

Activitats de Recerca

2014



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1. Research Personnel

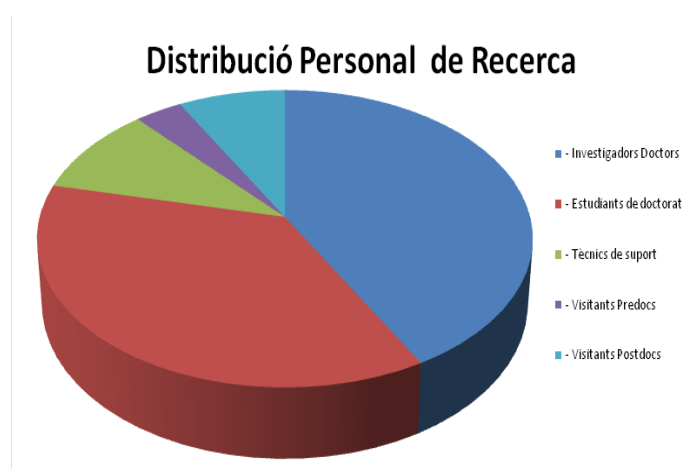
As of 31 December 2014, CVC personnel who perform research activities are composed by:

POST DOC RESEARCHERS (49):

- **Permanent (22):** including 4 senior researchers contracted by CVC and also 18 university professors from UAB, UB and UOC.
- **Postdoc contracts (27):** including Ramon y Cajal, Beatriu de Pinós, as well as those hired by the CVC and the UAB, UB and UOC universities.

PHD. STUDENTS (51): It includes any PhD student with a scholarship (CVC, UAB, FPI or FI) or a contract as an assistant at the UAB, UB, or UOC, as well as the master students.

INTERNSHIPS (44): During 2014, CVC hosted for periods between 2 and 4 months (within the academic year), young undergraduate or master students to develop a training stage in some of the CVC research groups. In some cases, these stages have been the introduction to research work.



2. Competitive Projects

2.1 Awarded in 2014

2.1.1 Research Projects

TITLE: *Movimiento Acostumbrado de los Peatones: Estudio para Atajar los Atropellos (MAPEA2)*

REFERENCE: SPIP20141352

FUNDING ENTITY: MINISTERIO DEL INTERIOR

DURATION: 14/10/2014 – 13/10/2015

TOTAL AWARDED: 48.841,00 €

RESEARCHER: Antonio López

TITLE: *Closing the loop: bio-inspired top-down feedback for computational vision systems*

REFERENCE: TIN2013-41751-P

FUNDING ENTITY: Ministerio de Economía y Competitividad

DURATION: 2014-2016

TOTAL AWARDED: 77.001,38 €

RESEARCHER: Xavier Otazu / Joost van de Weijer

TITLE: *Accurate color measurements from hand-held devices*

REFERENCE: TIN2013-50550-EXP

FUNDING ENTITY: Ministerio de Economía y Competitividad

DURATION: 2014-2015 (01/09/2014–31/08/2015)

TOTAL AWARDED: 36.300,00 €

RESEARCHER: Joost van de Weijer

TITLE: *Beauty is in the AI of the beholder: computer vision meets neuro-visual aesthetics*

REFERENCE: TIN2013-49982-EXP

FUNDING ENTITY: Ministerio de Economía y Competitividad

DURATION: 2014-2015 (01/09/2014–31/08/2015)

TOTAL AWARDED: 60.500,00 €

RESEARCHER: Alejandro Parraga

TITLE: *CONSOLIDER REDES EXCELENCIA (R-MIPRCV)*

REFERENCE: TIN2014-54728-REDC

FUNDING ENTITY: Ministerio de Economía y Competitividad

DURATION: 2014-2016

TOTAL AWARDED: 37.000,00€

RESEARCHER: Angel Sappa

TITLE: *Plataforma “Better at home”.Solución integral de teleasistencia (indoor & outdoor) basada en monitorización mediante sensores, sistemas de autoaprendizaje y tecnología móvil*

REFERENCE: RTC-2014-2148-1

FUNDING ENTITY: Ministerio de Economía y Competitividad

DURATION: 2014-2016

TOTAL AWARDED: 116.183,00€

RESEARCHER: Sergio Escalera

TITLE: *NeuroChild Eyetracking: Rehabilitación cognitiva de Niños con Daño Cerebral Adquirido basada en Serious Games para dispositivos móviles y con control visual de atención*

REFERENCE: RTC-2014-2228-1

FUNDING ENTITY: Ministerio de Economía y Competitividad

DURATION: 2014-2016

TOTAL AWARDED: 101.640,00€

RESEARCHER: Sergio Escalera

TITLE: *Document analysis and knowledge modeling for cultural heritage actions in Pyrenees – (CTP-DGR)*

REFERENCE: 2014 CTP 00052

FUNDING ENTITY: AGAUR – Agència de Gestió d'Ajuts Universitaris i de Recerca

DURATION: 2015-2016

TOTAL AWARDED: 5.000,00€

RESEARCHER: O.Ramos

TITLE: *Care respite: monitorització visual intel.ligent de persones dependents*

REFERENCE: RD14-1-0102

FUNDING ENTITY: ACCIÓ

DURATION: 2015-2016

TOTAL AWARDED: 5.000,00€

RESEARCHER: O.Ramos

TITLE: *Valorització d'un dispositiu mèdic per la classificació de càlculs renals*

REFERENCE: VALTEC13-1-0148

FUNDING ENTITY: ACCIÓ

DURATION: 2014-2015

TOTAL AWARDED: 43.016,00€

RESEARCHER: Joan Serrat & Felipe Lumbreras

2.2.2 SGR - Approved Research groups

TITLE: *Learning and Machine Perception (LAMP)*

REFERENCE: 2014 SGR 221

FUNDING ENTITY: AGAUR – Agència de Gestió d'Ajuts Universitaris i de Recerca

DURATION: 2014-2017

TOTAL AWARDED: 15.000,00 €

RESEARCHER: **Dr. Joost van de Weijer**

TITLE: *Research Lab on Image Sequence Evaluation (ISE Lab)*

REFERENCE: 2014 SGR 159

FUNDING ENTITY: AGAUR – Agència de Gestió d'Ajuts Universitaris i de Recerca

DURATION: 2014-2017

TOTAL AWARDED: No-finançat

RESEARCHER: **Dr. Jordi González**

TITLE: *Grup d'Anàlisi i Reconeixement d'Imatges de Documents (DAG)*

REFERENCE: 2014 SGR 1436

FUNDING ENTITY: AGAUR – Agència de Gestió d'Ajuts Universitaris i de Recerca

DURATION: 2014-2017

TOTAL AWARDED: 35.000,00 €

RESEARCHER: Dr. Josep Lladós

TITLE: *Advanced Driver Assistance Systems (ADAS)*

REFERENCE: SGR 2014 1506

FUNDING ENTITY: AGAUR – Agència de Gestió d'Ajuts Universitaris i de Recerca

DURATION: 2014-2017

TOTAL AWARDED: 30.000,00 €

RESEARCHER: **Dr. Antonio López**

TITLE: *Interactive Augmentend Machine Vision (IAMV)*

REFERENCE: 2014 SGR 1470

FUNDING ENTITY: AGAUR – Agència de Gestió d'Ajuts Universitaris i de Recerca

DURATION: 2014-2017

TOTAL AWARDED: No-finançat

RESEARCHER: **Dr. Debora Gil**

TITLE: *Color in Context Group (CVC)*

REFERENCE: 2014 SGR 1659

FUNDING ENTITY: AGAUR – Agència de Gestió d'Ajuts Universitaris i de Recerca

DURATION: 2014-2017

TOTAL AWARDED: No-finançat

RESEARCHER: **Dr. Maria Vanrell**

TITLE: *Computer Vision at the Universitat de Barcelona*

REFERENCE: 2014 SGR 1219

FUNDING ENTITY: AGAUR – Agència de Gestió d'Ajuts Universitaris i de Recerca

DURATION: 2014-2017

TOTAL AWARDED: 22.500,00€

RESEARCHER: **Dr. Petia Radeva**

TITLE: *Grup de Visió i Aprenentatge Computacional (VCL)*

REFERENCE: 2014 SGR 561

FUNDING ENTITY: AGAUR – Agència de Gestió d’Ajuts Universitaris i de Recerca

DURATION: 2014-2017

TOTAL AWARDED: No-finançat

RESEARCHER: **Dr. Oriol Pujol**

TITLE: *Scene Understanding and Artificial Intelligence Lab (SUNAI)*

REFERENCE: 2014 SGR 564

FUNDING ENTITY: AGAUR – Agència de Gestió d’Ajuts Universitaris i de Recerca

DURATION: 2014-2017

TOTAL AWARDED: No-finançat

RESEARCHER: **Dr. David Masip**

2.2.3 Recruitment and Mobility Scholarships and Grants

TITLE: *Doctorat Industrial SCYTL-UAB-CVC*

REFERENCE: 2013 DI 067

FUNDING ENTITY: AGAUR – Agència de Gestió d'Ajuts Universitaris i de Recerca

DURATION: 2014-2017

TOTAL AWARDED: 66.180,00 €

RESEARCHER: Juan Ignacio Toledo

ADVISOR: Josep Lladós / Alicia Fornés

TITLE: *Doctorat Industrial CATUAV-UAB-CVC*

REFERENCE: 2014 DI 024

FUNDING ENTITY:

DURATION: 2014-2017

TOTAL AWARDED: 55.560,00€

RESEARCHER: Jordi Salvador

ADVISOR: Felipe Lumbreras

TITLE: *Beca FI*

REFERENCE: 2014 FI_B 00373

FUNDING ENTITY: AGAUR – Agència de Gestió d'Ajuts Universitaris i de Recerca

DURATION: 2014-2017

TOTAL AWARDED: 45.600,00 €

RESEARCHER: Meysam Madadi

ADVISOR: Jordi González /Sergio Escalera

TITLE: *Beatriu de Pinós 2013*

REFERENCE: 2013 BP_B 00263

FUNDING ENTITY: AGAUR – Agència de Gestió d'Ajuts Universitaris i de Recerca

DURATION: 2014-2016

TOTAL AWARDED: 91.022,40 €

RESEARCHER: Maria Dimiccoli

TITLE: *Beca FPI 2013*

REFERENCE: BES-2013-063756

FUNDING ENTITY: Ministerio de Economía y Competitividad

DURATION: 2014-2017

TOTAL AWARDED: 20.600,00 €

RESEARCHER: Antoni Gurguí

ADVISOR: Debora Gil

TITLE: *Deep learning strategies for semantic segmentation with hundreds of categories - Jose Castillejos 2014*

REFERENCE: CAS14/00074

FUNDING ENTITY: Ministerio de Educación, Cultura y Deporte

DURATION: 01/05/2015 – 31/07/2015

TOTAL AWARDED: 9.981,00 €

RESEARCHER: Carlo Gatta

TITLE: *Modelizacion Computacional Neurodinamica del Cortex Visual Primario Para la Percepcion Binocular de la Profundidad*

REFERENCE: PRX14/00603

FUNDING ENTITY: Ministerio de Educación, Cultura y Deporte

DURATION: 01/03/2015 – 31/05/2015

TOTAL AWARDED: 11.205,00€

RESEARCHER: Xavier Otazu

TITLE: *OSP: The Open Solution Platform*

REFERENCE: TECSPR14-1-0005

FUNDING ENTITY: ACCIÓ

DURATION: 2015-2017

TOTAL AWARDED: 100.920,59€

RESEARCHER: Ariel Amato

TITLE: *Cost Action*

REFERENCE: IC 1307

FUNDING ENTITY: UE

DURATION: 2014-2018

RESEARCHERS: Jordi González & Sergio Escalera

2.2.4 Other grants

TITLE: *The First Catalan Meeting in Computer Vision.*

REFERENCE: 2014 PRODI 00014

FUNDING ENTITY: AGAUR – Agència de Gestió d'Ajuts Universitaris i de Recerca

DURATION: 2014

RESEARCHERS: David Rotger

2.2 In execution in 2014.

2.2.1 Research projects.

TITLE: *PROGRAMA SUMA*
REFERENCE: VISITT
FUNDING ENTITY: CERCA
DURATION: 2014
TOTAL AWARDED: 100.000,00 €
RESEARCHER: Josep Lladós

TITLE: *PRAGMATA - Desarrollo de la Hermenéutica Visual en la Interpretación de Imágenes.*
REFERENCE: TIN2012-39051
FUNDING ENTITY: Ministerio de Economía y Competitividad
DURATION: 2012-2015
TOTAL AWARDED: 90.768,60 €
RESEARCHER: X.Roca

TITLE: *Co-READ - Reconocimiento Contextual en Documentos Antiguos*
REFERENCE: TIN2012-37475-C02-02
FUNDING ENTITY: Ministerio de Economía y Competitividad
DURATION: 2012-2015
TOTAL AWARDED: 88.639,20 €
RESEARCHER: J. Lladós

TITLE: *FISIOLOGICA - Integración de datos anatómico-funcionales mediante mapas de coordenadas normalizados basados en marcadores fisiológicos.*
REFERENCE: TIN2012-33116
FUNDING ENTITY: Ministerio de Economía y Competitividad
DURATION: 2012-2015
TOTAL AWARDED: 116.020,71 €
RESEARCHER: D.Gil

TITLE: *SiMeVé Sistema Multiespectral de Visió Estèreo*
REFERENCE: TIN2011-25606
FUNDING ENTITY: Ministerio de Ciencia e Innovación
DURATION: 2011-2014
TOTAL AWARDED: 49.368,00 €
RESEARCHER: A. Sappa

TITLE: *ViDAS-UrbE - Sistemas de Visión por Computador para la Asistencia a la Conducción en Entornos Urbanos.*
REFERENCE: TRA2011-29454-C03-01
FUNDING ENTITY: Ministerio de Ciencia e Innovación
DURATION: 2011-2015
TOTAL AWARDED: 87.120,00 €
RESEARCHER: A. López

TITLE: *FireWatcher - Monitorización de Incendios Mediante la Inspección Aérea del Terreno.*
REFERENCE: TIN2011-29494-C03-02
FUNDING ENTITY: Ministerio de Ciencia e Innovación
DURATION: 2011-2015
TOTAL AWARDED: 32.186,00 €
RESEARCHER: D. Ponsa

TITLE: *TnC - Text en la Ciutat - Comprensió Centrada en Humans de Text en Escenes*
REFERENCE: TIN2011-24631
FUNDING ENTITY: Ministerio de Ciencia e Innovación
DURATION: 2011-2014
TOTAL AWARDED: 78.045,00 €
RESEARCHER: D. Karatzas

TITLE: *CVC - PLAN DE TRANSFERENCIA DE TECNOLOGÍA 2011*
REFERENCE: OTR-2011-0292
FUNDING ENTITY: Ministerio de Ciencia e Innovación
DURATION: 2011-2014
TOTAL AWARDED: 95.000,00 €
RESEARCHER: J. Lladós

TITLE: *Introducción de información de color y mecanismos de atención a modelos Bio-inspirados de Visión por Computador*
REFERENCE: TIN-2010-2177-C02-01
FUNDING ENTITY: Ministerio de Ciencia e Innovación
DURATION: 2010-2014
TOTAL AWARDED: 148.830,00 €
RESEARCHER: M.Vanrell

TITLE: *X-QPA: a Quantitative X-ray-based intraoperative myocardial Re-perfusion Computer-assisted Analysis / Diagnosis Tool.*
REFERENCE: 2010 VALOR 00158
FUNDING ENTITY: Agència de Gestió d'Ajuts Universitaris i de Recerca
DURATION: 2011-2014
TOTAL AWARDED: 76.005,00 €
RESEARCHER: C. Gatta

TITLE: *Pla d'Actuació 2014*
REFERENCE: Ajuts als Centres IT –Tecnio 2014
FUNDING ENTITY: ACCIÓ
DURATION: 2014
TOTAL AWARDED: 22.500,00€
RESEARCHER: D.Rotger

TITLE: *Election Optical Tabulator*
REFERENCE: TSI-100400-2013-67
FUNDING ENTITY: Ministerio de Industria, Energía y Turismo
DURATION: 2013-2018
TOTAL AWARDED: 150.082,90 €
RESEARCHER: Alícia Fornés

TITLE: *5CofM—Five Centuries of Marriages.*
REFERENCE: Project Number 269796
FUNDING ENTITY: Unió Europea
DURATION: 2011-2015
TOTAL AWARDED: 396.800,00 €
RESEARCHER: J.Lladós

2.2.2 Recruitment and mobility

TITLE: Beca FPI 2010
REFERENCE: BES-2010-031102
FUNDING ENTITY: Ministerio de Economía y Competitividad
DURATION: 2010-2014
TOTAL AWARDED: 42.992,80 €
RESEARCHER: Patricia Márquez
ADVISOR: Debora Gil

TITLE: Beca FPI 2010
REFERENCE: BES-2010-041301
FUNDING ENTITY: Ministerio de Economía y Competitividad
DURATION: 2010-2014
TOTAL AWARDED: 42.819,44 €
RESEARCHER: Ekaterina Zaytseva
ADVISOR: Jordi Vitrià

TITLE: Beca FI
REFERENCE: 2012FI_B 01124
FUNDING ENTITY: AGAUR
DURATION: 2013-2016
TOTAL AWARDED: 14.400,00 €
RESEARCHER: Lluís Gómez
ADVISOR: Dimosthenis Karatzas

TITLE: Beca FPI 2012
REFERENCE: BES-2012-058280
FUNDING ENTITY: Ministerio de Economía y Competitividad
DURATION: 2013-2016
TOTAL AWARDED: 70.408,00 €
RESEARCHER: Juan Sebastian Ramos
ADVISOR: Antonio López

TITLE: Técnicos de Apoyo 2012
REFERENCE: PTA2012-8115-E
FUNDING ENTITY: Ministerio de Economía y Competitividad
DURATION: 2013-2016
TOTAL AWARDED: 48.000,00 €
RESEARCHER: Raul Alcaide
ADVISOR: David Rotger / Meritxell Bassoles

TITLE: AVAL-DOC Advances in Automatic Valorisation of Administrative Document Contents

REFERENCE: TECSPR13-1-0017

FUNDING ENTITY: ACCIÓ

DURATION: 2014-2015

TOTAL AWARDED: 95.838,68 €

RESEARCHER: Marçal Rossinyol

2.3 Fact Sheet - Competitive I+D projects and RRHH Grants in 2014

		CONCEDITS	EN EXECUCIÓ
Autonòmics	I+D	1 CTP	1 Valor
	Empresa	1 Valtec	1 Teccit
	RRHH	1 BP 1 FI 2 DI	2 FI
	Altres	9 SGR (4 finançats), 1 PRODI	1 SUMA
Estatals	I+D*	5 (1 Excelencia, 2 Explora, 1DGT, 1Redes)	8 (Micinn)
	Empresa	2 Retos	INNCADE AVANZA SCYTL
	RRHH	1 CAS 1 Mobilitat	1 PTA 4 FPI
Europeus	I+D		1 ERC
	RRHH*	1 Tecniospring 1 Cost	1 Tecniospring

3. PhD Thesis

Tanh-Ha Do: *"Sparse Representations over Learned Dictionary for Document Analysis"*, CVC-UAB and Université de Lorraine (France), April 4, 2014.

Advisors: **Dr. Oriol Ramos** and **Dr. Salvatore Tabbone**

Anjan Dutta: *"Inexact Subgraph Matching Applied to Symbol Spotting in Graphical Documents"*. CVC-UAB, May 6, 2014.

Advisors: **Dr. Josep Lladós** and **Dr. Umapada Pal**

Michal Drozdal: *"Sequential Image Analysis for Computer Aided Wireless Endoscopy"*. CVC-UB, May 16, 2014

Advisor: **Dr. Petia Radeva**

Mónica Piñol Naranjo: *"Reinforcement Learning of Visual Descriptors for Object Recognition"*. CVC-UAB, July 8, 2014

Advisor: **Dr. Ricardo Toledo** and **Dr. Angel Sappa**

Antonio Clavelli: *"A Computational Model of Eye Guidance, Searching for Text in Real Scene Images"*. CVC-UAB, October 13, 2014

Advisor: **Dr. Giuseppe Boccignone**, **Dr. Dimosthenis Karatzas** and **Dr. Josep Lladós**

Jon Almazán: *"Learning to Represent Handwritten Shapes and Words for Matching and Recognition"*. CVC-UAB, October 21, 2014.

Advisors: **Dr. Ernest Valveny** and **Dr. Alícia Fornés**

David Fernández Mota: *"Contextual Word Spotting in Historical Handwritten Documents"*. CVC-UAB, November 14, 2014.

Advisors: **Dr. Josep Lladós** and **Dr. Alícia Fornés**

Eloi Puertas Prats: *"Generalized Stacked Sequential Learning"*. CVC-UB, November 14, 2015.

Advisors: **Dr. Oriol Pujol** and **Dr. Sergio Escalera**

Lluís-Pere de las Heras: *"Relational Models for Visual Understanding of Graphical Documents. Application to Architectural Drawings"*. CVC-UAB, December 15, 2014.

Advisor: **Dr. Gemma Sánchez**

Carles Sánchez Ramos: *"Tracheal Structure Characterization using Geometric and Appearance Models for Efficient Assessment of Stenosis in Videobronchoscopy Drawings"*. CVC-UAB, December 16, 2014.

Advisors: **Dr. F. Javier Sánchez Pujadas**, **Dr. Debora Gil**, **Dr. Jorge Bernal del Nozal**.

Christophe Rigaud: *"Segmentation and Indexation of Complex Objects in Comic Book Images"*. Université de la Rochelle and CVC-UAB, December 11, 2014.

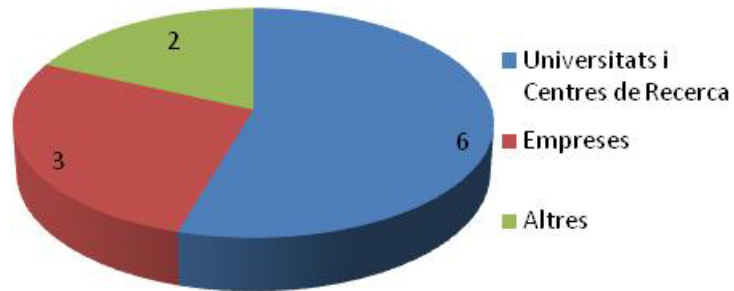
Advisors: Prof. Dr. Jean-Christophe Burie, Prof. Dr. Jean-Marc Ogier and **Dr. Dimosthenis Karatzas**.

**11 Tesis
2014**

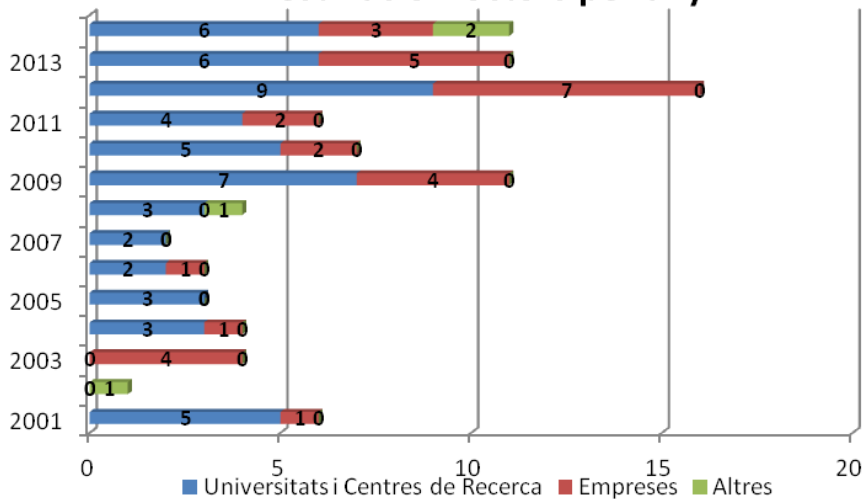
Distribution of new PhD in 2014

- **Universities and Research Centres (6):** Universitat de Barcelona, Paris Tech, Université de la Rochelle, CVC (2)
- **Companies (3):** ICAR Vision Systems, INDRA, Xerox Research Centre Europe

Destinació doctors - 2014



Destinació Doctors per any



4. Master thesis and Master projects

- **Cristhian Aguilera**, *“Evaluation of feature detectors and descriptors in VISIBLE-LWIR cross-spectral imaging”*, CVC-UAB, July 26, 2014.
Advisors: **Dr. Angel Sappa & Dr. Ricardo Toledo**, CVC-UAB
- **Eduard Ramon Maldonado**, *“Design and Implementation of a Semi-Automatic Bodymarks Detection and System”*, CVC, September 10, 2014.
Advisor: **Dr. Ernest Valveny**, CVC-UAB
- **Antonio Esteban Lansaque**, *“3D reconstruction and recognition using structured light”*, CVC-UAB, September 10, 2014.
Advisors: **Dr. Javier Ruiz** (UPC)
- **Carlos Puig Toledo**, *“Automatic Performance Analysis in Trampoline from RGB-Depth Data”*, UAB, September 10, 2014.
Advisors: **Dr. Jordi González CVC-UAB & Dr. Sergio Escalera**, CVC-UB
- **Ricard Balagué**, *“Exploring the combination of color cues for intrinsic image decomposition”*, CVC-UAB, September 30, 2014.
Advisor: **Dr. Robert Benavente**, CVC-UAB
- **Sean Connolly**, *“Introduction of a Biologically Plausible Color Descriptor to a Neurodynamical Model of the Primary Visual Cortex”*, UAB, September 30, 2014.
Advisor: **Dr. Xavier Otazu**, CVC-UAB
- **Sebastián Ramos**, *“Vision-based Detection of Road Hazards for Autonomous Driving”*, CVC, October 6, 2014.
Advisor: **Dr. Antonio M. López**, CVC-UAB

5. Research stays: outgoing

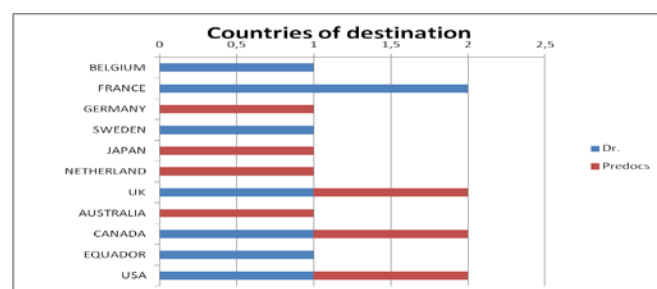
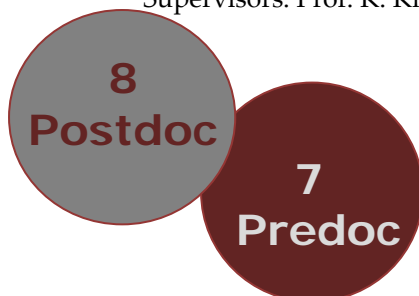
During 2014, CVC's research staff had carried out 15 research stays in labs outside Spain. Of these, a 5 were in centers in America, 8 in Europe, 1 in Japan and 1 in Australia.

Postdoctoral (8):

- **Dr. Angel Sappa**, Facultad de Ingeniería en Electricidad y Computación, Escuela Superior Politécnica del Litoral (ESPOL), Quayaquil (Ecuador), Deseembre de 2013 – Febrer de 2014.
- **Dr. Xavier Otazu**, University of Saint Andrews, Saint Andrews (Scotland), March 25 – April 1, 2014.
- **Dr. Àgata Lapedriza**, MIT, Cambridge (MA, USA), February 2013 – present. Invited by Prof. Antonio Torralba.
- **Dr. Jordi González**, VISICS –Center for Processing Speech and Images, KU Leuven (Belgium), May 1 – June 30, 2014.
- **Dr. Joost van de Weijer**, Hubert Curien Lab, Université Jean Monnet of St. Etienne (France), June 2014.
- **Dr. Fernando Vilariño**, Université de Saint-Denis, La Réunion (France) September 8 to October 19, 2014
- **Dr. Alicia Fornés**, Uppsala Universitet, Uppsala (Sweden), October 6 to December 19, 2014.
- **Dr. Santi Seguí**, University of Toronto – UofT (Canada), with Prof. Sven Dickinson, from September 1, 2014 to January 31, 2015.

Predocctoral (7):

- **Germán Ros**, Computer Vision Research Group, NICTA, José Manuel Álvarez – National ICT Australia, December 2013 to March 2014.
- **Hongxing Gago**, UMIACS University of Maryland (USA), February to April 2014.
- **Simeon Petkov**, Erasmus MC Universitair Medisch Centrum Rotterdam (The Netherlands), April 1 to July 1, 2014.
- **Sebastián Ramos**, Daimler AG (Mercedes Benz), Stuttgart (Germany), July 21 to December 14, 2014.
- **Adriana Romero**, Département d'Informatique et Recherche Opérationnelle, Univesité de Montreal, August 1, 2014 – January 31, 2015. Supervisor: Prof. Yoshua Bengio
- **Jiaolong Xu**, Center for Vision, Speech and Signal Processing (CVSSP), Surrey University (UK), September to December 2014. Supervisor: Krystian Mikolajczyk.
- **Christophe Rigaud**, Osaka Prefecture University (Japan), October to November 2014. Supervisors: Prof. K. Kise and Dr. M. Iwamura.



6. Research stays: incoming

During 2014, we have received 18 researchers coming from other centers and institutions. Of these, just 1 of them came from another University in Spain. The rest were from centres in Europe (12), America (2) and Asia (2).

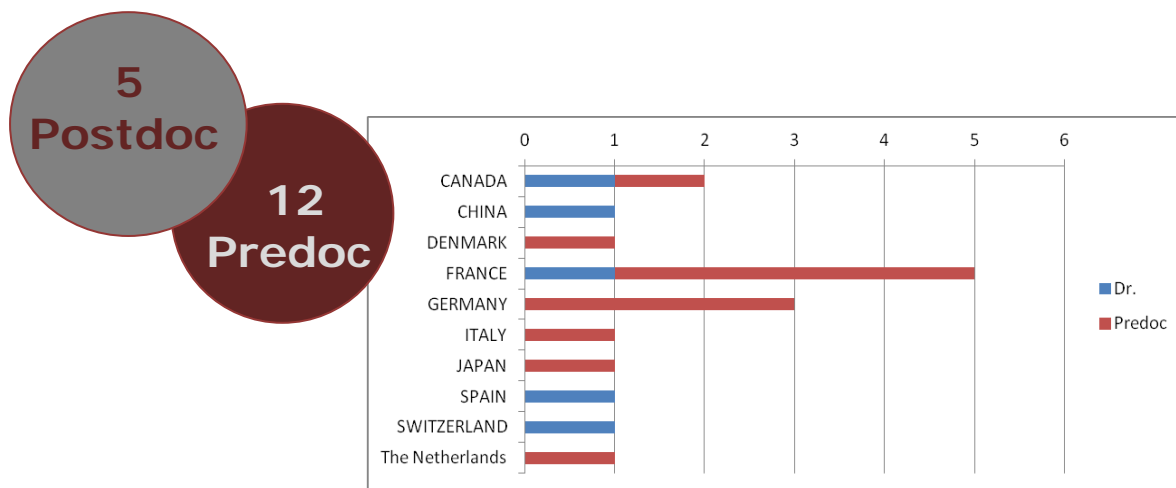
Postdoctoral (5):

- Dr. Peng Zhang, National University of Defense Technology – NUDT, Hunan (China), October 2013-September 2014. Stay with **ADAS Group**.
- Dr. Pierre Héroux, Laboratoire LITIS - Université de Rouen, Saint-Etienne du Rouvray (France), October 2013 – April 2014. Stay with **DAG Group**
- Dr. Antonio Hernández, Departament de Disseny en la Ingenieria de la Universidade de Vigo, March 24 to May 2, 2014. Stay with **ADAS Group**.
- Prof. Mohamed Cheriet, Synchromedia and Libia Labs, École de Technologie Supérieure, Université du Québec (Canada). April 20 – May 20, 2014. Stay with **DAG Group**
- Dr. Miquel Ferrer, University of Applied Sciences and Arts Northwestern Switzerland FHNW. Stay with **DAG Group**.

Predoctoral (12):

- Aleksandr Setkov, LIMSI-CNRS & Université Paris-Sud (France), February 1 – July 31, 2014. Stay with CIC group, supervisors **Dr. Maria Vanrell** and **Dr. Ramon Baldrich**.
- Leonard Rothacker, Technischen Universität Dortmund (Germany), March 1 – April 27, 2014. Stay with DAG group, supervisors **Dr. Marçal Rusiñol** and **Dr. Josep Lladós**.
- Yannick Thorsten, Technische Universität Kaiserslautern, April 14 to June 23, 2014. Stay with DAG group, supervisor **Dr. Dimos Karatzas**.
- Peng Wang, Laboratoire Hubert Curien (Université Jean Monnet), Saint-Etienne (France), April 1 to July 31, 2014. Stay with DAG group, supervisors: **Dr. Josep Lladós** and **Dr. Alicia Fornés**.
- Marc Olivier Lefebvre, Department of Electrical Engineering, Polytechnique Montreal (Canada), June 2 – August 2 2014. Stay with DAG group, supervisor **Dr. Alicia Fornés**.
- Monica Benigni, Scuola di Ingegneria, Università degli Studi di Firenze (Italy), July 2 2014 – January 31 2015, Stay with LAMP group, supervisor **Dr. Andrew D. Bagdanov**.
- Hanne Kause, SPS - Signal Processing Systems, Electrical Engineering, University of Eindhoven (Technical University of Eindhoven), Eindhoven (The Netherlands), July 2-16, 2014. Stay with IAM group, supervisor **Dr. Debora Gil**.
- Niia Nikolova, Visual Perception Group, Max Planck Institute for Neurological Research, Cologne (Germany), July, 2014. Stay with CIC group, supervisor **Dr. Xavier Otazu**.
- Andrews Cordolino, Computer Vision and Pattern Recognition, Université de la Rochelle (France), July 1 – September 30, 2014. Stay with ISE group, supervisor **Dr. Jordi González**.
- Caroline Pacheco, Computer Vision and Pattern Recognition, Université de la Rochelle (France), July 1 – September 30, 2014. Stay with ISE group, supervisor **Dr. Jordi González**.

- Mikkel Thoegersen, Aalborg University (Denmark), September 2014 – February 2015. Stay with ISE group, supervisor **Dr. Jordi Gonzàlez**.
- Takuro Okada, Osaka Prefecture University (Japan), October 7 2014 – February 28, 2015. Stay with DAG group, supervisors **Dr. Dimosthenis Karatzas** and **Dr. Josep Lladós**.



7. Courses, Tutorials and Invited Talks by CVC personnel

COURSES:

Title: *Reconocimiento Facial y Técnicas Biométricas* (3 h). in Master en Criminología (UAB)

Lecturer: Dr. Bogdan Raducanu – Computer Vision Center

Place: Conference Room – Computer Vision Center

Date: May 30, 2014

TUTORIALS:

Title: *Gestión y estrategias de investigación y transferencia de tecnología* (experiencias personales).

Lecturer: Dr. Angel Sappa – Computer Vision Center

Place: Facultad de Ingeniería en Electricidad y Computación de la Escuela Superior Politécnica del Litoral (ESPOL), Guayaquil (Ecuador)

Date: February 7, 2014

Title: *Tutorial on Colour constancy and Colour-Texture Description* (8 h), in Master Erasmus Mundus CIMET (Color in Informatics and Media Technology).

Lecturer: Dr. Maria Vanrell – Computer Vision Center & UAB

Place: Universidad de Granada (Spain)

Date: May 20, 21 and 22, 2014

INVITED TALKS:

Title: *Color for Object Recognition*

Lecturer: Dr. Joost van de Weijer

Place: University Erlangen – Nuremberg

Date: January 30, 2014

Title: *Combining Vision and Language for designing Cognitive Video Surveillance Systems*

Lecturer: Dr. Jordi González

Place: Processing Speech and Images – KU Leuven

Date: May 26, 2014

Title: *Document Recognition*, in International Document Image Processing Summer School 2014

Lecturer: Dr. Josep Lladós

Place: Fourni (Greece)

Date: May 28, 2014

Title: *Intrinsic Images for Color Image Understanding*

Lecturer: Dr. Joost van de Weijer

Place: Hubert Curien Lab – Université Jean Monnet, St. Etienne (France)

Date: June 11, 2014

Title: *Combining Color and Shape for Object Recognition*

Lecturer: Dr. Joost van de Weijer

Place: Hubert Curien Lab – Université Jean Monnet, St. Etienne (France)

Date: June 18, 2014

Title: *Context-Aware Reading Systems*, in 3rd IDAKS Workshop

Lecturer: Dr. Josep Lladós

Place: Dresden (Germany)

Date: June 17-19, 2014

Title: *Propelling Research in Camera Based Scene Text Extraction: new Algorithms, Tools and Datasets*, in 3rd IDAKS Workshop

Lecturer: Lluís Gómez

Place: Dresden (Germany)

Date: June 17-19, 2014

Title: *Word spotting in historical manuscripts. The “Five Centuries of Marriages” project*, in Dagstuhl Seminar on Digital Paleography: New Machines and Old Texts.

Lecturer: Dr. Josep Lladós

Place: St. Wendel (Germany)

Date: July 2014

Title: *Virtual and Real World Adaptation for Pedestrian Detection*

Lecturer: Dr. Antonio M. López

Place: Xerox Research Centre Europe (XRCE)

Place: Meylan (France)

Date: July 9, 2014

Title: *Colloring Object Recognition* in XXXV Jornadas de Automática, Reunión Grupo Temático de Visión por Computador

Lecturer: Dr. Joost van der Weijer

Place: Valencia (Spain)

Date: September 4, 2014

Title: *Présentation du CVC*

Lecturer: Dr. Fernando Vilariño

Place: Laboratoire d’Informatique et Mathématiques, Université de Saint-Denis, La Réunion (France)

Date: October 9, 2014

Title: *Recognition of Historical Handwritten Documents: The Marriage Licenses Books of the Cathedral of Barcelona*

Lecturer: Dr. Alícia Fornés

Place: Department of Linguistics and Philology, Uppsala Univesitet (Sweden)

Date: October 31, 2014

Title: *Virtual Worlds for Training Real-World Visual Models.*

Lecturer: Dr. Antonio M. López

Place: National University of Defense Technology (NUDT), Changsha, China

Date: Novemer 7, 2014

Title: *Recognition of the Historical Marriage License Books of the Cathedral of Barcelona*

Lecturer: Dr. Alícia Fornés

Place: Centre for Image Analysis, Uppsala Universitet (Sweden)

Date: December 15, 2014

Title: *Introduction to graphical models*, in the Master CAD5

Lecturer: Dr. Oriol Ramos

Place: University of Tours (France)

Date: December 2014

8. Courses at CVC

Title: *Large-Scale Visual Recognition*, in Module 5 of the Master of Computer Vision

Lecturer: Dr. Florent Perronin, Xerox Research Centre Europe, Meylan (France)

Place: CVC, Bellaterra

Date: April 2, 2014

9. Invited Talks at CVC

Context, regularized expert stacking, and transductive inference for large-scale action recognition in video

Speaker: Dr. Andrew D. Bagdanov

Affiliation: Ramon y Cajal Fellow, CVC

Date: March 21, 2014

Motion Estimation Revisited: an Estimation-Theoretic Approach

Speaker: Prof. Rudolf Mester

Affiliation: VSI Lab, U. Frankfurt (Germany) and Computer Vision Laboratory, Linköping University (Sweden)

Date: March 28, 2014

Sequential Image Analysis for Computer-aided Wireless Endoscopy

Speaker: Michał Drożdżał

Affiliation: CVC & UB

Date: April 25, 2014

Visual Language Processing (VLP) of Ancient Manuscripts: Converting Collections to Windows on the Past

Speaker: Prof. Mohamed Cheriet

Affiliation: Synchronmedia and Livia Labs, École de Technologie Supérieure, Université du Québec (Canada)

Date: April 30, 2014

Studying Perceptual Tasks in Different Domains using Eye-Movements

Speaker: Prof. Tandra Ghose

Affiliation: German Institute of Artificial Intelligence – University of Kaiserslautern (Germany).

Date: May 9, 2014

Strong Geometric Context for Image Understanding

Speaker: Raúl Díaz

Affiliation: Computer Vision Group, UC Irvine, Irvine (California, USA)

Date: July 4, 2014

Unsign a deformation field model for localizing faces and facial points under weak supervision

Speaker: Dr. Marco Pedersoli

Affiliation: VISICS – KU Leuven, Leuven (Belgium)

Date: September 25, 2014

Automation of Flow Cytometric Analysis (Marie Curie Action)

Speaker: Prof. Martin Kampel

Affiliation: Vienna University of Technology, Vienna (Austria)

Date: September 26, 2014

A Polynomial Algorithm for HMM Decoding with long Distance Dependencies

Speaker: Dr. Volkmar Frinken

Affiliation: Kyushu University, Fukuoka, Japan

Date: October 17, 2014

Characteristics of Characters and Contexts of Texts: Several topics around Scene Texts

Speaker: Prof. Seiichi Uchida

Affiliation: Kyushu University, Fukuoka, Japan

Date: October 20, 2014

Scene Understanding in Videos: Segmentation, Tracking and Pose Estimation

Speaker: Dr. Karteek Alahari

Affiliation: Inria Grenoble – Rhône Alpes (France)

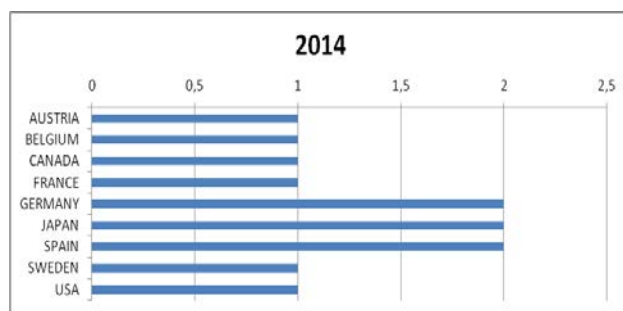
Date: October 20, 2014

Making Bertha See

Speaker: Uwe Franke

Affiliation: Head of Image Understanding – Daimler AG (Stuttgart, Germany)

Date: November 26, 2014



10. Publications

2.3 Books (9)

1. Anjan Dutta. (2014). *Inexact Subgraph Matching Applied to Symbol Spotting in Graphical Documents*. Ph.D. thesis, Ediciones Gráficas Rey.
2. Antonio Clavelli. (2014). *A computational model of eye guidance, searching for text in real scene images*. Ph.D. thesis, Ediciones Gráficas Rey.
3. Carles Sanchez. (2014). *Tracheal Structure Characterization using Geometric and Appearance Models for Efficient Assessment of Stenosis in Videobronchoscopy*. Ph.D. thesis, Ediciones Gráficas Rey.
4. David Fernandez. (2014). *Contextual Word Spotting in Historical Handwritten Documents*. Ph.D. thesis, Ediciones Gráficas Rey.
5. David Geronimo, & Antonio Lopez. (2014). *Vision-based Pedestrian Protection Systems for Intelligent Vehicles*. Springer Briefs in Computer Vision.
6. Jon Almazan. (2014). *Learning to Represent Handwritten Shapes and Words for Matching and Recognition*. Ph.D. thesis, Ediciones Gráficas Rey.
7. Lluís Pere de las Heras. (2014). *Relational Models for Visual Understanding of Graphical Documents. Application to Architectural Drawings*. Ph.D. thesis, Ediciones Gráficas Rey.
8. Michal Drozdal. (2014). *Sequential image analysis for computer-aided wireless endoscopy*. Ph.D. thesis, Ediciones Gráficas Rey.
9. Monica Piñol. (2014). *Reinforcement Learning of Visual Descriptors for Object Recognition*. Ph.D. thesis, Ediciones Gráficas Rey.

2.4 Book Chapters (14)

1. A.Kesidis, & Dimosthenis Karatzas. (2014). Logo and Trademark Recognition. In D. Doermann, & K. Tombre (Eds.), *Handbook of Document Image Processing and Recognition* (Vol. D, pp. 591–646). Springer London.
2. Alicia Fornes, & Gemma Sanchez. (2014). Analysis and Recognition of Music Scores. In K. T. D.Doermann (Ed.), *Handbook of Document Image Processing and Recognition* (Vol. E, pp. 749–774). Springer London.
3. Alicia Fornes, V.C.Kieu, M. Visani, N.Journet, & Anjan Dutta. (2014). The ICDAR/GREC 2013 Music Scores Competition: Staff Removal. In B.Lamiroy, & J.-M. Ogier (Eds.), *Graphics Recognition. Current Trends and Challenges* (Vol. 8746, pp. 207–220). LNCS. Springer Heidelberg.
4. Ariel Amato, Ivan Huerta, Mikhail Mozerov, Xavier Roca, & Jordi Gonzalez. (2014). Moving Cast Shadows Detection Methods for Video Surveillance Applications. In *Augmented Vision and Reality* (Vol. 6, pp. 23–47). Springer Berlin Heidelberg.
5. Carles Sanchez, Jorge Bernal, Debora Gil, & F. Javier Sanchez. (2014). On-line lumen centre detection in gastrointestinal and respiratory endoscopy. In Klaus Miguel Angel and Drechsler Stefan and González Ballester Raj and Wesarg Cristina and Shekhar M. G. and O. L. Marius and Lingurararu (Ed.), *Clinical Image-Based Procedures. Translational*

- Research in Medical Imaging* (Vol. 8361, pp. 31–38). LNCS. Springer International Publishing.
6. Carlos Alejandro Parraga. (2014). Color Vision, Computational Methods for. In Dieter Jaeger, & Ranu Jung (Eds.), *Encyclopedia of Computational Neuroscience* (pp. 1–11). Springer-Verlag Berlin Heidelberg.
 7. David Roche, Debora Gil, & Jesus Giraldo. (2014). Mathematical modeling of G protein-coupled receptor function: What can we learn from empirical and mechanistic models? In *G Protein-Coupled Receptors – Modeling and Simulation Advances in Experimental Medicine and Biology* (Vol. 796, pp. 159–181). Springer Netherlands.
 8. Josep Lladós, & Marçal Rusiñol. (2014). Graphics Recognition Techniques. In K. Tombre, & D. Doermann (Eds.), *Handbook of Document Image Processing and Recognition* (Vol. D, pp. 489–521). Springer London.
 9. Juan Ramon Terven Salinas, Joaquin Salas, & Bogdan Raducanu. (2014). Robust Head Gestures Recognition for Assistive Technology. In *Pattern Recognition* (Vol. 8495, pp. 152–161). LNCS. Springer International Publishing.
 10. Lluís Pere de las Heras, David Fernandez, Alicia Fornes, Ernest Valveny, Gemma Sanchez, & Josep Lladós. (2014). Runlength Histogram Image Signature for Perceptual Retrieval of Architectural Floor Plans. In *Graphics Recognition. Current Trends and Challenges* (pp. 135–146). LNCS. Springer Berlin Heidelberg.
 11. Lluís Pere de las Heras, Ernest Valveny, & Gemma Sanchez. (2014). Unsupervised and Notation-Independent Wall Segmentation in Floor Plans Using a Combination of Statistical and Structural Strategies. In *Graphics Recognition. Current Trends and Challenges* (pp. 109–121). LNCS. Springer Berlin Heidelberg.
 12. Maedeh Aghaei, & Petia Radeva. (2014). Bag-of-Tracklets for Person Tracking in Life-Logging Data. In *Artificial Intelligence Research and Development: Recent Advances and Applications* (Vol. 269, 35).
 13. Salvatore Tabbone, & Oriol Ramos Terrades. (2014). An Overview of Symbol Recognition. In K. T. David Doermann (Ed.), *Handbook of Document Image Processing and Recognition* (Vol. D, pp. 523–551). Springer London.
 14. Svebor Karaman, Giuseppe Lisanti, Andrew Bagdanov, & Alberto del Bimbo. (2014). From re-identification to identity inference: Labeling consistency by local similarity constraints. In *Person Re-Identification* (Vol. 2, pp. 287–307). Springer London.

2.5 Journals with Impact Factor (63)

1. Adriana Romero, Petia Radeva, & Carlo Gatta. (2014). Meta-parameter free unsupervised sparse feature learning. *IEEE Transactions on Pattern Analysis and Machine Intelligence, TPAMI*.
2. Albert Gordo, Florent Perronnin, Yunchao Gong, & Svetlana Lazebnik. (2014). Asymmetric Distances for Binary Embeddings. *IEEE Transactions on Pattern Analysis and Machine Intelligence, TPAMI*, 36(1), 33–47.
3. Antonio Clavelli, Dimosthenis Karatzas, Josep Lladós, Mario Ferraro, & Giuseppe Boccignone. (2014). Modelling task-dependent eye guidance to objects in pictures. *Cognitive Computation*, 6(3), 558–584.

4. Antonio Hernandez, Miguel Angel Bautista, Xavier Perez Sala, Victor Ponce, Sergio Escalera, Xavier Baro, et al. (2014). Probability-based Dynamic Time Warping and Bag-of-Visual-and-Depth-Words for Human Gesture Recognition in RGB-D. *Pattern Recognition Letters, PRL*, 50(1), 112–121.
5. Bogdan Raducanu, & Fadi Dornaika. (2014). Embedding new observations via sparse-coding for non-linear manifold learning. *Pattern Recognition, PR*, 47(1), 480–492.
6. C. Butakoff, Simone Balocco, F.M. Sukno, C. Hoogendoorn, C. Tobon-Gomez, G. Avegliano, et al. (2014). Left-ventricular Epi- and Endocardium Extraction from 3D Ultrasound Images Using an Automatically Constructed 3D ASM. *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*, 2(2).
7. Carlo Gatta, & Francesco Ciompi. (2014). Stacked Sequential Scale-Space Taylor Context. *IEEE Transactions on Pattern Analysis and Machine Intelligence, TPAMI*, 36(8), 1694–1700.
8. Carlos Alejandro Parraga, Jordi Roca, Dimosthenis Karatzas, & Sophie Wuerger. (2014). Limitations of visual gamma corrections in LCD displays. *Displays, Dis*, 35(5), 227–239.
9. Cesar Isaza, Joaquin Salas, & Bogdan Raducanu. (2014). Rendering ground truth data sets to detect shadows cast by static objects in outdoors. *Multimedia Tools and Applications, MTAP*, 70(1), 557–571.
10. David Fernandez, Josep Lladós, & Alicia Fornes. (2014). A graph-based approach for segmenting touching lines in historical handwritten documents. *International Journal on Document Analysis and Recognition, IJDAR*, 17(3), 293–312.
11. David Masip, Michael S. North, Alexander Todorov, & Daniel N. Osherson. (2014). Automated Prediction of Preferences Using Facial Expressions. *PloS One, Plos*, 9(2), e87434.
12. David Vazquez, Javier Marin, Antonio Lopez, Daniel Ponsa, & David Geronimo. (2014). Virtual and Real World Adaptation for Pedestrian Detection. *IEEE Transactions on Pattern Analysis and Machine Intelligence, TPAMI*, 36(4), 797–809.
13. Fahad Shahbaz Khan, Joost van de Weijer, Muhammad Anwer Rao, Michael Felsberg, & Carlo Gatta. (2014). Semantic Pyramids for Gender and Action Recognition. *IEEE Transactions on Image Processing, TIP*, 23(8), 3633–3645.
14. Fahad Shahbaz Khan, Shida Beigpour, Joost van de Weijer, & Michael Felsberg. (2014). Painting-91: A Large Scale Database for Computational Painting Categorization. *Machine Vision and Applications, MVAP*, 25(6), 1385–1397.
15. Francesco Ciompi, Oriol Pujol, & Petia Radeva. (2014). ECOC-DRF: Discriminative random fields based on error correcting output codes. *Pattern Recognition, PR*, 47(6), 2193–2204.
16. Francisco Blanco, Felipe Lumbreras, Joan Serrat, Roswitha Siener, Silvia Serranti, Giuseppe Bonifazi, et al. (2014). Taking advantage of Hyperspectral Imaging classification of urinary stones against conventional IR Spectroscopy. *Journal of Biomedical Optics*, 19(12), 126004–1 - 126004–9.
17. Frederic Sampedro, & Sergio Escalera. (2014). Spatial codification of label predictions in Multi-scale Stacked Sequential Learning: A case study on multi-class medical volume segmentation. *IET Computer Vision*.

18. Frederic Sampedro, Anna Domenech, & Sergio Escalera. (2014). Obtaining quantitative global tumoral state indicators based on whole-body PET/CT scans: A breast cancer case study. *Nuclear Medicine Communications*, 35(4), 362–371.
19. Frederic Sampedro, Anna Domenech, & Sergio Escalera. (2014). Static and dynamic computational cancer spread quantification in whole body FDG-PET/CT scans. *Journal of Medical Imaging and Health Informatics*, 4(6), 825–831.
20. Frederic Sampedro, Sergio Escalera, & Anna Puig. (2014). Iterative Multiclass Multiscale Stacked Sequential Learning: definition and application to medical volume segmentation. *Pattern Recognition Letters, PRL*, 46, 1–10.
21. G. Zahnd, Simone Balocco, A. Serusclat, P. Moulin, M. Orkisz, & D. Vray. (2014). Progressive attenuation of the longitudinal kinetics in the common carotid artery: preliminary in vivo assessment *Ultrasound in Medicine and Biology. Ultrasound in Medicine and Biology*, 41(1), 339–345.
22. Jaume Amores. (2014). MILDE: multiple instance learning by discriminative embedding. *Knowledge and Information Systems, KAIS*, 42(2), 381–407.
23. Javier Marin, David Vazquez, Antonio Lopez, Jaume Amores, & Ludmila I. Kuncheva. (2014). Occlusion handling via random subspace classifiers for human detection. *IEEE Transactions on Systems, Man, and Cybernetics (Part B), TSMCB*, 44(3), 342–354.
24. Jiaolong Xu, David Vazquez, Antonio Lopez, Javier Marin, & Daniel Ponsa. (2014). Learning a Part-based Pedestrian Detector in Virtual World. *IEEE Transactions on Intelligent Transportation Systems, TITS*, 15(5), 2121–2131.
25. Jiaolong Xu, Sebastian Ramos, David Vazquez, & Antonio Lopez. (2014). Domain Adaptation of Deformable Part-Based Models. *IEEE Transactions on Pattern Analysis and Machine Intelligence, TPAMI*, 36(12), 2367–2380.
26. Joan Marc Llargues Asensio, Juan Peralta, Raul Arrabales, Manuel Gonzalez Bedia, Paulo Cortes, & Antonio Lopez. (2014). Artificial Intelligence Approaches for the Generation and Assessment of Believable Human-Like Behaviour in Virtual Characters. *Expert Systems with Applications EXSY*, 41(16), 7281–7290.
27. Jon Almazan, Albert Gordo, Alicia Fornes, & Ernest Valveny. (2014). Segmentation-free Word Spotting with Exemplar SVMs. *Pattern Recognition, PR*, 47(12), 3967–3978.
28. Jon Almazan, Albert Gordo, Alicia Fornes, & Ernest Valveny. (2014). Word Spotting and Recognition with Embedded Attributes. *IEEE Transactions on Pattern Analysis and Machine Intelligence, TPAMI*, 36(12), 2552–2566.
29. Jorge Bernal. (2014). Polyp Localization and Segmentation in Colonoscopy Images by Means of a Model of Appearance for Polyps. *Electronic Letters on Computer Vision and Image Analysis, ELCVIA*, 13(2), 9–10.
30. Jose Manuel Alvarez, Antonio Lopez, Theo Gevers, & Felipe Lumberras. (2014). Combining Priors, Appearance and Context for Road Detection. *IEEE Transactions on Intelligent Transportation Systems, TITS*, 15(3), 1168–1178.
31. Juan Ramon Terven Salinas, Joaquin Salas, & Bogdan Raducanu. (2014). New Opportunities for Computer Vision-Based Assistive Technology Systems for the Visually Impaired. *Computer*, 47(4), 52–58.
32. Katerine Diaz, Francesc J. Ferri, & W. Diaz. (2014). Incremental Generalized Discriminative Common Vectors for Image Classification. *IEEE Transactions on Neural Networks and Learning Systems*.

33. Laura Igual, Xavier Perez Sala, Sergio Escalera, Cecilio Angulo, & Fernando De la Torre. (2014). Continuous Generalized Procrustes Analysis. *Pattern Recognition, PR*, 47(2), 659–671.
34. Lluís Pere de las Heras, Ahmed Sheraz, Marcus Liwicki, Ernest Valveny, & Gemma Sanchez. (2014). Statistical Segmentation and Structural Recognition for Floor Plan Interpretation. *International Journal on Document Analysis and Recognition, IJDAR*, 17(3), 221–237.
35. Lorenzo Seidenari, Giuseppe Serra, Andrew Bagdanov, & Alberto del Bimbo. (2014). Local pyramidal descriptors for image recognition. *IEEE Transactions on Pattern Analysis and Machine Intelligence, TPAMI*, 36(5), 1033–1040.
36. M. Olivera, Angel Sappa, & Victor Santos. (2014). A probabilistic approach for color correction in image mosaicking applications. *IEEE Transactions on Image Processing, TIP*, 23, 508–523.
37. Marçal Rusiñol, & Josep Lladós. (2014). Boosting the Handwritten Word Spotting Experience by Including the User in the Loop. *Pattern Recognition, PR*, 47(3), 1063–1072.
38. Marçal Rusiñol, Lluís Pere de las Heras, & Oriol Ramos Terrades. (2014). Flowchart Recognition for Non-Textual Information Retrieval in Patent Search. *Information Retrieval*, 17(5-6), 545–562.
39. Marçal Rusiñol, Volkmar Frinken, Dimosthenis Karatzas, Andrew Bagdanov, & Josep Lladós. (2014). Multimodal page classification in administrative document image streams. *International Journal on Document Analysis and Recognition, IJDAR*, 17(4), 331–341.
40. Marco Pedersoli, Jordi Gonzalez, Xu Hu, & Xavier Roca. (2014). Toward Real-Time Pedestrian Detection Based on a Deformable Template Model. *IEEE Transactions on Intelligent Transportation Systems, TITS*, 15(1), 355–364.
41. Miguel Angel Bautista, Sergio Escalera, & Oriol Pujol. (2014). On the Design of an ECOC-Compliant Genetic Algorithm. *Pattern Recognition, PR*, 47(2), 865–884.
42. Miguel Oliveira, Victor Santos, & Angel Sappa. (2014). Multimodal Inverse Perspective Mapping. *Information Fusion*, 24, 108–121.
43. Mohammad ali Bagheri, Qigang Gao, & Sergio Escalera. (2014). Combining Local and Global Learners in the Pairwise Multiclass Classification. *Pattern Analysis and Applications, PAA*.
44. Mohammad Rouhani, Angel Sappa, & E. Boyer. (2014). Implicit B-Spline Surface Reconstruction. *IEEE Transactions on Image Processing, TIP*, 22–32.
45. Naveen Onkarappa, & Angel Sappa. (2014). Speed and Texture: An Empirical Study on Optical-Flow Accuracy in ADAS Scenarios. *IEEE Transactions on Intelligent Transportation Systems, TITS*, 15(1), 136–147.
46. Noha Elfiky, Theo Gevers, Arjan Gijsenji, & Jordi Gonzalez. (2014). Color Constancy using 3D Scene Geometry derived from a Single Image. *IEEE Transactions on Image Processing, TIP*, 23(9), 3855–3868.
47. Onur Ferhat, Fernando Vilariño, & F. Javier Sanchez. (2014). A cheap portable eye-tracker solution for common setups. *Journal of Eye Movement Research*, 7(3), 1–10.

48. Oscar Lopes, Miguel Reyes, Sergio Escalera, & Jordi Gonzalez. (2014). Spherical Blurred Shape Model for 3-D Object and Pose Recognition: Quantitative Analysis and HCI Applications in Smart Environments. *IEEE Transactions on Systems, Man, and Cybernetics (Part B), TSMCB*, (99), 1.
49. P. Ricaurte, C. Chilan, Cristhian A. Aguilera-Carrasco, B. Vintimilla, & Angel Sappa. (2014). Feature Point Descriptors: Infrared and Visible Spectra. *Sensors, SENS*, 14(2), 3690–3701.
50. Palaiahnakote Shivakumara, Anjan Dutta, Chew Lim Tan, & Umapada Pal. (2014). Multi-oriented scene text detection in video based on wavelet and angle projection boundary growing. *Multimedia Tools and Applications, MTAP*, 72(1), 515–539.
51. Pedro Martins, Paulo Carvalho, & Carlo Gatta. (2014). Context-aware features and robust image representations. *Journal of Visual Communication and Image Representation*, 25(2), 339–348.
52. Pierluigi Casale, Oriol Pujol, & Petia Radeva. (2014). Approximate polytope ensemble for one-class classification. *Pattern Recognition, PR*, 47(2), 854–864.
53. Santiago Segui, Michal Drozdal, Ekaterina Zaytseva, Fernando Azpiroz, Petia Radeva, & Jordi Vitria. (2014). Detection of wrinkle frames in endoluminal videos using betweenness centrality measures for images. *IEEE Transactions on Information Technology in Biomedicine*, 18(6), 1831–1838.
54. Shida Beigpour, Christian Riess, Joost van de Weijer, & Elli Angelopoulou. (2014). Multi-Illuminant Estimation with Conditional Random Fields. *IEEE Transactions on Image Processing, TIP*, 23(1), 83–95.
55. Simeon Petkov, Xavier Carrillo, Petia Radeva, & Carlo Gatta. (2014). Diaphragm border detection in coronary X-ray angiographies: New method and applications. *Computerized Medical Imaging and Graphics, CMIG*, 38(4), 296–305.
56. Simone Balocco, Carlo Gatta, Francesco Ciompi, A. Wahle, Petia Radeva, S. Carlier, et al. (2014). Standardized evaluation methodology and reference database for evaluating IVUS image segmentation. *Computerized Medical Imaging and Graphics, CMIG*, 38(2), 70–90.
57. Svebor Karaman, Andrew Bagdanov, Lea Landucci, Gianpaolo D'Amico, Andrea Ferracani, Daniele Pezzatini, et al. (2014). Personalized multimedia content delivery on an interactive table by passive observation of museum visitors. *Multimedia Tools and Applications, MTAP*.
58. Svebor Karaman, Giuseppe Lisanti, Andrew Bagdanov, & Alberto del Bimbo. (2014). Leveraging local neighborhood topology for large scale person re-identification. *Pattern Recognition, PR*, 47(12), 3767–3778.
59. T. Mouats, N. Aouf, Angel Sappa, Cristhian A. Aguilera-Carrasco, & Ricardo Toledo. (2014). Multi-Spectral Stereo Odometry. *IEEE Transactions on Intelligent Transportation Systems, TITS*, 1–15.
60. T.Chauhan, E.Perales, Kaida Xiao, E.Hird, Dimosthenis Karatzas, & Sophie Wuerger. (2014). The achromatic locus: Effect of navigation direction in color space. *Journal of Vision, VSS*, 14(1), 1–11.

61. Thierry Brouard, Jordi Gonzalez, Caifeng Shan, Massimo Piccardi, & Larry S. Davis. (2014). Special issue on background modeling for foreground detection in real-world dynamic scenes. *Machine Vision and Applications*, 25(5), 1101–1103.
62. Volkmar Frinken, Andreas Fischer, Markus Baumgartner, & Horst Bunke. (2014). Keyword spotting for self-training of BLSTM NN based handwriting recognition systems. *Pattern Recognition, PR*, 47(3), 1073–1082.
63. Xavier Perez Sala, Sergio Escalera, Cecilio Angulo, & Jordi Gonzalez. (2014). A survey on model based approaches for 2D and 3D visual human pose recovery. *Sensors, SENS*, 14(3), 4189–4210.

2.6 International Conferences (61)

1. A.Ruiz, Joost van de Weijer, & Xavier Binefa. (2014). Regularized Multi-Concept MIL for weakly-supervised facial behavior categorization. In *25th British Machine Vision Conference*.
2. Adriana Romero, Carlo Gatta, & Gustavo Camps-Valls. (2014). Unsupervised Deep Feature Extraction Of Hyperspectral Images. In *6th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing*.
3. Agata Lapedriza, David Masip, & D.Sanchez. (2014). Emotions Classification using Facial Action Units Recognition. In *17th International Conference of the Catalan Association for Artificial Intelligence* (pp. 55–64).
4. Alejandro Tabas, Emili Balaguer-Ballester, & Laura Igual. (2014). Spatial Discriminant ICA for RS-fMRI characterisation. In *4th International Workshop on Pattern Recognition in Neuroimaging* (pp. 1–4).
5. Alicia Fornes, Josep Lladós, Joan Mas, J.M. Pujades, & Ana Cabre. (2014). A Bimodal Crowdsourcing Platform for Demographic Historical Manuscripts. In *In Digital Access to Textual Cultural Heritage Conference* (pp. 103–108).
6. Antonio Hernandez, Stan Sclaroff, & Sergio Escalera. (2014). Contextual rescoring for Human Pose Estimation. In *25th British Machine Vision Conference*.
7. Ariel Amato, Felipe Lumbreras, & Angel Sappa. (2014). A General-purpose Crowdsourcing Platform for Mobile Devices. In *9th International Conference on Computer Vision Theory and Applications* (Vol. 3, pp. 211–215).
8. B. Zhou, Agata Lapedriza, J. Xiao, A. Torralba, & A. Oliva. (2014). Learning Deep Features for Scene Recognition using Places Database. In *28th Annual Conference on Neural Information Processing Systems*.
9. Bogdan Raducanu, Alireza Bosaghzadeh, & Fadi Dornaika. (2014). Facial Expression Recognition based on Multi-view Observations with Application to Social Robotics. In *1st Workshop on Computer Vision for Affective Computing* (pp. 1–8).
10. Carles Sanchez, Oriol Ramos Terrades, Patricia Marquez, Enric Marti, Jaume Rocarias, & Debora Gil. (2014). Evaluación automática de prácticas en Moodle para el aprendizaje autónomo en Ingenierías. In *8th International Congress on University Teaching and Innovation*.
11. Carlo Gatta, Adriana Romero, & Joost van de Weijer. (2014). Unrolling loopy top-down semantic feedback in convolutional deep networks. In *Workshop on Deep Vision: Deep Learning for Computer Vision* (pp. 498–505).

12. Christophe Rigaud, & Clement Guerin. (2014). Localisation contextuelle des personnages de bandes dessinées. In *Colloque International Francophone sur l'Écrit et le Document*.
13. Christophe Rigaud, Dimosthenis Karatzas, Jean-Christophe Burie, & Jean-Marc Ogier. (2014). Color descriptor for content-based drawing retrieval. In *11th IAPR International Workshop on Document Analysis and Systems* (pp. 267–271).
14. Claudio Baecci, Francesco Turchini, Lorenzo Seidenari, Andrew Bagdanov, & Alberto del Bimbo. (2014). Fisher vectors over random density forest for object recognition. In *22nd International Conference on Pattern Recognition*.
15. Clement Guerin, Christophe Rigaud, Karell Bertet, Jean-Christophe Burie, Arnaud Revel, & Jean-Marc Ogier. (2014). Réduction de l'espace de recherche pour les personnages de bandes dessinées. In *19th National Congress Reconnaissance de Formes et L'Intelligence Artificielle*.
16. David Fernandez, Jon Almazan, Nuria Cirera, Alicia Fornes, & Josep Lladós. (2014). BH2M: the Barcelona Historical Handwritten Marriages database. In *22nd International Conference on Pattern Recognition* (pp. 256–261).
17. David Fernandez, Pau Riba, Alicia Fornes, & Josep Lladós. (2014). On the Influence of Key Point Encoding for Handwritten Word Spotting. In *14th International Conference on Frontiers in Handwriting Recognition* (pp. 476–481).
18. David Fernandez, R.Manmatha, Josep Lladós, & Alicia Fornes. (2014). Sequential Word Spotting in Historical Handwritten Documents. In *11th IAPR International Workshop on Document Analysis Systems* (pp. 101–105).
19. Dimosthenis Karatzas, Sergi Robles, & Lluís Gomez. (2014). An on-line platform for ground truthing and performance evaluation of text extraction systems. In *11th IAPR International Workshop on Document Analysis and Systems* (pp. 242–246).
20. E. Bondi, L. Sidenari, Andrew Bagdanov, & Alberto del Bimbo. (2014). Real-time people counting from depth imagery of crowded environments. In *11th IEEE International Conference on Advanced Video and Signal based Surveillance* (pp. 337–342).
21. Eloi Puertas, Miguel Angel Bautista, Daniel Sanchez, Sergio Escalera, & Oriol Pujol. (2014). Learning to Segment Humans by Stacking their Body Parts,. In *ECCV Workshop on ChaLearn Looking at People*.
22. Enric Martí, Antoni Gurgui, Debora Gil, Aura Hernandez-Sabate, Jaume Rocarias, & Ferran Poveda. (2014). ABP on line: Seguimiento, entregas y evaluación en aprendizaje basado en proyectos. In *8th International Congress on University Teaching and Innovation*.
23. Fahad Shahbaz Khan, Joost van de Weijer, Andrew Bagdanov, & Michael Felsberg. (2014). Scale Coding Bag-of-Words for Action Recognition. In *22nd International Conference on Pattern Recognition*.
24. Federico Bartoli, Giuseppe Lisanti, Svebor Karaman, Andrew Bagdanov, & Alberto del Bimbo. (2014). Unsupervised scene adaptation for faster multi-scale pedestrian detection. In *22nd International Conference on Pattern Recognition*.
25. Francesco Brughi, Debora Gil, Llorenç Badiella, Eva Jove Casabella, & Oriol Ramos Terrades. (2014). Exploring the impact of inter-query variability on the performance of retrieval systems. In *11th International Conference on Image Analysis and Recognition* (Vol. 8814, pp. 413–420). LNCS. Springer International Publishing.

26. Francisco Cruz, & Oriol Ramos Terrades. (2014). EM-Based Layout Analysis Method for Structured Documents. In *22nd International Conference on Pattern Recognition* (pp. 315–320).
27. G. Villalonga, Sebastian Ramos, German Ros, David Vazquez, & Antonio Lopez. (2014). 3d Pedestrian Detection via Random Forest. In *13th European Conference on Computer Vision*.
28. Hongxing Gao, Marçal Rusiñol, Dimosthenis Karatzas, & Josep Lladós. (2014). Embedding Document Structure to Bag-of-Words through Pair-wise Stable Key-regions. In *22nd International Conference on Pattern Recognition*.
29. Hongxing Gao, Marçal Rusiñol, Dimosthenis Karatzas, & Josep Lladós. (2014). Fast Structural Matching for Document Image Retrieval through Spatial Databases. In *Document Recognition and Retrieval XXI* (Vol. 9021).
30. Jiaolong Xu, Sebastian Ramos, David Vazquez, & Antonio Lopez. (2014). Incremental Domain Adaptation of Deformable Part-based Models. In Tony Andrew and Pridmore M. and F. Valstar (Ed.), *25th British Machine Vision Conference*. BMVA Press.
31. Jiaolong Xu, Sebastian Ramos, David Vazquez, & Antonio Lopez. (2014). Cost-sensitive Structured SVM for Multi-category Domain Adaptation. In *22nd International Conference on Pattern Recognition* (pp. 3886–3891). IEEE.
32. Joan Arnedo-Moreno, D. Bañeres, Xavier Baro, S. Caballe, S. Guerrero, L. Porta, et al. (2014). Va-ID: A trust-based virtual assessment system. In *6th International Conference on Intelligent Networking and Collaborative Systems* (pp. 328–335).
33. Joan M. Nuñez, Jorge Bernal, Miquel Ferrer, & Fernando Vilariño. (2014). Impact of Keypoint Detection on Graph-based Characterization of Blood Vessels in Colonoscopy Videos. In *CARE workshop*.
34. Jorge Bernal, Debora Gil, Carles Sanchez, & F. Javier Sanchez. (2014). Discarding Non Informative Regions for Efficient Colonoscopy Image Analysis. In *1st MICCAI Workshop on Computer-Assisted and Robotic Endoscopy* (Vol. 8899). LNCS. Springer International Publishing.
35. Jorge Bernal, Fernando Vilariño, F. Javier Sanchez, M. Arnold, Anarta Ghosh, & Gerard Lacey. (2014). Experts vs Novices: Applying Eye-tracking Methodologies in Colonoscopy Video Screening for Polyp Search. In *2014 Symposium on Eye Tracking Research and Applications* (pp. 223–226).
36. Jorge Bernal, Joan M. Nuñez, F. Javier Sanchez, & Fernando Vilariño. (2014). Polyp Segmentation Method in Colonoscopy Videos by means of MSA-DOVA Energy Maps Calculation. In *3rd MICCAI Workshop on Clinical Image-based Procedures: Translational Research in Medical Imaging*.
37. Lluís Gomez, & Dimosthenis Karatzas. (2014). MSER-based Real-Time Text Detection and Tracking. In *22nd International Conference on Pattern Recognition* (pp. 3110–3115).
38. Lluís Gomez, & Dimosthenis Karatzas. (2014). Scene Text Recognition: No Country for Old Men? In *1st International Workshop on Robust Reading*.
39. M. Danelljan, Fahad Shahbaz Khan, Michael Felsberg, & Joost van de Weijer. (2014). Adaptive color attributes for real-time visual tracking. In *27th IEEE Conference on Computer Vision and Pattern Recognition*.

40. Marçal Rusiñol, J. Chazalon, & Jean-Marc Ogier. (2014). Combining Focus Measure Operators to Predict OCR Accuracy in Mobile-Captured Document Images. In *11th IAPR International Workshop on Document Analysis and Systems* (pp. 181–185).
41. Marçal Rusiñol, J. Chazalon, & Jean-Marc Ogier. (2014). Normalisation et validation d'images de documents capturées en mobilité. In *Colloque International Francophone sur l'Écrit et le Document* (pp. 109–124).
42. Marc Bolaños, Maite Garolera, & Petia Radeva. (2014). Video Segmentation of Life-Logging Videos. In *8th Conference on Articulated Motion and Deformable Objects*.
43. Marc Serra, Olivier Penacchio, Robert Benavente, Maria Vanrell, & Dimitris Samaras. (2014). The Photometry of Intrinsic Images. In *27th IEEE Conference on Computer Vision and Pattern Recognition* (pp. 1494–1501).
44. Michal Drozdal, Jordi Vitria, Santiago Segui, Carolina Malagelada, Fernando Azpiroz, & Petia Radeva. (2014). Intestinal event segmentation for endoluminal video analysis. In *21st IEEE International Conference on Image Processing*.
45. Mohammad ali Bagheri, Gang Hu, Qigang Gao, & Sergio Escalera. (2014). A Framework of Multi-Classifer Fusion for Human Action Recognition. In *22nd International Conference on Pattern Recognition* (pp. 1260–1265).
46. Mohammad ali Bagheri, Qigang Gao, & Sergio Escalera. (2014). Generic Subclass Ensemble: A Novel Approach to Ensemble Classification. In *22nd International Conference on Pattern Recognition* (pp. 1254–1259).
47. Mohammad Rouhani, E. Boyer, & Angel Sappa. (2014). Non-Rigid Registration meets Surface Reconstruction. In *International Conference on 3D Vision*.
48. Naveen Onkarappa, Cristhian A. Aguilera-Carrasco, B. Vintimilla, & Angel Sappa. (2014). Cross-spectral Stereo Correspondence using Dense Flow Fields. In *9th International Conference on Computer Vision Theory and Applications* (Vol. 3, pp. 613–617).
49. Oualid M. Benkarim, Petia Radeva, & Laura Igual. (2014). Label Consistent Multiclass Discriminative Dictionary Learning for MRI Segmentation. In *8th Conference on Articulated Motion and Deformable Objects* (Vol. 8563, pp. 138–147). LNCS. Springer International Publishing.
50. P. Ricaurte, C. Chilan, Cristhian A. Aguilera-Carrasco, B. Vintimilla, & Angel Sappa. (2014). Performance Evaluation of Feature Point Descriptors in the Infrared Domain. In *9th International Conference on Computer Vision Theory and Applications* (pp. 545–550).
51. P. Wang, V. Eglin, C. Garcia, C. Largeron, Josep Lladós, & Alicia Fornes. (2014). A Coarse-to-Fine Word Spotting Approach for Historical Handwritten Documents Based on Graph Embedding and Graph Edit Distance. In *22th International Conference on Pattern Recognition* (pp. 3074–3079).
52. P. Wang, V. Eglin, C. Garcia, C. Largeron, Josep Lladós, & Alicia Fornes. (2014). A Novel Learning-free Word Spotting Approach Based on Graph Representation. In *11th IAPR International Workshop on Document Analysis Systems* (pp. 207–211).
53. P. Wang, V. Eglin, C. Garcia, C. Largeron, Josep Lladós, & Alicia Fornes. (2014). Représentation par graphe de mots manuscrits dans les images pour la recherche par similarité. In *Colloque International Francophone sur l'Écrit et le Document* (pp. 233–248).
54. Patricia Marquez, Debora Gil, R.Mester, & Aura Hernandez-Sabate. (2014). Local Analysis of Confidence Measures for Optical Flow Quality Evaluation. In *9th International Conference on Computer Vision Theory and Applications* (pp. 450–457).

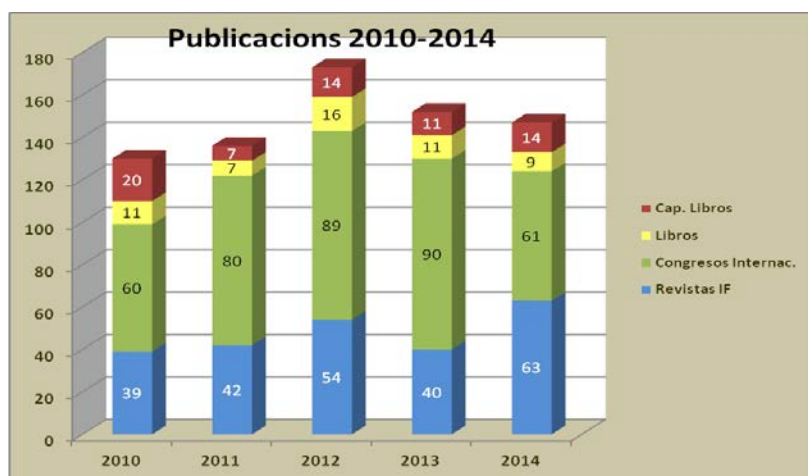
55. Patricia Marquez, H. Kause, A. Fuster, Aura Hernandez-Sabate, L. Florack, Debora Gil, et al. (2014). Factors Affecting Optical Flow Performance in Tagging Magnetic Resonance Imaging. In *17th International Conference on Medical Image Computing and Computer Assisted Intervention*. LNCS. Springer International Publishing.
56. Pau Riba, Jon Almazan, Alicia Fornes, David Fernandez, Ernest Valveny, & Josep Lladós. (2014). e-Crowds: a mobile platform for browsing and searching in historical demography-related manuscripts. In *14th International Conference on Frontiers in Handwriting Recognition* (pp. 228–233).
57. Q. Xue, Laura Igual, A. Berenguel, M. Guerrieri, & L. Garrido. (2014). Active Contour Segmentation with Affine Coordinate-Based Parametrization. In *9th International Conference on Computer Vision Theory and Applications*.
58. Sergio Escalera, Xavier Baro, Jordi Gonzalez, Miguel Angel Bautista, Meysam Madadi, Miguel Reyes, et al. (2014). ChaLearn Looking at People Challenge 2014: Dataset and Results. In *ChaLearn Looking at People Workshop*.
59. Sergio Vera, Debora Gil, & Miguel Angel Gonzalez. (2014). Anatomical parameterization for volumetric meshing of the liver. In *SPIE – Medical Imaging* (Vol. 9036).
60. T. H. Do, Salvatore Tabbone, & Oriol Ramos Terrades. (2014). Spotting Symbol Using Sparsity over Learned Dictionary of Local Descriptors. In *11th IAPR International Workshop on Document Analysis Systems* (pp. 156–160).
61. Xavier Perez Sala, Fernando De la Torre, Laura Igual, Sergio Escalera, & Cecilio Angulo. (2014). Subspace Procrustes Analysis. In *ECCV Workshop on ChaLearn Looking at People*.

2.7 Miscellanea (4)

1. Antonio Esteban Lansaque. (2014). *3D reconstruction and recognition using structured light* (Vol. 179). Master's thesis.
2. Cristhian A. Aguilera-Carrasco. (2014). *Evaluation of feature detectors and descriptors in VISIBLE-LWIR cross-spectral imaging* (Vol. 177). Master's thesis.
3. Ricard Balague. (2014). *Exploring the combination of color cues for intrinsic image decomposition* (Vol. 178). Master's thesis.
4. Sebastian Ramos. (2014). *Vision-based Detection of Road Hazards for Autonomous Driving*. Master's thesis.

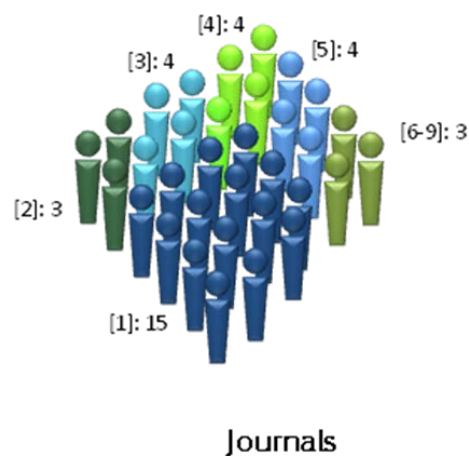
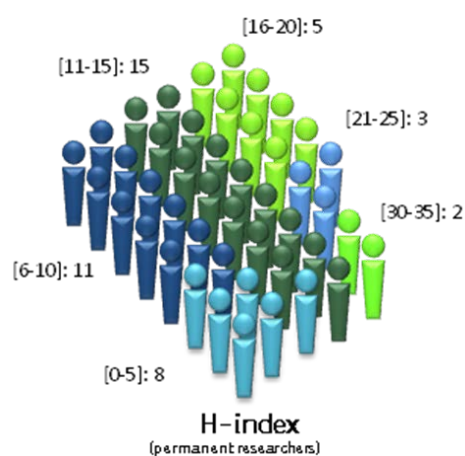
11. Fact Sheet - Publications

Publications	Number
IF Journals	63
International Conferences	61
Book Chapters	14
Books	9
Miscellanea	4
Total	151



Postdoc Research profile:

- Professor titular
- 40 years-old
- h-index: 16



12. Organization of Conferences, Workshops and other research and dissemination activities

2014 ChaLearn Looking at People: pose recovery, action/interaction, gesture recognition, in conjunction with ECCV 2014

Workshop Co-chairs: **Dr. Sergio Escalera**, **Dr. Jordi González**, **Dr. Xavier Baró**, Dr. Isabelle Guyon, Dr. Jamie Shotton

Place: Zürich (Switzerland)

Dates: September 6-7, 2014

TASK-CV – Transferring and Adapting Source Knowledge in Computer Vision, in conjunction with ECCV 2014

Workshop Co-chairs: **Dr. Antonio M. López**, Dr. Kate Saenko, Dr. Francesco Orabona, Dr. José Antonio Rodríguez, **Dr. David Vázquez**, **Sebastián Ramos**, **Jiaolong Xu**

Place: Zürich (Switzerland)

Dates: September 12, 2014

CVVT:E2M - 5th International Workshop on Computer Vision in Vehicle Technology, in conjunction with ECCV 2014

Workshop Co-chairs: Dr. Antonio López, Dr. David Vázquez, Sebastián Ramos

Place: Zürich (Switzerland)

Dates:

IWWR 2014 – 1st International Workshop on Robust Reading, in conjunction with ACCV 2014

Workshop Co-chairs: Dr. Masakazu Iwamura, **Dr. Dimosthenis Karatzas**, Dr. Faisal Shafait, Dr. Pramond Sandkar Kompalli

Place: National University of Singapore

Dates: November 2, 2014

SUAS – Scene Understanding for Autonomous Systems, in conjunction with ACCV 2014

Workshop Co-chairs: **Sebastian Ramos**, Dr. Raquel Urtasun, Dr. Antonio Torralba, Dr. Nick Barnes, Dr. MarkusENZWEILER, **Dr. David Vázquez** and **Dr. Antonio M. López**

Place: National University of Singapore

Dates: November 2, 2014

Session on Digitalització, Estudi i Gestió del Patrimoni Documental in Divendres de Patrimoni Cultural a la UAB – CORE en Patrimoni Cultural de la UABCeI

Participants: **Dimos Karatzas** and **Fernando Vilariño** from CVC; Elena Fernández from Grup de Manuscrits (Dept. d'Història Moderna i Contemporània - UAB); Biblioteca d'Humanitats – UAB; Remei Perpinyà from Escola Superior d'Arxivística i Gestió Documental; Francesc Cortés and Jordi Roquer from Grup de Recerca MUSC (Dept. D'Història de l'Art i Musicologia – UAB); and Antoni Iglesias from Grup de Recerca Chartae (Dept. de Ciències de l'Antiguitat i de l'Edat Mitjana – UAB).

Date: June 13, 2014

CVCRD 2014. Ninth CVC Workshop on Computer Vision. Trends and Challenges.

Place: CVC

Date: July 11, 2014

1a Trobada Anual en Visió per Computador (Annual Catalan Meeting in Computer Vision – ACMCV 2014)

Meeting Chairs: X. Binefa (UPF), Verónica Vilaplana (UPC), David Masip (UOC) and Maria Vanrell (CVC-UAB)

Organizing Chairs: David Vázquez (CVC), Ramon Morros (UPC) and Javier Vázquez (UPF)

Place: CVC

Date: September 10, 2014

Visit Escola Salesians de Sarrià in ESCOLAB, Programa Barcelona Ciència - Institut de Cultura and Programa de Cultura Científica de l'Institut d'Educació de l'Ajuntament de Barcelona.

Date: 19/02/2014

Visit Escola Sant Gervasi – Mollet del Vallès, in ESCOLAB, Programa Barcelona Ciència - Institut de Cultura and Programa de Cultura Científica de l'Institut d'Educació de l'Ajuntament de Barcelona.

Date: 26/02/2014

Visit UNED. 17 students of Computer Science of Uned visit the CVC.

Date: 18/03/2014

Visit school

Date: 20/03/2014

Visit students of Ecole Nationale Supérieure d'Ingénieurs de Limoges

Date: 21/03/2014

Visit IES Vall de Tenes – Santa Eulàlia de Ronçana, in ESCOLAB, Programa Barcelona Ciència - Institut de Cultura and Programa de Cultura Científica de l'Institut d'Educació de l'Ajuntament de Barcelona.

Date: 26/03/2014

13. Awards

Google Research Award – Summer 2014

Dr. Fernando Vilariño, in the Physical interactions with devices area.

Google Summer of Code - GSoC 2014I

Jiaolong Xu, for the project “Large-scale structured prediction with approximate inference”

Google Summer of Code - GSoC 2014I

Lluís Gómez Bigordà, for the project “Improve and expand Scene text detection module in Open CV”

Honourable Mention in VIII Conference on Articulated Motion and Deformable Objects – AMDO 2014

Dr. Laura Igual, for the paper “Multiclass Dictionary Learning for MRI Segmentation”

Place: Palma de Mallorca

Dates: July 16-18, 2014

3rd Best paper award in 1st Workshop on Computer Assisted and Robotic Endoscopy – CARE, held in conjunction with 17th International Conference on Medical Image Computing and Computer-Assisted Intervention – MICCAI 2014

Dr. Jorge Bernal, Dr. Debora Gil, Dr. Carles Sánchez and Dr. F. Javier Sánchez, for the paper “Discarding non Informative Regions for Efficient Colonoscopy Image Analysis”

Place: Boston (USA)

Dates: September 18-19, 2014

Pioner Award (Institució CERCA) for PhD theses with commercial or industrial interest

Dr. David Vázquez, for the thesis “Domain Adaptation of Virtual and Real Words for Pedestrian Detection.”

Place: Barcelona

Date: December 2014

ICREA Academia Award 2014

Dr. Petia Radeva, Milab Group, in the Technology and Engineering area.

Date: December 2014