

BSc, MSc, PhD

Alessandro Artusi

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Short Bio

Dr. Artusi main research activities are in the areas of Image processing, Computer Graphics and Color Science. He has a long standing activities in High Dynamic Range technology, image/video encoding and its standardization, Image content retargeting, energy saving algorithmic solution and image/video subjective and objective evaluation. He has recently initiated deep-learning investigation activities to be applied to typical image processing and computer vision problems. He holds a Ph.D. degree from the Vienna University of Technology, in Computer Graphics, and a MSc. degree in Computer Science from the University of Milano (Italy). He is a member of the IST/037 coding of picture, audio, multimedia and hypermedia information, of the British Standard Institute (BSI), and is acting as UK representative in the ISO/IEC/SC29/WG1/JPEG and WG11/MPEG standardization committee's. He is one of the editors of the ISO/IEC/18477-JPEG-Xt standard, and he has acted as co-chair of the JPEG-Xt AhG, and chair of the AhG on verification of the JPEG-Xt Part7. For these activities he has been recognized with the prestigious BSI Emerging Standards Maker Award. He recently has received an Associate Professor habilitation from the Agència per a la Qualitat del Sistema Universitari de Catalunya (Spain) (AQU) and the Certified Programme I3 (Spanish System). He regularly acts as IPC member and reviewer for major international conferences and journals, and he or has been covered the position of Associate editor of three peer-review international journals. His research activities have attracted more than 1 million of euros, in national and international competitive research funding calls, and he has participated in research projects for a total budget of more than 6.5 millions of euros.

Programming skills

C/C++, Matlab, Python, Keras, OpenCV

Education

2000 - 2004	Vienna University of Technology (VUT), Austria, Institute of Computer Graphics and Algorithms Ph.D. in Computer Graphics (Distinction) Thesis: Real Time Tone Mapping
1999	Advanced Course of Colorimetry (Prof. C. Oleari University of Parma - Minolta Italy).
1992-1997	University of Milano , Italy, in collaboration with Hewlett Packard Research Centre of Barcelona (Spain) B.Sc and M.Sc. in Computer Science

Employment

01/09/2017 – on-going	Senior Researcher, KIOS Research Center of Innovation and Excellence, University of Cyprus
05/2012 – 05/2017	University of Girona , Spain, Ramon y Cajal Fellow (Professor Agregat equivalent to Associate Professor)
05/2009 – 04/2012	CaStoRc Cyprus Institute , Cyprus, Researcher of Computer Graphics and Visualisation and Head of the Visualization Laboratory
07/2007 – 04/2009	University of Warwick, Warwick Digital Laboratory, WMG , UK, Researcher Fellow Level 2
10/2006 – 04/2007	European Research Consortium for Informatics and Mathematics, ERCIM , Alain Bensoussan Research Fellow
01/2005 – 09/2006	University of Nicosia , Cyprus, Assistant Professor - Computer Science Department
02/2004 – 03/2004	Max Planck Institute , MPI, Germany, Visiting Researcher - Computer Graphics Group, Ass. Prof. Karol Myszkowski
09/2000 – 01/2005	Vienna University of Technology , Austria, Researcher - Institute of Computer Graphics and Algorithms
01/12-15/12/2001	University of Girona , Spain, Visiting Researcher - Computer Graphic group, Prof. Mateu Sbert
07/2001 –10/2001	University of Bath , UK, Visiting Researcher - Computer Graphics Laboratory, Prof. P.J. Willis
10/1998 – 10/2000	Italian National Research Council, CNR , Italy, Researcher
1998	Non Academic position – Software Programmer (Language C).
1989 – 1991	Non Academic position – Programmer PLC Assembly language and Electrical Technician.

Research Interests

My research goal is the development of computational algorithms through the use of mathematical and statistical methods for applications in the research areas of Computer Graphics and Signal and Image/Video Processing. In particular, I am working on standards development and their evaluation, image and video quality evaluation, image content retargeting, visual perception, computational photography, energy aware (energy efficient) algorithms, wearable computing devices, color management, high dynamic range imaging, neural network (deep-learning) solutions for image processing and computer graphics applications.

Impact Summary

Academic Impact

More than 50 publications with i10-index of 23, h-index of 15, 1044 total citations (as reported in Google Scholar by 28-02-2018), total impact factor 56 and I have achieved the highest impact factor journal in my field 9.654 (IEEE Signal Processing Magazine). The first of my books, see pag. 5, is the reference book in the High Dynamic Range Imaging field. I have obtained two of the most prestigious research fellowships at European level (Ramon y Cajal and ERCIM). I am an IPC member of more than 20 and reviewer of 30 International peer-review conferences, reviewer for more than 30 International peer-review journals in my fields of expertise (see pag. 3), and I am or have covered the position of Associate Editor of 3 International peer-review journals.

Industrial Impact

As member of the IST/37, ISO/IEC SC29 WG1 (JPEG) and ISO/IEC SC29 WG11 (MPEG) committees, I am actively involved in the development of new standards in the field of images and video compression. I have been covering several key positions with the JPEG committee (see pag. 2) and I am one of the editors of the new JPEG standard for High Bit Depth and High Dynamic Range still images named JPEG XT. For this work the British Standard Institute (BSI) has recognized to me the prestigious Emerging Standard maker award. During my activities at the University of Warwick, in the UK, I have been involved in several industry collaborations. As result, of one of these collaborations with Spheron VR GmbH, I have been one of the members to participate in the development of the first worldwide High Dynamic Range Video Camera. During this period I have been also the co-funder of GoHDR Ltd. a spin-off company of the University of Warwick. I have also 3 granted and 3 applications patents in the field of High Dynamic Range encoding, tone mapping, as well as in a new HDR display technology that brought to me the recognition of the 1st prize of 10,000 Euros at the International Cyprus Entrepreneur competition.

Teaching

University of Cyprus (CS), Cyprus	Lecture on High Dynamic Range Imaging. Invited by Prof. Yiorgos Chrisantou, Winter semester 2017
University of Girona, Spain	Master in Multimedia – 2014/2015 – 2015/2016 – 2016/2017 Lectures on Color, Perception and High Dynamic Range Imaging as part of the Computer Graphics course
Sarajevo School of Science and Technology	Visiting Professor at the, Bosnia, module to final year undergraduate students on “Advanced Computer Graphics”, 2008
MTA SZTAKI Budapest Computer and Automation Research Institute	Lecture on “Specularity Removal”. Invited by Prof. Dimitry Chevtherikov, 2006
University of Crema, Italy	Lecture on “HDR Imaging”. Invited Lecture by Assistant Prof. Alessandro Rizzi, 2005
University of Milano (DSI), Italy	Lecture on “ Accurate display of high dynamic range images”. Invited Lecture by Assistant Prof. Alessandro Rizzi, 2003
University of Nicosia, Cyprus (Department of Computer Science)	COMP 354 Operating Systems, Spring semester 2006 COMP 255 Language C/C++, Fall and Spring semesters 2005 COMP 352 Computer Graphics, Fall semester 2005 COMP 150 Microcomputer Applications, Fall semester 2005 COMP153 Visual Basic, Spring semester 2005 and 2006
Vienna University of Technology TU Wien (Austria), Institute of Computer Graphics and Algorithms	Winter Semester Forschungsseminar, 2004/2005 Winter Semester Seminar, 2003/2004 Winter Semester Proseminar, 2002/2003

Honours

2016	Agència per a la Qualitat del Sistema Universitari de Catalunya (Spain) (AQU) – Professor Agregat – Habilitation to Associate Professor released by the Agency for the Quality System of the Catalan Universities.
2016	Certified Programme I3 (Spanish System) - Programa de Incentivación de la Incorporación e Intensificación de la Actividad Investigadora.
2014	British Standard Institute Award Emerging Standards Maker - for an individual committee member who has made a significant contribution to standards making within the first three years of their membership of a BSI committee
2011	Ramon y Cajal Fellowship , the most prestigious Spanish research fellowship (success rate 13.6%)
2010	1st Prize 10,000 euro, Cyprus Entrepreneurship Competition , cyEC
2006	European Research Consortium for Informatics and Mathematics Alain Bensoussan , ERCIM, Fellowship 2006/2007
2005	HP Hewlett Packard (Bristol) and University of Bristol 2005 Fellowship (Refused)
2005	As member of the RealReflect team project: The project has been evaluated by the EU has one of the most successful IST project
2004-2005	Post-Doc Fellowship TU Wien Vienna
2000-2004	PhD fellowship TU Wien Vienna
1998-2000	Research fellow , Ministry of the University and Scientific Research, MURST, Italy

Professional Activities and Services

Technical Expert	EUROSTARS High-Level Technical expert (on-going)
International Standard Committees	Member of the IST/037 coding of picture, audio, multimedia and hypermedia information (UK representative) - (on-going).

Member of the JPEG Working Group 1 International Standard Committee - (on-going)

JPEG Working Group 1: Co-Chair of the Ad hoc Group (AhG) JPEGXT - (2012-2017)

JPEG Working Group 1: Chair of the AhG Verification JPEG XT Part7 - (2015)

Member of the MPEG Working Group 11 International Standard Committee - (on-going)

Member of the Extranet Forum for the European Defense Agency, EDA, - (2007)

Contributing **Expert** and **Advisor** for the **RISE Teaming Project**, University of Cyprus, - (2015-2016)

Programme Chair **11th VAST International Symposium on Virtual Reality, Archaeology and Cultural Heritage** 2010

Organization Committee **Eurographics Symposium on Parallel Graphics and Visualization, EGPGV, 2009**

17th Eurographics Symposium on Rendering, EGSR, 2006

ACM Symposium on Virtual Reality Software and Technology, VRST, 2006

Session Chair Ayanapa Summer Seminar, "Recent Results in Rendering and Modelling in Computer Graphics", 2006

10th VAST International Symposium on Virtual Reality, Archaeology and Cultural Heritage 2009

11th VAST International Symposium on Virtual Reality, Archaeology and Cultural Heritage 2010

International Program Committee Member (IPC) **ACM Symposium on Virtual Reality Software and Technology, VRST, 2007**

SIGGRAPH GRAPPHITE Conference, Perth Western Australia, 2007

GRAPP Conference on Computer Graphics Theory and Applications 2008, 2009, 2010

MCCSIS: IADIS Computer Graphics and Visualization Computer Vision and Image Processing, CGVCVIP, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015.

MCCSIS: IADIS Web Virtual Reality and Three-Dimensional Worlds, WEB3DW, 2009, 2010

International Symposium on Visual Computing, **ISVC, 2009, 2010, 2011, 2012, 2013, 2014**

IEEE International Conference in Games and Virtual Worlds for Serious Applications, VS-GAMES, 2010

EuroMed: Dedicated to Digital Cultural Heritage 2010, 2012

VAST International Symposium on Virtual Reality, Archaeology and Cultural Heritage 2010, 2011

Eurographics EG Special Track High Dynamic Range 2011

IEEE International Conference on Virtual Systems and Multimedia, VSMM, 2008, 2009, 2014, 2017

EURASIA GRAPHICS International Conference on Computer Graphics, Animation and Gaming Technologies 2014

Eurographics EG XXV Spanish Congress of Computer Graphics, CIEG, 2015

EPCGI'2016 (Encontro Português de Computação Gráfica e Interação) 2016

IEEE EDUCON: Global Engineering Education Conference, Special Track "Beyond Engineering/Science Education: Time to Expand Technical Depth while Increasing Business Knowledge", 2017, 2018

ICVRV International Conference on Virtual Reality and Visualization, 2017

Editorial Board for Referred Journals **Associate Editor** - Journal of Graphics Tools Taylor & Francis CRC Press ISSN 2165-347X (Print), 2165-3488 (Online) (from 01/2013 to 07/2015)

Associate Editor - Journal of the Institute of Industrial Applications Engineers ISSN 2187-8811

Associate Editor - International Journal of Computer Games Technology. Special issue on Real-Time Rendering Techniques for Gaming

Collaboration with Magazines Computer Graphics and Publishing Italian magazine; Italian Chapter of PC Professional

Reviewer for Refereed Journals **ACM Publisher**

ACM Transaction on Graphics (ACM TOG)

ACM Transaction on Applied Perception (ACM TAP)

ACM Journal of Computing and Cultural Heritage (ACM JOOCH)

IEEE Publisher

IEEE Transaction on Image Processing (IEEE TIP)

IEEE Transaction on Multimedia (IEEE TM).

IEEE Transaction on Broadcasting (IEEE BST)

IEEE Transaction on Visualisation and Graphics (IEEE TV&CG)

IEEE Transaction on Neural Network (IEEE TNN)

IEEE Transaction on Circuits and Systems on Video Technologies (IEEE TCSVT)

IEEE Selected Topics in Signal Processing (IEEE JSTSP)

Springer

The Visual Computer Journal (TVCJ)

EURASIP Journal on Image and Video Processing

Signal, Image and Video Processing (SIVP)

Machine Vision and Applications

Elsevier Publisher

Signal processing: Image Communication
Computer & Graphics
Journal of Visual Communication and Image Representation
Parallel Computing Systems & Applications
Displays – Journal

Wiley Publisher

Computer Graphics Forum Journal
Color Research and Applications

SPIE Publisher

Optical Engineering (OE)
Journal of Electronic Imaging (JEI)
Journal of Imaging Science & Technology (JIST)

OSA Publisher

Journal of the Optical Society of America A (JOSA A) OSA
Biomedical Optics Express OSA

Minor Publishers

International Journal Machine Graphics and Vision
DDD Colour Evolution
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER
SCIENCES
Frontiers of Information Technology & Electronic Engineering (ZUSC)

Reviewer for Referred Conferences

ACM SIGGRAPH 2009, 2010, 2014
ACM SIGGRAPH ASIA 2011
IEEE International Conference in Games and Virtual Worlds for Serious Applications, VS-GAMES, 2010
IEEE Visualization, Vis, 2009
International Symposium on Visual Computing, **ISVC**, 2009, 2010, 2011, 2012, 2013, 2014
Pacific Graphics 2005
Point Based Graphics 2004
Colour in Graphics, Imaging and Vision, **CGIV**, 2004.
ACM Afrigraph 2003
Eurographics Workshop on Rendering (EGWR) 2002
Computer Graphics and Imaging, **CGIM**, 2002
Eurographics, EG, 2001, 2002, 2003, 2004, 2005, 2006, 2010, 2011, 2012, 2013
International Conference On Computer Graphics Visualization and Computer Vision, **WSCG**, 2005
Spring Conference on Computer Graphics, **SCCG**, 2002
Graphic Interface, **GI**, 2002
ACM SIBBGRAPHI 2006
SM CAE 2007
Eurographics EG Spanish Congress of Computer Graphics CIEG, 2012, 2015
ACM Symposium on Virtual Reality Software and Technology, VRST, 2007
MCCSIS: IADIS Computer Graphics and Visualization Computer Vision and Image Processing, CGVCVIP, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015
MCCSIS: IADIS Web Virtual Reality and Three-Dimensional Worlds, WEB3DW, 2009, 2010
ACM SIGGRAPH GRAPPHITE Perth Western Australia 2007
IEEE International Conference on Virtual Systems and Multimedia, VSMM, 2008, 2009, 2012, 2014, 2017
GRAPP International Conference on Computer Graphics Theory and Applications 2008, 2009, 2010, 2011, 2012
VAST International Symposium on Virtual Reality, Archaeology and Cultural Heritage 2010, 2011
CGI Computer Graphics International 2013, 2015
Digital Heritage 2013
EuroMed: Dedicated to Digital Cultural Heritage 2010, 2012
EURASIA GRAPHICS International Conference on Computer Graphics, Animation and Gaming Technologies 2014
EPCGI (Encontro Português de Computação Gráfica e Interação) 2016
IEEE EDUCON: Global Engineering Education Conference, Special Track "Beyond Engineering/Science Education: Time to Expand Technical Depth while Increasing Business Knowledge", 2017
ACM Multimedia Conference, 2017
IEEE International Symposium on Circuits & Systems (ISCAS) 2018

Student Collaborations and Advisees

External PhD examiner	Davide Gadia "Color in Context and Spatial Color Computation" Universita' degli Studi di Milano, Italy, 2006
External MSc examiner	Panayiotis Karaiannis "Modelling a Narrow Street at Chrysaliniottisa Quartet in Nicosia" University of Cyprus UCY, 2005
PhD Co-advisor	Francesco Banterle , Warwick University, UK, 2007-2009 Jasim Happa , Warwick University, UK 2007-2011
PhD advisor	Raisel Ramirez Orozco , University of Girona, Spain, 2012-2016

MSc advisor

F. He, Warwick University, UK, 2008
S. Chen, Warwick University, UK, 2008
F. Liu, Warwick University, UK, 2008
Alexis Shiakides, University of Cyprus UCY and UCL, UK, 2007-2008
Benjamin Roch, Vienna University of Technology, Austria, 2006-2007

BSc advisor

Hamid Reza Ghotb, University of Nicosia, Cyprus, 2005

Praktikum advisor

Andreas Brandstetter, "Hardware Implementation of Radial Basis Function Network", Vienna University of Technology, Vienna, Austria, 2006-2007.
Benjamin Roch, "Implementation of Local Tone Mapping Operators", (2006-2007) Vienna University of Technology, Vienna (Austria).
Benjamin Roch, "ICC Profile generator", (2004) Vienna University of Technology, Vienna (Austria).

Invited Talks

- 2017 CS Colloquium Series University of Cyprus (UCY) "JPEG XT: A New JPEG Compression Standard for HDR and WCG Images".
- 2017 Keynote Speaker at Encontro Português de Computação Gráfica e Interação (EPCGI) 2017 Portugal "JPEG XT: A New JPEG Compression Standard for HDR and WCG Images".
- 2017 Nazarbayev University Astana Kazakhstan C.S. Department "High Dynamic Range Technology".
- 2015 COST ACTION ICT1005 Vienna Meeting "Tone Mapping Solutions".
- 2012 University of Girona, Spain, An Overview on Previous Research and Presentation of Potential Research Problems in Computer Graphics.
- 2010 University of Cyprus - Computer Graphics Laboratory "Color2Gray Appearance Based model".
- 2010 Linksceem Seminar Nile University Cairo, Egypt, "Computer Graphics and Visualisation at CaStoRC Cyprus Institute".
- 2010 Workshop on possible collaborations between the University of California, Davis (UCD) and The Cyprus Institute "Computer Graphics and Visualisation Activities at the Cyprus Institute".
- 2009 Unesco Seminar on Complex Systems and applications "Computer Graphics In Cultural Heritage".
- 2008 University of Southern California (USA) "... towards Real Virtuality".
- 2008 RealVirtuality Workshop (York University UK) "A gentle Introduction to OLED Display technology".
- 2011 Computer and Automation Research Institute (MTA SZTAKI) (Hungarian Academy of Science): "Tone Mapping: An Overview of Real Time Solutions".
- 2006 University of Cyprus (UCY): "Real-Time Tone Mapping using Visual Attention".
- 2002 DSI, University of Milano (Italy): "Tone Mapping Survey".
- 2001 Computer Science Department, University of Gerona (Spain): "Real Time Tone Mapping".

Publications**Patents Granted**

- [4] F. Banterle, **A. Artusi**, K. Debattista, P. Ledda, G. Bonnet, Edwards Gavin Johns and A. Chalmers "Video Data Compression". US Patent Application number U.S. Ser. No. 12/984,992, Priority date 10.07.2008, Filing date 05.01.2011, Publication and Granted date 02.08.2016.
- [3] **A. Artusi** "Display for Digital Images". US Patent Application number U.S. Ser. No. 13/389,052, Priority date 07.08.2009, Filing date 09.08.2010, Publication and Granted date 27.01.2015.
- [2] F. Banterle, **A. Artusi**, K. Debattista, P. Ledda, A. Chalmers, Edwards Gavin Johns and G. Bonnet "HDR Video Data Compression Devices and Methods". European Patent number 08012452.2, Filing and Priority date 10.07.2008, Publication and Granted date 21.06.2012.
- [1] **A. Artusi**, B. Roch, A. Chalmers and Y. Chrysanthou "Selective Tone Mapping". UK Patent number GB2449272, Journal number 6235, Filing date 15.05.2007, Publication and Granted date 19.11.2008.

Patents Applications

- [2] **A. Artusi** "Display for Digital Images". European Patent Application number EP 10739375.3, Priority date 07.08.2009, Filing date 09.08.2010, Publication date 13.06.2012.
- [1] **A. Artusi** "Display for Digital Images". International Application PCT, PCT/EP2010/061545, Priority date 07.08.2009, Filing date 09.08.2010, Publication date 10.02.2010.

Books

- [3] F. Banterle, **A. Artusi**, K. Debattista and A. Chalmers "Advanced High Dynamic Range Imaging Second Edition", CRC Press (AK Peters), ISBN 978-1-49870-694-0, 328 pages, July 2017.
- [2] **A. Artusi**, F. Banterle, A. Tunc, D. Panozzo and O. Sorkine "Image Content Retargeting: Maintaining Color, Tone, and Spatial Consistency", CRC Press (AK Peters), ISBN 978-1-48224-991-0, 230 pages, September 2016.
- [1] F. Banterle, **A. Artusi**, K. Debattista and A. Chalmers "Advanced High Dynamic Range Imaging Theory and Practice", CRC Press (AK Peters), ISBN 978-1-56881-719-4, 275 pages, March 2011.

Edited Volume (Proceedings)

[1] **A. Artusi**, M. Joly, G. Lucet, D. Pitalis and A. Ribes "Proceedings of the 11th VAST International Symposium on Virtual Reality, Archaeology and Cultural Heritage 2010". Eurographics publication, ISBN 978-3-905674-29-3, September 2010.

Chapters in Edited Books

[4] R. R. Orozco, C. Loscos, I. Martin, **A. Artusi** "Multi-view HDR video sequence generation", Book Title: "High Dynamic Range Video – Concepts Technology and Applications", Elsevier, Author / Editor: A. Chalmers, P. Campisi, P. Shirley and I. Olaizola, Elsevier Science- Technology & Engineering, ISBN 9780128094778, 500 pages, 1st December 2016.

[3] R. R. Orozco, C. Loscos, I. Martin, **A. Artusi** "Multi-view HDR video sequence generation", Book Title: "High Dynamic Range Video –From Acquisition to Display and Applications", Author / Editor: F. Dufaux, P. Callet, R. Mantiuk and M. Mrak, Academic Press, ISBN 0128030399, 978-0-12803-039-4, 640 pages, 26th April 2016.

[2] **A. Artusi** and A. Chalmers "Visual Attention in Computer Graphics", Book Title: "Visual Perception: New Research", NovaPublisher New York, Author / Editor: Isak L. Nilsson and William V. Lindberg, ISBN 978-1-60456-801-1, 2008.

[1] D. Marini, **A. Artusi** and A. Rizzi "Il problema della rappresentazione di una immagine nell'ambito dei beni culturali", Book Title: "Comunicazione Multimediale per i beni culturali", a cura di M. Rossi e P. Salonia, Ed. Addison Wesley, ISBN 88-7192-176-3, 2003 (Italian).

Courses, Tutorials and Summer Schools

[4] F. Banterle, **A. Artusi**, T. O. Aydın, P. Dydik, E. Eisemann, D. Gutierrez, R. Mantiuk, and T. Ritschel "Mapping images to target devices: spatial, temporal, stereo, tone, and color". Full day tutorial EUROGRAPHICS 2012, ISSN 1017-4656, DOI: 10.2312/conf/EG2012/tutorials/t1, May 2012, CORE 2014 rank: A, average rating: N/A.

[3] F. Banterle, **A. Artusi**, T. O. Aydın, P. Dydik, E. Eisemann, D. Gutierrez, R. Mantiuk, and K. Myszkowski "Multidimensional Image Retargeting". Full day course SIGGRAPH ASIA 2011, DOI: 10.1145/2077434.2077447, December 2011, CORE 2014 rank: Australasian, average rating: 5.0.

[2] **A. Artusi** "High Dynamic Range Imaging", Full day Seminar, 5th Summer School of Scientific Visualization and Interactive 3D Graphic. Cineca Consorzio InterUniversitario Bologna Italy, 2006.

[1] J. Meseth, G. Müller, M. Sattler, **A. Artusi**, A. Neumann, G. Zotti, R. Klein and W. Purgathofer "High Quality Rendering of Reflectance Data". Full day tutorial, Computer Graphics International CGI 2004, June 2004, CORE 2014 rank: B, average rating: N/A.

Referred Journals

[21] **A. Artusi**, T. Pouli, B. Francesco and A. O. Akyuz, "Automatic Saturation Correction for Dynamic Range management Algorithms", Signal Processing: Image Communication Journal, Volume -, pages -, ISSN 0923-5965, DOI: 10.1016/j.image.2018.01.011 SJR Indexing - Quartile: Q2 rating: 0.661, JCR indexing - Quartile: Q2, impact factor: 2.244.

[20] **A. Artusi**, T. Richter, T. Ebrahimi and R. Mantiuk, "High Dynamic Range Imaging Technology [Lecture] Note", IEEE Signal Processing Magazine, Volume 34, issue 5, pages 165-172, ISSN 1053-5888, September 2017, DOI: 10.1109/MSP.2017.2716957 SJR Indexing - Quartile: Q1 rating: 3.413, JCR indexing - Quartile: Q1, impact factor: 9.654.

[19] B. Francesco, **A. Artusi**, E. Sikudova, T. Bashford-Rogers, P. Ledda, A. Chalmers and M. Bloj "Mixing Tone Mapping Operators on the GPU by Differential Zone Mapping Based on Psychophysical Experiments", Signal Processing: Image Communication Journal, Volume 48, pages 50-62, ISSN 0923-5965, DOI: 10.1016/j.image.2016.09.004. SJR Indexing - Quartile: Q2 rating: 0.661, JCR indexing - Quartile: Q2, impact factor: 2.244.

[18] T. Richter, **A. Artusi**, T. Ebrahimi "JPEG XT: A New Family of JPEG-Backward-Compatible Standards", IEEE Multimedia Magazine, Volume 23, issue 3, pages 80-88, ISSN 1070-986X, July-September 2016, DOI: 10.1109/MMUL.2016.49. SJR Indexing - Quartile: Q1 rating: 0.948, JCR indexing - Quartile: Q1, impact factor: 1.767.

[17] **A. Artusi**, R. Mantiuk, T. Richter, P. Korsunov, P. Hanart, T. Ebrahimi and M. Agostinelli "JPEG XT: A Compression Standard for HDR and WCG Images [Standards in a Nutshell]", IEEE Signal Processing Magazine, Volume 33, issue 2, pages 118-124, ISSN 1053-5888, March 2016, DOI: 10.1109/MSP.2015.2506199. SJR Indexing - Quartile: Q1 rating: 3.413, JCR indexing - Quartile: Q1, impact factor: 9.654.

[16] **A. Artusi**, R. Mantiuk, T. Richter, P. Hanart, P. Korsunov, M. Agostinelli, A. Ten and T. Ebrahimi "Overview and evaluation of the JPEG XT HDR image compression standard", Journal of Real-Time Image Processing, Springer, ISSN 1861-8200, December 2015, DOI: 10.1007/s11554-015-0547-x. SJR Indexing - Quartile: Q3 rating: 0.398, JCR indexing - Quartile: Q1, impact factor: 2.02.

[15] E. Sikudova, T. Pouli, **A. Artusi**, A. O. Akyuz, F. Banterle, Z. M. Mazlumoglu and E. Reinhard "A Gamut Mapping Framework for Color-Accurate Reproduction of HDR Images", IEEE Computer Graphics and Applications, Volume 36, Issue 4, p.78-90, ISSN 0272-1716, November 2015, DOI: 10.1109/MCG.2015.116. SJR Indexing - Quartile: Q2 rating: 0.377, JCR indexing - Quartile: Q2, impact factor: 1.203.

[14] **A. Artusi**, Z. Zhang, D. Dritakis and Z. Sou "High-Order Wavelet Reconstruction for Multi-Scale Edge Aware Tone Mapping", Computer & Graphics Journal, Volume 45, Pages 51–63 Elsevier, ISSN 0097-8493 December 2014, DOI: 10.1016/j.cag.2014.08.002. SJR Indexing - Quartile: Q1 rating: 0.514, JCR indexing - Quartile: Q3, impact factor: 1.120.

[13] Z. Sou, X. Lou and **A. Artusi** "A Novel Image Decomposition Approach and its Applications", The Visual Computer Journal, Volume 29, Issue 10, p. 1011-1023, ISSN 0178-2789, 2012, DOI: 10.1007/s00371-012-0753-5. SJR Indexing - Quartile: Q2 rating: 0.56, JCR indexing - Quartile: Q3, impact factor: 1.060.

[12] J. Happa, T. Bashford-Rogers, A. Wilkie, **A. Artusi**, K. Debattista and A. Chalmers "Cultural Heritage Predictive Rendering", Computer Graphics Forum Journal, Volume 31, issue 6, p. 1823-1836, ISSN 1467-8659, DOI: 10.1111/j.1467-8659.2012.02098.x, September 2012. SJR Indexing - Quartile: Q1 rating: 0.96, JCR indexing - Quartile: Q1, impact factor: 1.681.

- [11] **A. Artusi**, F. Banterle and D. Chetverikov "A Survey of Specularity Removal Methods", *Computer Graphics Forum Journal*, Volume 30, Issue 8, p. 2208-2230, ISSN 1467-8659, DOI: 10.1111/j.1467-8659.2011.01971.x, December 2011. SJR Indexing - Quartile: Q1 rating: 0.96, JCR indexing - Quartile: Q1, impact factor: 1.681.
- [10] **A. Artusi**, M. Joly, G. Lucet, A. Ribés and D. Pitzalis "11th International Symposium on Virtual Reality, Archaeology and Cultural Heritage: 8th Eurographics Workshop on Graphics and Cultural Heritage". *Comput. Graphics Forum Journal* Volume 30, Issue 1, p. 233, ISSN: 1467-8659, 2011. SJR Indexing - Quartile: Q1 rating: 0.96, JCR indexing - Quartile: Q1, impact factor: 1.681.
- [9] J. Happa, M. Mudge, K. Debattista, **A. Artusi**, A. Gonçalves and A. Chalmers "Illuminating the Past - State of the Art" *Virtual Reality Journal*, Springer Verlag, Volume 14, Issue 3, p. 155-182, ISSN: 1359-4338 (Print) 1434-9957 (Online), DOI: 10.1007/s10055-010-0154-x, 2010. SJR Indexing - Quartile: Q3 rating: 0.293, JCR indexing - Quartile: Q3, impact factor: 0.667.
- [8] F. Banterle, K. Debattista, **A. Artusi**, S. Pattanaik, K. Myszkowski, P. Ledda, and A. Chalmers "High Dynamic Range Imaging and LDR Expansion for Generating HDR Content" *Computer Graphics Forum Journal*, Volume 28, Issue 8, p. 2343-2367, ISSN 1467-8659, December 2009, DOI: 10.1111/j.1467-8659.2009.01541.x. SJR Indexing - Quartile: Q1 rating: 0.96, JCR indexing - Quartile: Q1, impact factor: 1.681.
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Funding (Total PI allocation funding approximately 1 million, of combined funding of more than 6 millions)

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Project title: Platform for Animation and Virtual reality, Financing entity: EU IST Framework 5, Grant reference: TMR ERBFXMRXCT960036, Amount granted: 500,000 Euros, Duration: from 2000 to 2001, Principal Investigator: Prof. Werner Purgathofer.

Project title: Real-Reflect, Financing entity: EU IST Framework 6, Grant reference: IST-2001-34744, Amount granted: 3 Millions of Euros, Duration: from 2002 to 2005 Principal Investigator: Prof. Werner Purgathofer.

Project title: Real-time Rendering of Urban Environments, Financing entity: FWF Austria, Grant reference: P-13867-INF, Amount granted: 200,000 Euros, Duration: from 2001 to 2002, Principal Investigator: Ass. Prof. Michael Wimmer.

Project title: ÖAD (Wissenschaftlich-Technischen Zusammen arbeit) Austria-Czech Republic, Austria-Spain, Financing entity: ÖAD Austria Grant reference: N/D, Amount granted: 100,000 Euros, Duration: from 2001 to 2002 Principal Investigator: Prof. Werner Purgathofer.

Project title: Case for support: Perceptually Realistic Environments for Architectural Planning and Visual Impact Assessment, Financing entity: EPSRC (UK), Grant reference: EP/D069874/2, Amount granted: 271,388 UK Pounds, Duration: from 03/2007 to 07/2009, Principal Investigator: Prof. Alan Chalmers.

Project title: High Dynamic Range for High Fidelity Image Synthesis of Real Scenes, Financing entity: EPSRC (UK), Grant reference: EP/D032148/2, Amount granted: 188,556 UK Pounds, Duration: from 03/2007 to 04/2009, Principal Investigator: Prof. Alan Chalmers.

Project title: A Comparative Study of the High-Fidelity Computer Reconstruction of Byzantine Art in Cyprus in the Past and Present, Financing entity: EPSRC (UK), Grant reference: EP/E024998/2, Amount granted: 29,505 UK Pounds, Duration: from 03/2007 to 11/2007, Principal Investigator: Prof. Alan Chalmers.

Project title: Feasibility study and Network ... towards Real Virtuality, Financing entity: EPSRC (UK), Grant reference: EP/G001634/1, Amount granted: 183,560 UK Pounds, Duration: from 04/2008 to 04/2009, Principal Investigator: Prof. Alan Chalmers.

Project title: TONEMAP, Financing entity: Research Promotion Foundation (RPF), Grant reference: PLHRO-1104-21, Amount granted: 175,000 Euros, Duration: from 2005 to 2007, Principal Investigator: **Dr. Alessandro Artusi**.

Project title: Linkscheem 2, Financing entity: EU Grant reference: Linkscheem 2, Amount granted: 2,450,000 Euros, Duration: from 2009 to 2012, Principal Investigator: Prof. D. Constantinou.

Project title: HDRi: The digital capture, storage, transmission and display of real-world lighting, Financing entity: COST ACTION EU, Grant reference: IC1005, Amount granted: 400,000 Euros, Duration: from 2011 to 2015, Principal Investigator for the Cyprus Partner: **Dr. Alessandro Artusi**.

Project title: Ramon y Cajal Fellow, Financing entity: Ministerio de Ciencia y Innovación (Spain), Grant reference: RYC-2011-09372, Amount granted: 180,000 Euros, Duration: from 2011 to 2015, Principal Investigator: **Dr. Alessandro Artusi**.

Project title: ERCIM Fellow, Financing entity: EU, Grant reference: N/A, Amount granted: 100,000 Euros, Duration: from 2006 to 2008, Principal Investigator: **Dr. Alessandro Artusi**.

Project title: Information theory tools applied to computer graphics. (amb Universitat de Hasselt, Flandes, Bèlgica), Financing entity: ALPN, Grant reference: MPCUdG2016/015, Amount granted: 30.000,00Euros, Duration: from 01/01/2016 to 31/12/2018, Principal Investigator: Prof. Mateu Sbert.

Project title: Avances en contenidos digitales para juegos serios, Financing entity: Ministerio de Economía y Competitividad (MECO) Grant reference: TIN2013-47276-C6-1-R, Amount granted: 134.691,00 Euros, Duration: from 01/01/2014 to 31/12/2016 Principal Investigator: Prof. Mateu Sbert.

Project title: Grup de tecnologies d'imatge i gràfics (TIG) Center TIG, Financing entity: Centre d'Innovació i Desenvolupament Empresarial (CIDEM), Grant reference: Centre TIG, Amount granted: 0 Euros, Duration: from 2015 to 2050, Principal Investigator: Prof. Mateu Sbert.

Project title: Gràfics i Imatge, Financing entity: AGAU - Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). Generalitat de Catalunya, Grant reference: SGR 1232, Amount granted: 0 Euros, Duration: from 01/01/2014 to 31/12/2016, Principal Investigator: Prof. Mateu Sbert.

Project title: Gràfics i Imatge, Financing entity: AGAU - Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). Generalitat de Catalunya, Programme: APLN, Grant reference: SGR0643, Amount granted: 49.920,00 Euros, Duration: from 25/09/2009 to 30/04/2014, Principal Investigator: Prof. Mateu Sbert.

Project title: TIG-UdG. Centro Tecnologías de Imatge i Gràfics - Centre TIG, Financing entity: Agencia de Suport a l'Empresa Catalana (ACC1Ó) - Programme: APLN, Amount granted: 0 Euros, Duration: from 01/01/2016 to 31/12/2019, Principal Investigator: Prof. Mateu Sbert.

Project title: Infrastructure. 1334 – Servidors, Amount granted: 31.071,43 Euros, Principal Investigator: Prof. Immaculada Boada Oliveras.

Project title: Energy-Aware Mobile Graphics Algorithms, Financing entity: Research Promotion Foundation Cyprus, Grant reference: ΕΠΙΧΕΙΡΗΣΕΙΣ/ΠΡΟΪΟΝ/0311/37, Amount granted: 160,275.20 Euros, Duration: from 2013 to 2014, Principal Investigator: **Dr. Alessandro Artusi**.

Project title: Research Center on Interactive Media Smart Systems and Emerging Technologies, Financing entity: Horizon 2020 European Union Teaming Call, Grant, passed the first phase Amount granted: 500,000 Euros, Duration: from 2015 to 2016, Principal Investigator: Ass. Prof. Yiorgos Chrysantou. I have collaborated in the writing of the proposal as an external consultant.

Participation in especially significant research and technology-transfer contracts with companies and/or Administrations

Contract title: Nea-Lights Project, Financing company/Administration: Corghi Italia Spa Country: Italy, Duration: from 02/2007 to 03/2007, Amount granted: 3,000 Euros, Principal Investigator: **Dr. Alessandro Artusi**.

Contract title: Colorimetric characterization of printers, Financing company/Administration: Olivetti Lexikon Italia Spa, Duration: from 1998 to 2000, Amount granted: 100,000 Euros, Principal Investigator: Dr. Raimondo Schettini.