Joan Massich

Developer, Research fellow

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jmassich

Born 15 March 1984



This is how I did it Anton. I never saved anything for the swim back. (Gattaca, 1997)

Experience

Dec. 2015 - Sep. 2016 **Associate Professor**, Le2i - Laboratorie Electronique, Informatique et Image UMR CNRS 6306 at IUT Dijon, Dijon

Dec. 2013 - Dec. 2015 **Postdoctoral fellow**, Le2i - Laboratorie Electronique, Informatique et Image UMR CNRS 6306 at IUT Le Creusot, Le Creusot

Oct. 2009 - Dec. 2013 Research assistant, ViCOROB - Computer Vision and Robotics group at University of Girona, Girona

June 2009 - Oct. 2009 Research assistant, Applied Vision Laboratory (AVL) at Texas Tech University (TTU), Lubbock

Dec. 2003 – June 2009 Research assistant, ViCOROB - Computer Vision and Robotics group at University of Girona, Girona

Education

Oct. 2009 - Dec. 2013 PhD in Computer Vision

Universitat de Girona, Girona, Catalonia.

Université de Bourgogne, Le Creusot, France. title: Deformable object segmentation in ultrasound images.

grade: Unanimity excellent with honors.

Sept. 2007 - June 2009 Erasmus Mundus Master Course on Computer Vision and Robotics (VIBOT)

Heriot-Watt University, Edinburgh, Scothland.

Universitat de Girona, Girona, Catalonia.

Université de Bourgogne, Le Creusot, France.

Autonomous Robots, Fundamentals on Robotics, Visual Perception, Real-time Image Processing, Scene Segmentation and Interpretation, Software Engineering, Image processing, Digital Signal Processing, Data Mining and Machine Learning, Medical Imaging, Shape Recognition Statistics, Infrared Imagery, Image Analysis.

grade: 8.1 over 10

Sept. 2005 - Sept. 2007 Computer Science Engineering,

Universitat de Girona, Girona, Catalonia

Software Engineering, Computer Networks, Compilers, Computer Architecture, Numeric Methods, Economy, Production Systems, Computer Vision, Statistics, User Interfaces, Security. grade: 7.7 over 10

${\color{red} {\sf Sept.\,2002-Sept.\,2005}} \textbf{Technical Engineering in Computer Systems,}$

Universitat de Girona, Girona, Catalonia

Algorithms, Computer Architecture, Electronics, Digital Circuits, Database Systems, Computer Vision, Robotics, Software Engineering, Computer Networks, Operating Systems, Discrete Structures, Probability and Statistics, Digital Logic, Control Systems, VLSI Design, Artificial Intelligence. grade: 6.9 over 10

PhD Thesis

title Deformable object segmentation in ultra-sound images.

supervisors Joan Martí and Prof. Fabrice Meriaudeau

description This thesis is devoted to automatic segmentation of breast lesions in ultrasound images, since this task is key for the development of robust Computer Aided Diagnosis (CAD) systems applied to this organ and image modality. The proposed segmentation strategy divides the images into meaningful regions called super-pixels and labels them using a minimization framework that takes into account training and regularization.

Technical Skills

Programming Python, C++, Matlab

Languages

Technologies Git, Travis, CMake, LATEX, Vim, Emacs

Operating Linux (Gentoo)

Sytem

Languages

Catalan IRL 5 Mother tonge

Mother tonge

Spanish IRL 5
English IRL 4-5

French IRL 3-4

Publications

Medical Image Analysis

2016

Alsaih, Khaled, Guillaume Lemaître, Joan Massich, Mojdeh Rastgoo, Désiré Sidibé, Tien Y Wong, Ecosse Lamoureux, Dan Milea, Carol Y Cheung, and Fabrice Mériaudeau, "Classification of SD-OCT volumes with multi pyramids, LBP and HOG descriptors: application to DME detections". In: 38th IEEE Engineering in Medicine and Biology Society (EMBC).

2016

Lemaitre, Guillaume, Mojdeh Rastgoo, Joan Massich, Joan C. Vilanoma, Paul M. Walker, Jordi Freixenet, Anke Meyer-Baese, Robert Martí, and Fabrice Meriaudeau, "Normalization of T2W-MRI Prostate Images using Rician a priori". English. In: SPIE Medical Imaging 2016, pp. 978529–978529.

2016

Massich, Joan, Mojdeh Rastgoo, Guillaume Lemaitre, Carol Cheung, Tien Y Wong, Desire Sidibe, and Fabrice Meriaudeau, "Classifying DME vs normal SD-OCT volumes: A review". English. In: 23rd International Conference on Pattern Recognition (ICPR).





Hernàndez, Emili, Pere Ridao, Marc Carreras, David Ribas, Narcís Palomeras, Andrés El-fakdi, Francois Chung, Xavier Ribas, Guillermo García de Marina, Natalia Hurtós, Joan Massich, Antonio Almohaya, and Josep Vila, "ICTINEU AUV, un Robot per a Competir". Catalan. In: Artificial Intelligence Research and Development, Proceedings of the 9th International Conference of the ACIA, CCIA 2006. Ed. by Monique Polit, Thierry Talbert, Beatriz López, and Joaquím Meléndez.

course (EMMc VIBOT).



Ribas, David, Narcís Palomeras, Xavier Ribas, Guillermo García de Marina, Emili Hernández, Francois Chung, Natalia Hurtós, Joan Massich, Antonio Almohaya, Josep Vila, and Andrés El-fakdi, ICTINEU AUV Takes the Challenge. Research rep. Universitat de Girona Girona, Catalonia

Education

2014

Ligusova, Jana, Nina Bencheva, Jean-Marc Thiriet, Gert Jervan, and Massich Joan, "Reflections about the integration of global challenges into higher education future programs: application in the field of ICT security". In: Proceedings of ITHET 2014. 13th International Conference on Information Technology Based Higher Education and Training.

2012

Cufí, Xevi, Miquel Villanueva, Andrés ElFakdi, Joan Massich, and Rafael Garcia, "Team-based Building of a Remotely Operated Robot as a Method to Increase the Interest for Engineering among Secondary School Students". In: Proceedings of EDULEARN 2012. 4th International Conference on Education and New Learning Technologies.

2011

Villanueva, Miquel, Xevi Cufí, Andrés ElFakdi, Joan Massich, and Rafael Garcia, "Attracting talent to increase interest for engineering among secondary school students". In: Global Engineering Education Conference (EDUCON), 2011 IEEE, pp. 347–353.

Awards

Feb. 2016

Best student paper award for, Rastgoo et. al. "Classification of melanoma lesions using sparse coded features and random forests", Rome

Aug. 2006

Member of the ViCOROB-UDG team honored as the winner of the 2006 SAUC-E (Student Autonomous Underwater Challenge Europe) competition, London