationalization and exposure to investment.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016-2017
Earth Observation
EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology
COMPET-7-2017: Technology transfer and business generators

GALILEO/EGNOS
GALILEO-4-2017: EGNSS awareness raising and capacity building

MAIN PROJECTS

ESA BIC Portugal
Title
ESA Business Incubation Centre in Portugal
Programe
ESA
URL
http://www.space.ipn.pt

AP Portugal
Title
ESA Ambassador Platform for ARTES Applications promotion in Portugal
Programe
ESA
URL
https://artes-apps.esa.int/ambassador-platforms/apportugal

ESA TT Broker
Title
ESA Technology Transfer Broker in Portugal
Programe
ESA
URL
http://www.esa.tec.eu/instituto-pedro-nunes/

PTTI
Title
National Technology Transfer Initiative in Portugal
Programe
ESA
URL
http://www.ptti.ipn.pt
Ramiro Neves
ramiro.neves@tecnico.ulisboa.pt
Associate Professor

ENTITY PROFILE
Country
Portugal
Web (Url)
www.maretec.org
Organisation type
University
Organisation size
+250
Organisation description
Instituto Superior Técnico is the Engineering School of the Lisboa University
Cooperation profile
I am a downstream intermediate user. My main interest is to use Space data as input for mathematical models or as validation data.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 - 2017
Earth Observation
EO-1-2016: Downstream applications
EO-2-2016: Downstream services for public authorities
EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology
COMPET-2-2017: Competitiveness in Earth observation mission technologies
COMPET-4-2017: Scientific data exploitation
COMPET-7-2017: Technology transfer and business generators

GALILEO/EGNOS
GALILEO-3-2017: EGNSS professional applications

MAIN PROJECTS
Mywater
Title
Mergin Hydrological models and EO data for reliable information on water training purposes, using GNSS receivers, wearable sensors and Earth Observation information
Programe
FP7
URL
http://www.mywater-fp7.eu/

Asimuth
Title
Applied Simulations and Integrated Modelling for the Understanding of Toxic and Harmful Algal Blooms
Programe
FP7
URL
http://www.asimuth.eu

SenSyf
Title
Synergy Framework for Sentinel Data
Programe
FP7
URL
http://www.sensyf.eu/
Paulo Pedra
paulopedra@kemet.com
KEMET Electronics Portugal Board Member

KEMET ELECTRONICS PORTUGAL, SA

11 NOVEMBER 2015
PORTUGAL SPACE DAY 2015
INFORMATION & NETWORKING EVENT

KEMET S.A.

ENTITY PROFILE

Country
Portugal

Web (Url)
http://www.kemet.com/

Organisation type
Company (Large)

Organisation size
51-250

Organisation description
KEMET Electronics Portugal, SA was officially formed in 12th February 1997 in Évora, Portugal. The company produces Tantalum Capacitors Surface Mounted Devices with MnO2 and Polymer counter-electrodes and more recently Aluminum Electrolytic capacitors. Strategically, KEMET Electronics Portugal SA, wants to be the footprint baseline for the Military/Space and Medical segments grows in Europe for KEMET Corporation group. Following the market trend and latest technology innovations, ESA and KEMET have started on 1st March 2012 a project to development Ta SMD polymer technology counter electrode up to 50V rated voltage.

Cooperation profile
Learn and improve Capacitors capability to meet space conditions and with so support the electronic companies to build application and systems

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 - 2017

Earth Observation
EO-3-2016: Evolution of Copernicus services
EO-1-2017: Downstream applications
EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology
COMPET-1-2016: Technologies for European non-dependence and competitiveness
COMPET-2-2016: Maturing satellite communication technologies
COMPET-3-2016-b: SRC - In-Space electrical propulsion and station keeping – Disruptive

MAIN PROJECTS

GSTP
Title
General Support Technology Programme Period 5 - Element 1
Programme
ESA

COMPET-4-2016: SRC - Space Robotics Technologies
COMPET-5-2016: Scientific Instrumentation
COMPET-1-2017: Technologies for European non-dependence and competitiveness
COMPET-2-2017: Competitiveness in Earth observation mission technologies
COMPET-3-2017: High speed data chain
COMPET-4-2017: Scientific data exploitation
COMPET-7-2017: Technology transfer and business generators

GALILEO/EGNOS
GALILEO-1-2017: EGNSS Transport applications
GALILEO-2-2017: EGNSS mass market applications
GALILEO-3-2017: EGNSS professional applications
GALILEO-4-2017: EGNSS awareness raising and capacity building
GALILEO / EGNOS Evolution, Mission and Service related R&D activities
GNSS Evolution, infrastructure-related R&D activities
Patrícia Gonçalves
patricia@lip.pt
Researcher - Coordinator for Space Activities at LIP

ENTITY PROFILE
Country
Portugal
Web (Url)
http://www.lip.pt
Organisation type
Research
Organisation size
51-250
Organisation description
LIP is a scientific and technical association of public utility for research in the fields of experimental high energy physics and associated instrumentation. LIP's research domains also encompass astroparticle physics, radiation detection instrumentation, data acquisition and processing, advanced computing and applications to Medical Physics and Space. LIP is an Associated Laboratory with units in Coimbra, Lisboa and Minho, where it has specific agreements with the Universities for the sharing of resources.

Cooperation profile
1. Space Radiation Environment: Radiation environment simulations with the Geant4 simulation toolkit: in space, in-orbit, on planetary atmospheres, surfaces and underground.
2. Radiation Effects in Components: modelling of SEE in EEE components in space; EEE component testing (ground/space), Radiation Hardness Assurance.
3. Human spaceflight: simulation of the radiation environment in manned missions (Moon, Mars); prediction of radiation hazards and assessment of mitigation strategies.
4. Radiation Monitors: Detector design and optimization through dedicated Geant4 simulations of detector response for mission specific cases, detector calibration and data analysis.
5. Astrophysics Instrumentation (LIP-Coimbra) X and gamma-ray detectors for space: testing and development Semiconductor Detectors (CdTe) and Gas filled detectors for spectrometry, imaging and polarimetry; mass model simulation tools (Geant4 and MGGPOD).
6. Advanced Computing including Infrastructures

TOPICS OF INTEREST FROM H2020 SPACE WP 2016-2017
Earth Observation
EO-1-2016: Downstream applications
EO-1-2017: Downstream applications
EO-2-2017: EO Big Data Shift
Competitiveness of European Space Science and Technology
COMPET-1-2016: Technologies for European non-dependence and competitiveness
COMPET-5-2016: Scientific Instrumentation
COMPET-1-2017: Technologies for European non-dependence and competitiveness
COMPET-2-2017: Competitiveness in Earth observation mission technologies
COMPET-4-2017: Scientific data exploitation,
COMPET-5-2017: Space Weather
COMPET-7-2017: Technology transfer and business generators
GALILEO/EGNOS
GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS
MarsREM
Title
“MarsREM - the Martian Radiation Environment Models”
Programme
ESA
CODES
Title
INTEGRATED RADIATION ENVIRONMENT, EFFECTS AND COMPONENT DEGRADATION SIMULATION TOOL
Programme
ESA
AlphaSat CTTB - Preparation
Title
AEEF CTTB, Preparation of In-Flight Data Analysis
Programme
ESA
Omnidea Lda

Rei Fernandes
rei.fernandes@omnidea.net
Chief Administrative Officer

ENTITY PROFILE
Country
Portugal
Web (Url)
http://www.omnidea.net

Organisation type
Company (SME)

Organisation size
11-25

Organisation description
Omnidea is a R&D leading SME in the fields of Space propulsion; Atmospheric Platforms; Energy Storage; Power Electronics and Instrumentation. Space related products include a portfolio of propulsion components with Space heritage and qualification such as valves, pressure regulators, transition joints, etc. and others in development such as aluminium liners for COPV. Omnidea has been both Prime contractor and subcontractor on several ESA activities and also both coordinator and partner in FP7 projects.

Cooperation profile
Earth Observation from Atmospheric Platforms

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017
Earth Observation
EO-1-2016: Downstream applications
EO-2-2016: Downstream services for public authorities
EO-3-2016: Evolution of Copernicus services
EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology
COMPET-1-2016: Technologies for European non-dependence and competitiveness
COMPET-2-2016: Maturing satellite communication technologies
COMPET-1-2017: Technologies for European non-dependence and competitiveness
COMPET-2-2017: Competitiveness in Earth observation mission technologies

GALILEO/EGNOS
GALILEO-1-2017: EGNSS Transport applications
GALILEO-2-2017: EGNSS mass market applications

MAIN PROJECTS

HAWE
Title
High Altitude Wind Energy
Programme
FP7
URL
http://www.omnidea.net/hawe/
Portuguese Institute for Ocean and Atmosphere

Isabel Trigo
isabel.trigo@ipma.pt
Coordinator of IPMA’s Remote Sensing Group

ENTITY PROFILE
Country
Portugal
Web (Url)
http://www.ipma.pt
Organisation type
Research
Organisation size
+250
Organisation description
National Service for Meteorology and the Ocean. Carries out research and provides services in Meteorology, Climate, Seismology and Oceanography
Cooperation profile
IPMA develops satellite applications (algorithm & product design) and operates satellite ground segments.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 - 2017
Earth Observation
EO-2-2016: Downstream services for public authorities
EO-3-2016: Evolution of Copernicus services
EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology
COMPET-3-2017: High speed data chain
COMPET-4-2017: Scientific data exploitation

GALILEO/EGNOS
GALILEO / EGNOS Evolution, Mission and Service related R&D activities

MAIN PROJECTS
Geoland2
Title
Towards an Operational GMES Land Monitoring Core Service
Programme
FP7
URL
http://www.copernicus.eu/projects/geoland2

MACC-II
Title
Monitoring Atmospheric Composition and Climate
Programme
FP7
URL
https://www.gmes-atmosphere.eu/

MACC-III
Title
Monitoring Atmospheric Composition and Climate
Programme
H2020
URL
https://www.gmes-atmosphere.eu/

WACMOS-ET
Title
WAter Cycle Observation Multi-mission Strategy - EvapoTranspiration
Programme
ESA
URL
http://wacmoset.estellus.eu/

GlobTemperature
Title
ESA DUE Initiative GlobTemperature
Programme
ESA
URL
http://www.globtemperature.info/

LSA SAF
Title
Satellite Applications Facility on Land Surface Analysis
Programme
EUMETSAT
URL
http://landsaf.ipma.pt/
Spin.Works S.A.

Tiago Hormigo  
tiago.hormigo@spinworks.pt  
Head of Space Business Development

Entity Profile

Country  
Portugal

Web (Url)  
http://www.spinworks.pt

Organisation type  
Company (SME)

Organisation size  
11-25

Organisation description
Spin.Works is an aerospace company dedicated to the development and manufacturing of aerostructures and unmanned systems for the Aeronautics, Space and Defence markets, taking advantage of its multi-disciplinary competences, as an integrator for complete systems and products. Mission: Create, develop and deploy innovative, multi-disciplinary and cost-effective solutions, in the areas of structures, mechanisms, guidance navigation & control (GNC) systems, simulation, remote detection systems, unmanned aerial vehicles (UAVs) and space exploration missions. Vision: Become a system integrator and reference player in the emerging unmanned aerial vehicles and personal aircraft markets, and lead the future of aerospace transport.

Cooperation profile
The main areas for cooperation are:
Multisensor data fusion for hazard detection and avoidance in planetary/small body landing missions - Image Processing, Navigation and Registration for Earth Observation (EO) and Planetary Missions - Attitude and Orbit Control Subsystem (AOCS) design for EO and Planetary Missions  
Multi-mission Image Processing Avionics

Topics of Interest from H2020 Space WP 2016-2017

Earth Observation
EO-1-2016: Downstream applications  
EO-2-2016: Downstream services for public authorities  
EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology
COMPET-1-2016: Technologies for European non-dependence and competitiveness  
COMPET-4-2016: SRC - Space Robotics Technologies  
COMPET-5-2016: Scientific Instrumentation  
COMPET-1-2017: Technologies for European non-dependence and competitiveness  
COMPET-5-2017: Space Weather

GALILEO/EGNOS
GALILEO / EGNOS Evolution, Mission and Service related R&D activities

MAIN PROJECTS

FUSION
Title
Sensor Data Fusion for Hazard Mapping and Piloting
Programme  
ESA

URL

StarTiger Dropter
Title
StarTiger: Terrestrial Dropship Demonstrator
Programme  
ESA

URL
http://www.esa.int/Our_Activities/Space_Engineering_Technology/Dropship_offers_safe_landings_for_Mars_rovers

AIM Phase A/B1
Title
Asteroid Impact Mission - Phase A/B1
Programme  
ESA

URL
http://www.esa.int/Our_Activities/Space_Engineering_Technology/Asteroid_Impact_Mission/Design_begins_for_ESA_s_Asteroid_Impact_Mission

AINGEO
Title
AOCS and Image Navigation and Registration for Geostationary Earth Observation
Programme  
ESA
TEKEVER S.A.

André Oliveira
andre.oliveira@tekever.com
Business Development Manager

ENTITY PROFILE
Country
Portugal
Web (Url)
http://www.tekever.com
Organisation type
Company (SME)
Organisation size
51-250
Organisation description
TEKEVER Space’s technology development strategy is focused on taking advanced, deployed and tested terrestrial technologies and spinning them into the Space market to create products with a high degree of innovation and a high return on investment. TEKEVER focuses on the development and space-validation of products in communications, navigation and positioning subsystems as well as the development of nano-satellite platforms. TEKEVER has been involved in the design, development and qualification of two CubeSats. In the communications and navigation field, we developed GAMALINK, a multifunctional Software-defined Radio (SDR) communications and networking platform, providing Ground and Inter-Satellite Links and supporting GNSS-based position determination, RF-based attitude determination and ranging between satellites. This platform is optimised for the small satellite market, compatible with the CubeSat standard and supports the challenges of emerging mission concepts involving multiple spacecraft. GAMALINK had its maiden flight on-board the Chinese TW-1 mission, launched in September 2015, and will be launched in several CubeSats as part of the QB50 mission, in 2016. TEKEVER is also involved in the ESA PROBA-3 mission, providing the Inter-Satellite Link critical subsystem, based on GAMALINK technology, for the validation of formation flying technologies. The TEKEVER Group has been involved in more than 15 FP7 projects including 2 Space projects (coordinated by TEKEVER) and 2 ongoing H2020 and 1 CS2 projects (one in Space, coordinated by TEKEVER).

Cooperation profile
TEKEVER is interested in meeting and discussing ideas and cooperation opportunities with LSI, academia and satellite owners concerning the evolution of small satellite communication solutions including ISL, cognitive radios and ad-hoc networks in space. The domain of fractionated spacecraft and the field of space robotics are also of great interest for us.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017
Earth Observation
EO-1-2016: Downstream applications
Competitiveness of European Space Science and Technology
COMPET-1-2016: Technologies for European non-dependence and competitiveness
COMPET-2-2016: Maturing satellite communication technologies
COMPET-4-2016: SRC – Space Robotics Technologies
COMPET-1-2017: Technologies for European non-dependence and competitiveness
COMPET-3-2017: High speed data chain
GALILEO/EGNOS
GALILEO-1-2017: EGNSS Transport applications

MAIN PROJECTS
GAMALINK
Title
Generic SDR-based Multifunctional Space LINK
Programme
FP7
URL
http://gamalink.eu
PROBA-3
Title
TEKEVER supplies the ISL for ESA’s first formation flying mission
Programme
ESA
URL
http://www.esa.int/Our_Activities/Space_Engineering_Technology/Proba_Missions/About_Proba-3
SWIPE
Title
Space Wireless sensor networks for Planetary Exploration
Programme
FP7
URL
http://swipe.tekever.com
SCREEN
Title
Space Cognitive Radio for Electromagnetic Environment management
Programme
H2020
URL
http://www.screen-h2020.com

RAPSODY
Title
Remote Airborne Platform with Satellite Oversight
Dependency
Programme
ESA
URL
http://tekevernews.blogspot.pt/2014/12/pioneering-tekever-unmanned-system.html
UNINOVA-CA3

António Falcão
ajf@uninova.pt
Research Engineer

ENTITY PROFILE
Country
Portugal
Web (Url)
www.ca3-uninova.org
Organisation type
Research
Organisation size
26–50
Organisation description
UNINOVA is a multidisciplinary, autonomous and non-profit research institute located near Lisbon, Portugal. The CA3 - Computational Intelligence Research Group has been working with ESA since 2001, providing solutions in computational intelligence concepts and technologies applied to the Space domain. With an extensive portfolio of projects in cooperation with most ESA establishments (ECSAT, ESAC, ESOC, ESRIN and ESTEC), our research projects encompass various areas and have always been aimed as “operational prototypes”: ground-breaking innovation, aimed at operational environments in the space sector. We have created solutions for innovative monitoring and early warning, decision support systems, data fusion and dynamic multi-criteria decision making, intelligent image processing, and very large dataset exploration (visual analytics).

Cooperation profile
Our expertise has been applied to several areas within the space sector, and therefore we are open to cooperation in several topics and welcome challenges where our know-how can contribute to innovative solutions.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 - 2017
Earth Observation
EO-2-2017: EO Big Data Shift
Competitiveness of European Space Science and Technology
COMPET-4-2016: SRC - Space Robotics Technologies
COMPET-4-2017: Scientific data exploitation
COMPET-5-2017: Space Weather
COMPET-7-2017: Technology transfer and business generators
GALILEO/EGNOS
GALILEO / EGNOS Evolution, Mission and Service related R&D activities

MAIN PROJECTS

IPSIS
Title
Intelligent Planetary Site Selection
Programme
ESA
URL
http://www.ca3-uninova.org/project_ipsis

IVELA
Title
Interactive Visualization Environment for Large Archives
Programme
ESA
URL
http://www.ca3-uninova.org/project_ivela

GEAF
Title
EO Ground Segment Elements Automation Feasibility
Programme
ESA
URL
http://www.ca3-uninova.org/project_geaf

MODI
Title
Monitoring and Diagnosis for ExoMars Drill
Programme
ESA
URL
http://www.ca3-uninova.org/project_modi

SEIS
Title
Space Environment Information System
Programme
ESA
URL
http://www.ca3-uninova.org/project_seis

VA-4D
Title
Visual Analysis of 4-Dimensional Fields, Processes & Dynamics
Programme
ESA
URL
http://www.ca3-uninova.org/project_va4d