



Adrià Rovira Garcia

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**Adrià Rovira Garcia**

Surname(s): **Rovira Garcia**
 Name: **Adrià**
 DNI: **47661036E**
 Date of birth: **18/12/1986**
 Gender: **Male**
 Nationality: **Spain**
 Country of birth: **Spain**
 Aut. region/reg. of birth: **Catalonia**
 Contact province: **Barcelona**
 City of birth: **Esplugues de Llobregat**
 Contact address: **Jordi Girona 1-3**
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 Contact country: **Spain**
 Contact aut. region/reg.: **Catalonia**
 Contact city: **Barcelona**
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Current professional situation

Employing entity: Universitat Politècnica de Catalunya
Type of entity: University
Professional category: Post-Doctoral Researcher
Educational Management (Yes/No): Yes
City employing entity: Barcelona, Spain
Phone: (0034) 93 4010958
Start date: 18/02/2016
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 250403 - Geodetic navigation; 250407 - Satellite geodesy
Secondary (UNESCO code): 332505 - Radiocommunications; 332506 - Satellite communications
Performed tasks: Teaching and Research Staff

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universitat Politècnica de Catalunya	Doctoral student - Contract Based	18/02/2013
2	Universitat Politècnica de Catalunya	Research Assistant - Contract Based	28/03/2011
3	Universitat Politècnica de Catalunya	Research Assistant - Contract Based	28/09/2010
4	Universitat Politècnica de Catalunya	Auxiliary Researcher - Grant Holder	01/09/2009
5	Universitat Politècnica de Catalunya	Auxiliary Researcher - External Collaborator	03/03/2009



- 1** **Employing entity:** Universitat Politècnica de Catalunya
Professional category: Doctoral student - Contract Based
Phone: 003493 4015944
Start-End date: 18/02/2013 - 17/02/2016
Type of contract: Temporary employment contract
Dedication regime: Full time
Type of entity: University
Educational Management (Yes/No): No
Duration: 3 years
- 2** **Employing entity:** Universitat Politècnica de Catalunya
Department: Department of Applied Mathematics IV
Professional category: Research Assistant - Contract Based
Start-End date: 28/03/2011 - 17/02/2013
Type of contract: Temporary employment contract
Dedication regime: Part time
Performed tasks: Research support specialist
Type of entity: University
Educational Management (Yes/No): No
Duration: 1 year - 2 months - 4 days
- 3** **Employing entity:** Universitat Politècnica de Catalunya
Department: Department of Applied Mathematics IV
City employing entity: Barcelona,
Professional category: Research Assistant - Contract Based
Phone: 93 4015944
Start-End date: 28/09/2010 - 27/03/2011
Type of contract: Temporary employment contract
Dedication regime: Part time
Performed tasks: Research support specialist
Type of entity: University
Educational Management (Yes/No): No
Duration: 2 years - 4 months - 21 days
- 4** **Employing entity:** Universitat Politècnica de Catalunya
Department: Department of Applied Mathematics IV
Professional category: Auxiliary Researcher - Grant Holder
Start-End date: 01/09/2009 - 31/07/2010
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Performed tasks: Colaboración en Departamentos Universitarios
Type of entity: University
Educational Management (Yes/No): No
Duration: 11 months
- 5** **Employing entity:** Universitat Politècnica de Catalunya
Department: Department of Applied Mathematics IV
Professional category: Auxiliary Researcher - External Collaborator
Start-End date: 03/03/2009 - 31/08/2009
Type of contract: Collaboration Order
Dedication regime: Full time
Performed tasks: Auxiliary Researcher
Type of entity: University
Educational Management (Yes/No): No
Duration: 3 months



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: Ingeniero Aeronáutico

Degree awarding entity: Universitat Politècnica de Catalunya **Type of entity:** University

Date of qualification: 31/03/2010

Doctorates

Doctorate programme: Ciència i Tecnologia Aeroespacial

Degree awarding entity: Universitat Politècnica de Catalunya **Type of entity:** University

City degree awarding entity: Barcelona, Spain

Date of degree: 21/01/2016

Date of certificate: 04/02/2016

Thesis title: Consolidation and Assessment of a technique to provide Fast and Precise Point Positioning (Fast-PPP)

Obtained qualification: Excellent Cum Laude

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

1 Training title: JRC Summer School on GNSS Core Technologies

City awarding entity: Ispra, Italy

Awarding entity: Joint Research Centre - European Commission **Type of entity:** R&D Centre

End date: 04/07/2012

Duration in hours: 3 days

2 Type of training: Course

Training title: ESA Summer School on GNSS

City awarding entity: Berchtesgaden, Germany

Awarding entity: European Space Agency

End date: 30/07/2011

Type of entity: R&D Centre

Duration in hours: 11 days



Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

- 1** **Title of course/seminar:** Scientific Writing Skills/Tècniques d'escriptura científica
City organizing entity: Barcelona, Spain
Organising entity: Institute of Education Sciences **Type of entity:** University Research Institute
End date: 17/11/2014
- 2** **Title of course/seminar:** Jornada: IV Dia d'ATENEA
City organizing entity: Barcelona, Spain
Organising entity: Institute of Education Sciences **Type of entity:** University Research Institute
End date: 15/06/2012

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
German		B1	B1	B1	B1
English		C1	C1	C1	C1

Teaching experience

General teaching experience

Type of teaching: Official teaching
Name of the course: Radio Navigation
Type of programme: Master's degree
Type of subject: Optional
University degree: Master of Aerospace Science and Technology
Course given: 1 (Second Semester)
Start date: 01/02/2016 **End date:** 31/07/2016
End date: 31/07/2016 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 6,25
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Faculty, institute or centre: Castelldefels School of Telecommunications and Aerospace Engineering (EETAC)
Subject language: English

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** gLAB Upgrade with EGNOS data processing
Type of project: End of course project
Co-director of thesis: Jose Miguel Juan Zornoza
Student: Ibañez Segura, Deimos
Obtained qualification: Excellent
Date of reading: 06/06/2016



- 2** **Project title:** Design and implementation of a cycle-slip detector for multi-frequency GNSS signals
Type of project: Master Thesis
Co-director of thesis: Jaime Sanz Subirana
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
City of entity: BARCELONA, Catalonia, Spain
Student: Jesús Romero Sánchez
Obtained qualification: Matrícula d'Honor
Date of reading: 16/03/2016
- 3** **Project title:** Implementation of GNSS ionospheric models in gLAB
Type of project: End of course project
Co-director of thesis: Jaume Sanz Subirana
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Marcos - Deimos Ibañez Segura
Date of reading: 11/12/2014
- 4** **Project title:** Master Thesis on Orbit Ephemeris Monitor for GBAS Cat-I aircraft Precision Approach operations
Co-director of thesis: Jaume Sanz Subirana
Entity: Escuela Politécnica Superior de Castelldefels **Type of entity:** University Centres and Structures and Associated Bodies
Student: Laura Samsó Pericón
Date of reading: 31/10/2012

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Analisis de las condiciones ionosfericas a partir de las medidas GNSS
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: FÍSICA
Name principal investigator (PI, Co-PI...): Jose Miguel Juan Zornoza
Nº of researchers: 6
Funding entity or bodies:
MIN DE ECONOMIA Y COMPETITIVIDAD **Type of entity:** Ministerio
Code according to the funding entity: CGL2015-66410-P
Start date: 01/01/2016 **Duration:** 3 years
Total amount: 59.290
- 2** **Name of the project:** Improved Modelling of Short and Long Term Characteristics of Ionospheric Disturbances
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Department of Applied Mathematics IV



City of entity: Barcelona,

Name principal investigator (PI, Co-PI....): Jose Miguel Juan Zornoza

Nº of researchers: 1

Funding entity or bodies:

European Space Agency

Type of entity: R&D Centre

Start date: 01/12/2015

Duration: 1 year - 1 month

Total amount: 200.000

3 Name of the project: BUILDING EUROPEAN LINKS TOWARD SOUTH EAST ASIA IN THE FIELD OF GNSS

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: MATEMÀTIQUES

Name principal investigator (PI, Co-PI....): Jaime Sanz Subirana

Nº of researchers: 6

Funding entity or bodies:

Commission of European Communities

Type of entity: Commission of European Communities

Code according to the funding entity: H2020-636853-BELS

Start date: 01/06/2015

Duration: 3 years

Total amount: 169.156

4 Name of the project: E-GNSS KNOWLEDGE TRIANGLE

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: Department of Applied Mathematics IV

City of entity: Barcelona,

Name principal investigator (PI, Co-PI....): Jaime Sanz Subirana

Nº of researchers: 1

Funding entity or bodies:

Commission of European Communities

Type of entity: Commission of European Communities

Start date: 01/01/2015

Duration: 3 years

Total amount: 114.062,5

5 Name of the project: Grup d'astronomia i geomàtica

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Department of Applied Mathematics IV

City of entity: Barcelona,

Name principal investigator (PI, Co-PI....): Jaime Sanz Subirana

Nº of researchers: 1

Funding entity or bodies:

AGAUR. Agència de Gestió d'Ajuts Universitaris i de Recerca

Type of entity: Public Research Body

Start date: 01/01/2014

Duration: 3 years

Total amount: 20.000



- 6** **Name of the project:** Assessing the capabilities of the life-Galielo signals to support centimetre level absolute positioning accuracy.
Geographical area: Non EU International
Degree of contribution: Researcher
Entity where project took place: Department of Applied Mathematics IV
City of entity: Barcelona,
Name principal investigator (PI, Co-PI....): Jaime Sanz Subirana
Nº of researchers: 2
Funding entity or bodies:
European Space Agency **Type of entity:** R&D Centre
Start date: 10/05/2012 **Duration:** 2 years - 7 months - 22 days
Total amount: 45.000
- 7** **Name of the project:** FP7-287203-G-NAVIS - GROWING NAVIS
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Instituto Superiore Mario Boella
City of entity: Turin, Italy
Name principal investigator (PI, Co-PI....): Jose Miguel Juan Zornoza
Nº of researchers: 0
Funding entity or bodies:
European Commission **Type of entity:** Govern CEE
Start date: 15/03/2012 **Duration:** 2 years - 6 months - 1 day
Total amount: 130.000
- 8** **Name of the project:** GNSS Processing Book Edition into NAVIPEDIA & gLAB Tool Website Development
Geographical area: European Union
Degree of contribution: Researcher
Entity where project took place: GAGE - Research group of Astronomy and Geomatics
Name principal investigator (PI, Co-PI....): Jaime Sanz Subirana; Jose Miguel Juan Zornoza
Nº of researchers: 1
Funding entity or bodies:
European Space Agency **Type of entity:** R&D Centre
Start date: 02/01/2012 **Duration:** 2 months - 1 day
Total amount: 15.000
- 9** **Name of the project:** MONITORIZADO Y ANALISIS DE LAS CARACTERISTICAS GEOMAGNETICAS Y IONOSFERICAS EN ASJI. MODELADO IONOSFERICO
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Department of Applied Mathematics IV
City of entity: Barcelona,
Name principal investigator (PI, Co-PI....): Jaime Sanz Subirana
Nº of researchers: 9
Funding entity or bodies:
Ministerio de Ciencia e Innovación (MICINN) **Type of entity:** Ministerio
Start date: 01/01/2011 **Duration:** 3 years - 6 months
Total amount: 68.970



- 10** **Name of the project:** Cenit 2010: prometeo. Tecnologías para el combate integral de incendios forestales
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Department of Applied Mathematics IV
City of entity: Barcelona,
Name principal investigator (PI, Co-PI....): Jaime Sanz Subirana
Nº of researchers: 3
Funding entity or bodies:
 INDRA ESPACIO,S.A. **Type of entity:** Business
Start date: 25/05/2010 **Duration:** 4 years
Total amount: 460.000
- 11** **Name of the project:** Grup d'Astronomia i Geomatica
Geographical area: Regional
Degree of contribution: Researcher
Entity where project took place: Department of Applied Mathematics IV
City of entity: Barcelona,
Name principal investigator (PI, Co-PI....): Jaime Sanz Subirana
Nº of researchers: 7
Funding entity or bodies:
 AGAUR. Agència de Gestió d'Ajuts Universitaris i de Recerca **Type of entity:** Public Research Body
Start date: 21/07/2009 **Duration:** 4 years - 9 months - 10 days
Total amount: 66.560
- 12** **Name of the project:** ESA EDUCATION GNSS EDUCATION TOOL
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: GAGE - Research group of Astronomy and Geomatics
Name principal investigator (PI, Co-PI....): Jaime Sanz Subirana; Manuel Hernandez Pajares; Jose Miguel Juan Zornoza
Nº of researchers: 1
Funding entity or bodies:
 European Space Agency **Type of entity:** R&D Centre
Start date: 01/01/2009 **Duration:** 1 year - 11 months
Total amount: 40.000

R&D non-competitive contracts, agreements or projects with public or private entities

Name of the project: PLD/EUR/EDCN/2008/CA/001 - EGNOS Data Collection and Analysis Network
Entity where project took place: Department of Applied Mathematics IV
City of entity: Barcelona,
Name principal investigator (PI, Co-PI....): Jaime Sanz Subirana
Nº of researchers: 3
Participating entity/entities: Pildo Labs (Coordinator), gAGE/UPC, MGP Delf (The Netherlands), IDMEC
Funding entity or bodies:
 Eurocontrol **Type of entity:** Altres
Start date: 30/09/2008 **Duration:** 1 year - 6 months - 1 day



Total amount: 66.480

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Rovira-Garcia, Adrià.; Juan, J.; Sanz, J.; Gonzalez-Casado, G.; Ibañez, D. Accuracy of ionospheric models used in GNSS and SBAS: methodology and analysis. *Journal of geodesy*. 90, pp. 229 - 240. 01/03/2016. Available on-line at: <<http://dx.doi.org/10.1007/s00190-015-0868-3>>. ISSN 0949-7714

Type of production: Scientific paper
Position of signature: 1

Impact source: ISI
Impact index in year of publication: 2.699

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 2** Gonzalez-Casado, G.; Juan, J.; Sanz, J.; Rovira-Garcia, Adrià.; Aragón Angel, A. Ionospheric and Plasmaspheric Electron Contents inferred from Radio Occultations and Global Ionospheric Maps. *Journal of geophysical research: space physics*. 04/07/2015. Available on-line at: <<http://dx.doi.org/10.1002/2014JA020807>>. ISSN 2169-9380

Type of production: Scientific paper
Position of signature: 4

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 3** Rovira-Garcia, Adrià.; Juan, J.; Sanz, J.; Gonzalez-Casado, G. A Worldwide ionospheric model for fast precise point positioning. *IEEE transactions on geoscience and remote sensing*. 53 - 8, pp. 4596 - 4604. Institute of Electrical and Electronics Engineers (IEEE), 03/03/2015. Available on-line at: <<http://dx.doi.org/10.1109/TGRS.2015.2402598>>. ISSN 0196-2892

Type of production: Scientific paper
Position of signature: 1

Impact source: ISI
Impact index in year of publication: 2.933

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 4** Rovira-Garcia, Adrià. Session 2.2. GNSS standard file format. *GNSS data processing*. pp. 39 - 52. (Holland): European Space Agency Communications, 05/2013. Available on-line at: <http://www.esa.int/About_Us/ESA_Publications/ESA_TM-23_GNSS_DATA_PROCESSING>. ISBN 978-92-9221-886-7

Type of production: Book chapter
Position of signature: 1

Format: Book
Degree of contribution: Author or co-author of chapter in book
- 5** Rovira-Garcia, Adrià. Session A.1. Examples of GNSS Elemental Routines. *GNSS Data Processing Fundamentals, Algorithms and Laboratory Exercises*. pp. 265 - 291. (Holland): European Space Agency Communications, 05/2013. Available on-line at: <http://www.esa.int/About_Us/ESA_Publications/ESA_TM-23_GNSS_DATA_PROCESSING>. ISBN 978-92-9221-886-7

Type of production: Book chapter
Position of signature: 1

Format: Book



Degree of contribution: Author or co-author of chapter in book

Works submitted to national or international conferences

- 1** **Title of the work:** High accuracy navigation: from local area to world-wide
Name of the conference: 7th Multi-GNSS Asia Conference
Geographical area: Non EU International
Type of participation: Participatory - invited/keynote talk **Reasons for participation:** Review before acceptance
City of event: Brunei Darussalam, Brunei Darussalam
Date of event: 2016
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific-technical report
Sanz, J.; Rovira-Garcia, Adrià.; Juan, J.; Gonzalez-Casado, G.; Ibañez, D.; Romero-Sánchez, J.; Alonso, M.; Shao, Y.; Escudero, M."High accuracy navigation: from local area to world-wide". En: 7th Multi-GNSS Asia (MGA) Conference: book of abstracts, 7th-10th December 2015, Brunei Darussalam. pp. 1 - 1. 2015.
- 2** **Title of the work:** RTK and PPP, review and evolutions
Name of the conference: 1 st Round BELS Workshop on Multi-GNSS in Indonesia
Type of participation: Participatory - oral communication **Reasons for participation:** Open access
City of event: Bandung, Indonesia
Date of event: 2016
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific-technical report
Sanz, J.; Juan, J.; Rovira-Garcia, Adrià.; Gonzalez-Casado, G.; Ibañez, D.; Romero-Sánchez, J.; Alonso, M.; Shao, Y."RTK and PPP, review and evolutions". En: Workshop on Multi-GNSS in Indonesia. 2016.
- 3** **Title of the work:** Final Presentation ESA/NPI Assessing the capabilities of the life-Galileo signals to support centimetre level absolute positioning accuracy
Name of the conference: Final Presentation Days for Payload Technologies and Products
Reasons for participation: Review before acceptance
City of event: Noordwijk,
Date of event: 2016
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific-technical report
Rovira-Garcia, Adrià.; Juan, J.; Sanz, J."Final Presentation ESA/NPI Assessing the capabilities of the life-Galileo signals to support centimetre level absolute positioning accuracy". En: Final Presentation Days for Payload Technologies and Products: Amsterdam, Holland: February 16-19, 2016: proceedings book.
- 4** **Title of the work:** A Methodology to Assess Ionospheric Models for GNSS
Name of the conference: EGU2015 - European Geosciences Union General Assembly 2015
Type of participation: Participatory - poster **Reasons for participation:** convidada
City of event: viena, Austria
Date of event: 2015



Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific-technical report

Rovira-Garcia, Adrià.; Juan, J.; Sanz, J.; Gonzalez-Casado, G.; Ibañez, M."A Methodology to Assess Ionospheric Models for GNSS". En: Geophysical Research Abstracts Vol. 17 - EGU General Assembly 2015. 2015.

5 Title of the work: Assessment of Ionospheric Models Tailored for Navigation

Name of the conference: Meeting 22

Type of participation: Participatory - invited/keynote **Reasons for participation:** Open access talk

City of event: Trieste, Italy

Date of event: 2015

Publication in conference proceedings: No

With external admission assessment committee:
Yes

Type of contribution: Scientific-technical report

Rovira-Garcia, Adrià.; Juan, J.; Sanz, J.; Gonzalez-Casado, G.; Ibañez, D."Assessment of Ionospheric Models Tailored for Navigation".

6 Title of the work: Assessment of ionospheric models for GNSS during a year of solar maximum

Name of the conference: 28th International Technical Meeting of the Satellite Division of the Institute of Navigation

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Reasons for participation: Open access

City of event: Tampa, Florida, United States of America

Date of event: 2015

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific-technical report

Rovira-Garcia, Adrià.; Juan, J.; Sanz, J.; Gonzalez-Casado, G.; Ibañez, D.; Romero-Sánchez, J."Assessment of ionospheric models for GNSS during a year of solar maximum". En: Proceedings of the 28th International Technical Meeting of The Satellite Division of the Institute of Navigation (ION GNSS+ 2015), 4-18 September, 2015, Tampa, Florida, EUA. 2015.

7 Title of the work: Ionospheric and plasmaspheric contribution to the total electron content inferred from ground data and radio-occultation-derived electron density

Name of the conference: 28th International Technical Meeting of the Satellite Division of the Institute of Navigation

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Reasons for participation: Open access

City of event: Tampa, Florida, United States of America

Date of event: 2015

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific-technical report

Gonzalez-Casado, G.; Juan, J.; Sanz, J.; Rovira-Garcia, Adrià.; Aragon-Angel, M.A."Ionospheric and plasmaspheric contribution to the total electron content inferred from ground data and radio-occultation-derived electron density". En: Proceedings of the 28th International Technical Meeting of The Satellite Division of the Institute of Navigation (ION GNSS+ 2015), 4-18 September, 2015, Tampa, Florida, EUA. pp. 3459 - 3468. 2015.



- 8** **Title of the work:** Ionospheric and plasmaspheric contribution to the total electron content inferred from ground data and radio-occultation-derived electron density
Name of the conference: 28th International Technical Meeting of the Satellite Division of the Institute of Navigation
Geographical area: Non EU International
Type of participation: Participatory - oral communication **Reasons for participation:** Open access
City of event: Tampa, Florida, United States of America
Date of event: 2015
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific-technical report
 Gonzalez-Casado, G.; Juan, J.; Sanz, J.; Rovira-Garcia, Adrià.; Aragón Angel, A."Ionospheric and plasmaspheric contribution to the total electron content inferred from ground data and radio-occultation-derived electron density". En: Proceedings of the 28th International Technical Meeting of The Satellite Division of the Institute of Navigation (ION GNSS+ 2015), 4-18 September, 2015, Tampa, Florida, EUA. pp. 3459 - 3468. 2015.
- 9** **Title of the work:** A real-time world-wide ionospheric model for single and multi-frequency precise navigation
Name of the conference: 27th International Technical Meeting of the Satellite Division of the Institute of Navigation
Geographical area: Non EU International
Type of participation: Participatory - oral communication **Reasons for participation:** Open access
City of event: Tampa, United States of America
Date of event: 2014
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific-technical report
 Rovira-Garcia, Adrià.; Juan, J.; Sanz, J."A real-time world-wide ionospheric model for single and multi-frequency precise navigation". En: Proceedings of the 27th International Technical Meeting of the ION Satellite Division, ION GNSS+ 2014, Tampa, Florida, September 8-12, 2014. pp. 2533 - 2543. The Institute of Navigation, 2014.
- 10** **Title of the work:** Accurate reference ionospheric model for testing GNSS ionospheric correction in EGNOS and Galileo
Name of the conference: 7th ESA Workshop on Satellite Navigation Technologies Era of Galileo IOV
Type of participation: Participatory - oral communication **Reasons for participation:** Review before acceptance
City of event: Noordwijk, Holland
Date of event: 2014
Publication in conference proceedings: No **With external admission assessment committee:** Yes
Type of contribution: Scientific-technical report
 Juan, J.; Sanz, J.; Gonzalez-Casado, G.; Rovira-Garcia, Adrià.; Ibañez, M.; Orús, R.; Prieto-Cerdeira, R.; Schlüter, A. D."Accurate reference ionospheric model for testing GNSS ionospheric correction in EGNOS and Galileo". 2014.
- 11** **Title of the work:** Fast-PPP assessment in European and equatorial region near the solar cycle maximum
Name of the conference: EGU 2014
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
City of event: Viena, Austria



Date of event: 2014

Publication in conference proceedings: No

With external admission assessment committee:
Yes

Type of contribution: Scientific-technical report

Rovira-Garcia, Adrià.; Juan, J."Fast-PPP assessment in European and equatorial region near the solar cycle maximum". 2014.

12 Title of the work: Experiments on the Ionospheric Models in GNSS

Name of the conference: 10th International Conference on Space, Aeronautical and Navigational Electronics 2013

Type of participation: Participatory - oral communication

Reasons for participation: Open access

City of event: Hanoi, Vietnam

Date of event: 2013

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific-technical report

Vinh, L.; Quang, P.; Garcia-Rigo, A.; Rovira-Garcia, Adrià.; Ibañez, M."Experiments on the Ionospheric Models in GNSS". En: 10th International Conference on Space, Aeronautical and Navigational Electronics 2013 (ICSANE 2013), December 2nd-3rd, 2013 Vietnam. pp. 197 - 202. 2013. ISBN ISSN 0913-5685

13 Title of the work: Precise ionospheric sounding and accurate positioning with GNSS: a "win-win" combination

Name of the conference: CSNC 2013

Type of participation: Participatory - invited/keynote talk

Reasons for participation: Open access

City of event: Wuhan,

Date of event: 2013

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific-technical report

Hernandez, M.; Sanz, J.; Juan, J.; Garcia-Rigo, A.; Rovira-Garcia, Adrià."Precise ionospheric sounding and accurate positioning with GNSS: a "win-win" combination". En: CSCN 2013 Proceedings. pp. 1 - 1. 2013.

14 Title of the work: Fast Precise Point Positioning performance based on International GNSS Real-Time Service data: User performance

Name of the conference: 4th Asia Oceania Regional Workshop on GNSS

Type of participation: Participatory - oral communication

Reasons for participation: Open access

Date of event: 2012

Publication in conference proceedings: No

With external admission assessment committee:
Yes

Type of contribution: Scientific-technical report

Juan, J.; Sanz, J.; Rovira-Garcia, Adrià.; Hernandez, M."Fast Precise Point Positioning performance based on International GNSS Real-Time Service data: User performance". 2012.

15 Title of the work: Fast precise point positioning performance based on international GNSS real-time service data

Name of the conference: 6th ESA Workshop on Satellite Navigation Technologies Multi-GNSS Navigation Technologies Galileo's Here

Type of participation: Participatory - oral communication

Reasons for participation: Open access



Date of event: 2012

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific-technical report

Rovira-Garcia, Adrià.; Juan, J.; Sanz, J.; Hernandez, M. "Fast precise point positioning performance based on international GNSS real-time service data". En: 6th ESA Workshop on Satellite Navigation Technologies Multi-GNSS Navigation Technologies Galileo's Here. 2012.

16 Title of the work: The ESA/UPC GNSS-Lab Tool (gLAB): An advanced educational and professional package for GNSS data processing and analysis

Name of the conference: Toulouse Space Show 2012

Type of participation: Participatory - poster

Reasons for participation: Open access

City of event: Toulouse, France

Date of event: 2012

Publication in conference proceedings: No

With external admission assessment committee:
Yes

Type of contribution: Scientific-technical report

Sanz, J.; Rovira-Garcia, Adrià.; Hernandez, M.; Juan, J.; Ventura-Traveset, J.; López, C.; Hein, G. "The ESA/UPC GNSS-Lab Tool (gLAB): An advanced educational and professional package for GNSS data processing and analysis". 2012.

17 Title of the work: The ESA/UPC GNSS-Lab tool (gLAB): an advanced multipurpose package to process and analyse GNSS data

Name of the conference: 5th ESA Workshop on Satellite Navigation Technologies

Type of participation: Participatory - oral communication

Reasons for participation: Open access

City of event: Noordwijk, Holland

Date of event: 2010

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific-technical report

Hernandez, M.; Juan, J.; Sanz, J.; Ramos, P.; Salazar, D.J.; Rovira-Garcia, Adrià.; Ventura-Traveset, J.; Lopez-Echazarreta, C.; Hein, G. "The ESA/UPC GNSS-Lab tool (gLAB): an advanced multipurpose package to process and analyse GNSS data". En: 5th ESA workshop on satellite navigation technologies and european workshop on GNSS signals and signal processing (NAVITEC). pp. 1 - 8. European Space Agency (ESA), 2010. ISBN 978-4244-8739-10

Works submitted to national or international seminars, workshops and/or courses

1 Title of the work: Differential GNSS Methods

Name of the event: Master of Science in GNSS 2016

Type of event: Course

Reasons for participation: Speaker

City of event: Toulouse, France

Date of event: 2016

Organising entity: L'Ecole Nationale de l'Aviation Civile

Publication in conference proceedings: No

Type: Scientific-technical report

Rovira-Garcia, Adrià.. "Differential GNSS Methods".

- 2** **Title of the work:** Tutorial on Fundamentals of GNSS
Name of the event: eknot - Professional_Training
City of event: Warsaw, Poland
Date of event: 07/10/2015
Organising entity: European GNSS Agency
- 3** **Title of the work:** Differential GNSS Methods
Name of the event: Master of Science in GNSS 2015
Type of event: Course
Reasons for participation: Speaker
City of event: Toulouse, France
Date of event: 2015
Organising entity: L'Ecole Nationale de l'Aviation Civile
Publication in conference proceedings: No
Type: Scientific-technical report
Rovira-Garcia, Adrià.. "Differential GNSS Methods".
- 4** **Title of the work:** Lecture on GNSS Data Processing and Laboratory Exercises
Name of the event: ESA International Summer School on Global Navigation Satellite Systems 2015
Type of event: Workshop
Reasons for participation: Speaker
City of event: Barcelona, Spain
Date of event: 2015
Organising entity: European Space Agency **Type of entity:** R&D Centre
Publication in conference proceedings: No
Type: Scientific-technical report
Rovira-Garcia, Adrià.. "Lecture on GNSS Data Processing and Laboratory Exercises".
- 5** **Title of the work:** Differential GNSS Methods
Name of the event: Master of Science in GNSS 2014
Type of event: Course
Reasons for participation: Speaker
City of event: Toulouse, France
Date of event: 2014
Organising entity: L'Ecole Nationale de l'Aviation Civile
Publication in conference proceedings: No
Type: Scientific-technical report
Rovira-Garcia, Adrià.. "Differential GNSS Methods".
- 6** **Title of the work:** Lecture on GNSS Data Processing and Laboratory Exercises
Name of the event: ESA International Summer School on Global Navigation Satellite Systems 2014
Type of event: Workshop
Reasons for participation: Speaker
City of event: Ostrava, Czech Republic
Date of event: 2014
Organising entity: European Space Agency
Publication in conference proceedings: No
Type: Scientific-technical report
Rovira-Garcia, Adrià.. "Lecture on GNSS Data Processing and Laboratory Exercises".



- 7** **Title of the work:** Differential GNSS Methods
Name of the event: Master of Science in GNSS 2013
Type of event: Course
Reasons for participation: Speaker
City of event: Toulouse, France
Date of event: 2013
Organising entity: L'Ecole Nationale de l'Aviation Civile
Publication in conference proceedings: No
Type: Scientific-technical report
 Rovira-Garcia, Adrià.. "Differential GNSS Methods".
- 8** **Title of the work:** Lecture on GNSS Data Processing and Laboratory Exercises
Name of the event: ESA International Summer School on Global Navigation Satellite Systems 2013
Type of event: Workshop
Reasons for participation: Speaker
City of event: Davos, Switzerland
Date of event: 2013
Organising entity: European Space Agency
Publication in conference proceedings: No
Type: Scientific-technical report
 Rovira-Garcia, Adrià.. "Lecture on GNSS Data Processing and Laboratory Exercises".
- 9** **Title of the work:** Lecture on GNSS Data Processing and Laboratory Exercises
Name of the event: ESA International Summer School on Global Navigation Satellite Systems 2012
Type of event: Workshop
Reasons for participation: Speaker
City of event: Toulouse, France
Date of event: 2012
Organising entity: European Space Agency
Publication in conference proceedings: No
Type: Scientific-technical report
 Rovira-Garcia, Adrià.. "Lecture on GNSS Data Processing and Laboratory Exercises".

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** EUROPEAN SPACE RESEARCH AND TECHNOLOGY CENTRE (ESTEC) **Type of entity:** R&D Centre
Start date: 01/06/2015 **Duration:** 2 months
Provable tasks: Implementation of the undiferenced ambiguity fixing capability on the Fast Precise Point Positioning Technique user receiver, mass-market receiver mobile test campaigns.
- 2** **Entity:** European Space Research & Technology Centre (ESTEC) **Type of entity:** R&D Centre
City of entity: Noordwijk, Holland
Start date: 02/06/2014 **Duration:** 2 months
Provable tasks: Expansion of the Fast Precise Point Positioning (Fast-PPP) technique to equatorial latitudes on a daily basis. This corresponds to the second reserach-stage according to ESA/NPI agreement.



- 3** **Entity:** European Space Research and Technology Center (ESA-ESTEC) **Type of entity:** Innovation and Technology Centres
City of entity: Noordwijk, Holland
Start date: 10/06/2013 **Duration:** 1 month - 24 days
Provable tasks: Multi-constellation implementation in a Enhanced Precise Point Positioning (EPPP) software receiver taking benefit of receivers and data available in ESA/ESTEC laboratories.

Obtained grants and scholarships

- 1** **Name of the grant:** Travel support for the ION GNSS+ 2014
City awarding entity:
Aims: Pre-doctoral
Awarding entity: Satellite Navigation University Network **Type of entity:** Associations and Groups
Amount of the grant: 750
Conferral date: 08/09/2014 **Duration:** 5 days
- 2** **Name of the grant:** Ajuts FPI-UPC Específica per a la realització de tesis doctorals en col·laboració amb empreses i ens externs
City awarding entity: Spain
Aims: Pre-doctoral
Awarding entity: Programa Campus d'Excel·lència Internacional del Ministerio de Educación, Cultura y Deporte **Type of entity:** Body, others
Amount of the grant: 21.896
Conferral date: 18/02/2013 **Duration:** 3 years
- 3** **Name of the grant:** Fugro Support to ESA-NPI 220-2011 as industrial partner
City awarding entity: Leidschendam, Holland
Aims: Pre-doctoral
Awarding entity: FUGRO Intersite, B.V. **Type of entity:** Business
Amount of the grant: 10.000
Conferral date: 07/05/2012 **Duration:** 3 years
- 4** **Name of the grant:** Networking/Partnering Initiative (NPI)
City awarding entity: Paris, France
Aims: Pre-doctoral
Awarding entity: European Space Agency **Type of entity:** R&D Centre
Amount of the grant: 45.000
Conferral date: 07/05/2012 **Duration:** 3 years
- 5** **Name of the grant:** Colaboración en Departamentos Universitarios
City awarding entity: Madrid, Spain
Aims: Support a les activitats del grup gAGE/UPC
Awarding entity: Gobierno de España. Ministerio de Educación y Ciencia (Mec) **Type of entity:** Gobierno de España. Ministerio de Educación y Ciencia (Mec)
Amount of the grant: 2.700
Conferral date: 01/09/2009 **Duration:** 10 months - 1 day



Prizes, mentions and distinctions

- 1** **Description:** First prize. ION GNSS+ 2014 Best Presentation Awards
Awarding entity: Institute of Navigation
City awarding entity: Manassas, Virginia, United States of America
Conferral date: 12/09/2014
Recognition linked: Session E4: High Precision GNSS Positioning A Real-time World-wide Ionospheric Model for Single and Multi-frequency Precise Navigation: A. Rovira-Garcia, J. M. Juan, J. Sanz, Technical University of Catalonia (UPC), Spain
- 2** **Description:** First prize. Outstanding Student Poster Award
Awarding entity: European Geosciences Union
City awarding entity: Munich, Germany
Recognition linked: Fast-PPP assessment in European and equatorial region near the solar cycle maximum Geophysical Research Abstracts Vol. 16, EGU2014-4144. EGU General Assembly 2014