

Marco Visentini-Scarzanella

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EDUCATION

Imperial College London

Ph.D. in Medical Image Computing

2007-2011

Thesis: "3D Reconstruction from Stereo and Photometric Cues in Minimally Invasive Surgery".

Supervisor: Prof G.-Z. Yang.

Examiners: Prof A. Davison, Prof E. Hancock.

Imperial College London

MEng in Information Systems Engineering

2002-2007

Dissertation: "Compression of Multi-View Video Sequences Using Distributed Source Coding Principles"

Supervisor: Prof P. L. Dragotti.

Honours: First Class.

United World College of the Adriatic

International Baccalaureate

2000-2002

AWARDS

- **Best Paper Award (Runner up)** – *MICCAI 2nd International Workshop on Computer Assisted and Robotic Endoscopy* **2015**
Runner up for the work in [C9] at the MICCAI CARE 2015 workshop.
- **Top 10% Award** – *IEEE International Conference in Image Processing* **2013**
Awarded to the top 10% papers at ICIP 2013 for the work in [C17].
- **Best Demo Award** – *GTTA MMSP* **2013**
First prize from the Italian chapter of the IEEE Multimedia and Signal Processing (MMSP) society for the demo showcasing the work in [C16].
- **Quality Reviewer Award** – *IEEE International Conference on Multimedia & Expo* **2013**
Award as one of the best reviewers for the IEEE ICME 2013 conference.
- **Best Student Paper Award** – *Computer Assisted Radiology and Surgery* **2012**
Best Student Paper Award among ~200 submissions for the work in [C23] at the 26th International Congress and Exhibition on Computer Assisted Radiology and Surgery (CARS).
- **EPSRC DTA Scholarship** **2007**
Fully funded Doctoral Training Award Ph.D. scholarship for academic achievement to starting Ph.D. students by the UK Engineering and Physical Sciences Research Council (EPSRC).
- **Sir William Siemens Medal** **2006**
Awarded by Siemens to the top engineering student of the year for academic and industrial achievements from each of nine of the UK's leading universities.
- **ARM Scholarship** **2004**
Awarded for outstanding internship performance.

GRANTS AND FELLOWSHIPS

- Toshiba* **2015**
Toshiba Fellowship Programme
 Winner of the 2015 Toshiba Fellowship, awarded each year to a single UK researcher. The project I proposed focuses on endoscopic navigation and integration of preoperative MR/CT data during bronchoscopy, and is expected to be integrated in a new line of Toshiba medical products.
- Japanese Society for the Promotion of Science* **2014**
KAKENHI Grant-in-Aid for Young Scientists
 Grant no. 26-04041: "Development on Medical Systems using 3D Scanning Techniques for Fast-moving Deformable Objects". Amount: 2,300,000¥.
- Japanese Society for the Promotion of Science* **2014**
JSPS Postdoctoral Fellowship for Overseas Researchers
 Awarded the JSPS standard fellowship (10.9% acceptance rate) for the project titled "Development of medical systems with interventional 3D scanning for deformable tissues", to be carried out at Kagoshima University together with Prof. Hiroshi Kawasaki.

INVITED TALKS

- EURAXESS European Research Day* **2016**
Machine Learning for Endoscopy Navigation from Academia to Industry
- Chitose International Forum on Photonics Science and Technology* **2016**
Active and Passive Optical Techniques for 3D Reconstruction in Endoscopy
- IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)* **2015**
One-shot 3D reconstruction in flexible and capsule endoscopy for diagnosis and navigation
- Kyushu University – DUBITO Lab* **2015**
Reconstruction and navigation in minimally invasive surgery and endoscopy
- Kyoto Sangyo University* **2015**
Shape, light and reflectance interplay and its applications
- British Machine Vision Association workshop: "Reconstructing a Dynamic World"* **2013**
Stereo and Shape-from-Shading Cue Fusion for Dense 3D Reconstruction in Endoscopic Surgery
- Kagoshima University* **2013**
3D Reconstruction: State-of-the-art and future challenges
- Hamlyn Centre for Robotic Surgery* **2013**
Photometric-based 3D Reconstruction: Scratching the Surface

TEACHING EXPERIENCE

- Imperial College London* **2012**
Lecturer – Signals and Linear Systems
 Delivered lectures and led tutorial groups on signal processing to the Electronic Engineering 2nd year group (~240 students).
- Imperial College London* **2008-2010**
Teaching Assistant – Mathematical Methods
 Taught elements of linear algebra, calculus and functional analysis to tutorial groups of first year Computing students for three years.
- Imperial College London* **2007-2008**
Lab demonstrator – Computer Architecture
 Organised weekly lab sessions covering ARM Assembly programming principles for first and second year Electronic Engineering students.

Imperial College London

Lab demonstrator – Introduction to Programming

2007-2008

Organised weekly lab sessions covering C++ programming for first and second year Electronic Engineering students.

EMPLOYMENT RECORD

Amazon Japan

Head of Data Science and Analytics

01/2021-present

Lead the data science activities for the Japan Consumer Innovation department, developing ML technologies and live services to maximize growth for Amazon vendors and customer impact

Amazon Japan

Senior Applied Scientist

11/2018-01/2021

Research of innovative large-scale solutions for recommender systems, text and image analysis and unsupervised learning to enhance the customer experience.

IBM Research AI Tokyo, Japan

Research Scientist

9/2017-10/2018

Research of computer vision and machine learning solution for the NavCog project (jointly with Carnegie Mellon University). The project aims to provide innovative software solutions to blind and elderly users for indoor/outdoor navigation and automatic environment understanding.

IBM Research AI Tokyo, Japan

Guest Researcher

1/2017-8/2017

Research of computer vision and machine learning solution for the NavCog project (jointly with Carnegie Mellon University). The project aims to provide innovative software solutions to blind and elderly users for indoor/outdoor navigation and automatic environment understanding.

Toshiba R&D Center, Kawasaki, Japan

Toshiba Fellow

11/2015-12/2016

Development of an intraoperative real-time system for navigation and integration of CT/MR data during bronchoscopy. Results are expected to be integrated in a new line of Toshiba solutions.

Kagoshima University, Kagoshima, Japan

International JSPS Research Fellow

08/2014-11/2015

Development of computer vision techniques for simultaneously recovering 3D structure as well as tissue reflectance properties from standard camera images using novel photometric techniques. Results are applied to intraoperative diagnosis and navigation during endoscopy.

Imperial College London, London, United Kingdom

Research Associate

2011-2014

Position linked to the REWIND project funded under the EU commission FP7 Future Emerging Technologies scheme (www.rewindproject.eu) under Prof. Pier Luigi Dragotti. My work focuses on the development of computer vision and signal processing techniques for the automatic detection and classification of recaptured/tampered videos and images.

Politecnico di Milano, Milan, Italy

Visiting Research Fellow

2013

Visiting period at the Image and Sound Processing group headed by Prof. Stefano Tubaro in the Politecnico di Milano as part of an ongoing

collaboration. My research focused on the recovery of the processing history and parameters of images and videos that have undergone complex processing chains from a digital forensics perspective. This includes sequences of lossy compressions, tampering and recapture.

Imperial College London, London, United Kingdom

Research Assistant

2011

Position linked to the ARAKNES project funded under the EU commission FP7 scheme (www.araknes.eu). My work focused on the development of a console to allow augmented reality, intra-operative visualisation and robotic control during minimally invasive surgery.

Imperial College London, London, United Kingdom

Sub-Warden

2009-2011

Worked as part of the Wardening team of the Imperial College Garden and Weeks Halls of Residence. My duties included:

- Responsibility over the well-being of over 150 students, including underage and medical referral students.
- Organization of cultural and social events for the whole residence.
- Supervision of the Halls of Residence Café, including stock replenishment and financial bookkeeping.

Asahi-Kasei, Atsugi-shi, Kanagawa-ken, Japan

Researcher

2005-2006

Worked as part of the R&D team on the VoReRo platform for automatic speech recognition technology. My duties included:

- Development of proprietary acoustic models for the Italian language.
- Research on techniques for voice recognition error rate reduction.
- Supervision of NRE projects for external clients.

Philips Research Laboratories, Redhill, United Kingdom

Research Intern

2005

Worked as part of the Wireless Systems Group. My duties included:

- Investigating the carrier frequency dependence on multi-path reflections.
- Design, building and testing three FPGA-controlled transceiver boards.
- Implementation in VHDL of the FPGA control algorithms.

ARM Ltd., Cambridge, United Kingdom

Summer Intern

2004

Worked as part of the Compilation Tools Group. My duties included:

- Research of innovative solutions to the problem of register multiplication by constant integers in order to speed up the on-chip execution of FFT.
- Design and implementation of an algorithm in C proving the effectiveness of the alternatives researched.

PUBLICATIONS

All works listed have appeared or have been firmly accepted on peer-reviewed international conferences, journals or talks unless stated otherwise. Names with an asterisk '*' indicate that multiple authors contributed to the work in equal measure.

Total citation count: 952 (Google Scholar)

h-Index: 17 (Google Scholar)

Peer-reviewed International Journals

- [J1] Y. Hao, M. Visentini-Scarzanella, J. Li, P. Zhang, G. Ciuti, P. Dario, Q. Huang, "Light source calibration method for photometric stereo in capsule endoscopy", *Advanced Robotics* 2020, pp. 1-13.

- [J2] M. Visentini-Scarzanella, H. Kawasaki, R. Furukawa, M. A. Bonino, S. Arolfo, G. Lo Secco, A. Arezzo, A. Menciacchi, P. Dario, G. Ciuti, **“A structured light laser probe for gastrointestinal polyp size measurement: a preliminary comparative study”**, Endoscopy International Open, February 2018, *In press*.
- [J3] P. Brandao, O. Zisimopoulos, E. Mazomenos, G. Ciuti, J. Bernal, M. Visentini-Scarzanella, A. Menciacchi, P. Dario, A. Koulaouzidis, A. Arezzo, D. J. Hawkes, D. Stoyanov, **“Towards a computer-assisted diagnosis system in colonoscopy: automatic polyp segmentation using convolutional neural networks”**, Journal of Medical Robotics Research, February 2018, *In press*.
- [J4] M. Visentini-Scarzanella, T. Sugiura, T. Kaneko, S. Koto, **“Deep Monocular 3D Reconstruction for Assisted Navigation in Bronchoscopy”**, International Journal of Computer Assisted Radiology and Surgery (IJCARS), vol. 12(7), 1089-1099, July 2017.
- [J5] M. Mura, Y. Abu-Kheil, G. Ciuti, M. Visentini-Scarzanella, A. Menciacchi, P. Dario, J. Dias, L. Seneviratne, **“Vision-based haptic feedback for capsule endoscopy navigation: a proof of concept”**, Journal of Micro-Bio Robotics, vol. 11(1-4), 35-45, Springer, June 2016.
- [J6] M. Tagliasacchi, M. Visentini-Scarzanella, P. L. Dragotti, S. Tubaro, **“Identification of Transform Coding Chains”**, IEEE Transactions on Image Processing (TIP), vol. 25(3), 1109-1123, December 2015.
- [J7] S. Giannarou, M. Visentini-Scarzanella, G.-Z. Yang, **“Probabilistic Tracking of Affine-Invariant Anisotropic Regions”**, IEEE Transactions on Pattern Recognition and Machine Intelligence (TPAMI), vol. 35(1), 130-143, January 2013.
- [J8] W. T. Latt, R. C. Newton, M. Visentini-Scarzanella, C. J. Payne, D. P. Noonan, J. Shang, G.-Z. Yang, **“A Handheld Instrument to Maintain Steady Tissue Contact during Probe-based Confocal Laser Endomicroscopy”**, IEEE Transactions on Biomedical Engineering (TBME), vol. 58(9), 2694-2703, September 2011.
- [J9] S.-L. Lee, M. Lerotic, V. Vitiello, S. Giannarou, K.-W. Kwok, M. Visentini-Scarzanella, G.-Z. Yang, **“From medical images to minimally invasive intervention: Computer assistance for robotic surgery”**, Computerized Medical Imaging and Graphics, Elsevier, vol. 37 (1), 33-45, January 2010.

Peer-reviewed International Conferences

- [C1] J. Vongkulbhisal, P. Vinayavekhin, M. Visentini-Scarzanella, **“Unifying Heterogeneous Classifiers with Distillation”**, IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), Palm Beach, CA, Jun. 2019.
- [C2] M. Visentini-Scarzanella, T. Sugiura, T. Kaneko, S. Koto, **“Deep Monocular 3D Reconstruction for Assisted Navigation in Bronchoscopy”**, International Conference on Information Processing in Computer-Assisted Interventions (IPCAI), Barcelona, Spain, Jun. 2017. *Oral presentation*.
- [C3] T. Hirukawa, M. Visentini-Scarzanella, H. Kawasaki, R. Furukawa, S. Hiura, **“Simultaneous independent image display technique on multiple 3D objects”**, Asian Conference on Computer Vision (ACCV), Taipei, Taiwan, Nov. 2016.
- [C4] R. Furukawa, Y. Sanomura, S. Tanaka, S. Yoshida, R. Sagawa, M. Visentini-Scarzanella, H. Kawasaki, **“3D endoscope system using DOE projector”**, IEEE International Conference of the Engineering in Medicine and Biology Society (EMBC), Orlando, FL, Aug. 2016.
- [C5] M. Visentini-Scarzanella, H. Kawasaki, **“Simultaneous Camera, Light Position and Radiant Intensity Distribution Calibration”**, Pacific Rim Symposium on Image and Video Technology (PSIVT), Auckland, New Zealand, Nov. 2015.
- [C6] H. Morinaga, M. Mikamo, M. Visentini-Scarzanella, H. Kawasaki, R. Furukawa, R. Sagawa, **“Underwater Active Oneshot Scan with Static Wave Pattern and Bundle Adjustment”**, Pacific Rim Symposium on Image and Video Technology (PSIVT), Auckland, New Zealand, Nov. 2015.
- [C7] M. Mikamo, Y. Oki, M. Visentini-Scarzanella, H. Kawasaki, R. Furukawa, R. Sagawa, **“A Triangle Mesh Reconstruction Method Taking into account Silhouette Images”**, Pacific Rim Symposium on Image and Video Technology (PSIVT), Auckland, New Zealand, Nov. 2015.
- [C8] M. Visentini-Scarzanella, T. Hirukawa, H. Kawasaki, R. Furukawa, S. Hiura, **“A two plane volumetric display for simultaneous independent images at multiple depths”**, Pacific Rim Symposium on Image and Video Technology (PSIVT) Workshop Vision Meets Graphics (VG), Auckland, New

Zealand, Nov. 2015.

- [C9] M. Visentini-Scarzanella, T. Hanayama, R. Masutani, S. Yoshida, Y. Kominami, Y. Sanomura, S. Tanaka, R. Furukawa, H. Kawasaki, **“Tissue Shape Acquisition with a Hybrid Structured Light and Photometric Stereo Endoscopic System”**, Medical Image Computing and Computer Assisted Intervention (MICCAI) 2nd International Workshop on Computer-Assisted and Robotic Endoscopy (CARE), Munich, Germany, Oct. 2015. *Oral presentation*. [Best paper award – Runner up](#).
- [C10] M. Visentini-Scarzanella, R. Furukawa, H. Kawasaki, **“A Combined Structured Light and Photometric Stereo Endoscope for Dynamic Tissue Measurement”**, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) Workshop on Robotic Endoscopic Capsules for Gastrointestinal Screening (REC), Hamburg, Germany, Sept. 2015.
- [C11] R. Furukawa, R. Masutani, D. Miyazaki, M. Baba, S. Hiura, M. Visentini-Scarzanella, H. Morinaga, H. Kawasaki, R. Sagawa, **“2-DoF Auto-calibration for a 3D Endoscope System Based on Active Stereo”**, IEEE International Conference of the Engineering in Medicine and Biology Society (EMBC), Milan, Italy, Aug. 2015. *Oral presentation*.
- [C12] Y. Oki, M. Visentini-Scarzanella, T. Wada, R. Furukawa, R. Sagawa, H. Kawasaki, **“Entire Shape Scan System with Multiple Pro-Cams Using Texture Information and Accurate Silhouette Creating Technique”**, IAPR International Conference on Machine Vision Applications (MVA), Tokyo, Japan, May 2015. *Oral presentation (13% acceptance rate)*.
- [C13] J. Pearson, M. Visentini-Scarzanella, M. Brookes, P. L. Dragotti, **“Tilted Layer-based Modelling for Enhanced Light-field Processing and Image-based rendering”**, IEEE International Conference on Image Processing (ICIP), Paris, France, Oct. 2014.
- [C14] M. Visentini-Scarzanella, D. Stoyanov, **“Stereo and Shape-from-Shading Cue Fusion for Dense 3D Reconstruction in Endoscopic Surgery”**, 3rd Joint Workshop on New Technologies for Computer/Robot Assisted Surgery (CRAS), Verona, Italy, Sept. 2013. *Oral Presentation*.
- [C15] M. Visentini-Scarzanella, P. L. Dragotti, **“Modelling Lens Radial Distortion Chains for Video Recapture Detection”**, IEEE International Workshop on Multimedia and Signal Processing (MMSP), Pula, Italy, Sept. 2013.
- [C16] P. Bestagini, M. Visentini-Scarzanella, M. Tagliasacchi, P. L. Dragotti, S. Tubaro, **“Video Recapture Detection Based on Ghosting Artifact Analysis”**, IEEE International Conference on Image Processing (ICIP), Melbourne, Australia, Sept. 2013. [GTTI MMSP Best demo award](#).
- [C17] M. Tagliasacchi, M. Visentini-Scarzanella, P. L. Dragotti, S. Tubaro, **“Transform Coder Identification with Double Quantized Data”**, IEEE International Conference on Image Processing (ICIP), Melbourne, Australia, Sept. 2013. [IEEE ICIP Top 10% paper award](#).
- [C18] M. Visentini-Scarzanella, M. Tagliasacchi, P. L. Dragotti, **“Quantization Invariants for Transform Parameter Estimation in Coding Chains”**, IEEE Data Compression Conference (DCC), Snowbird, UT, Mar. 2013. *Oral presentation (22% acceptance rate)*.
- [C19] M. Tagliasacchi, M. Visentini-Scarzanella, P. L. Dragotti, S. Tubaro, **“Transform Coder Identification”**, IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Vancouver, Canada, May 2013.
- [C20] M. Visentini-Scarzanella, P. L. Dragotti, **“Video Jitter Analysis for Automatic Bootleg Detection”**, IEEE International Workshop on Multimedia Signal Processing (MMSP), Banff, Canada, Oct. 2012.
- [C21] M. Visentini-Scarzanella, D. Stoyanov, G.-Z Yang, **“Metric Depth Recovery from Monocular Images Using Shape-from-Shading and Specularities”**, IEEE International Conference on Image Processing (ICIP), Orlando, FL, Sept. 2012. *Oral presentation (16% acceptance rate)*.
- [C22] M. Visentini-Scarzanella*, G. Ciuti*, A. Dore, A. Menciassi, P. Dario, G.-Z Yang, **“Intra-operative Monocular 3D Reconstruction for Image-Guided Navigation in Active Locomotion Capsule Endoscopy”**, IEEE RAS and EMBS International Conference on Biomedical Robotics and Biomechatronics (BioRob), Rome, Italy, Jun. 2012. *Oral presentation*.
- [C23] M. Visentini-Scarzanella*, G. Ciuti*, A. Dore, A. Menciassi, P. Dario, G.-Z Yang, **“Intra-operative 3D Reconstruction for Image-Guided Navigation in Capsule Endoscopy”**, 26th International Congress on Computer Assisted Radiology and Surgery (CARS), Pisa, Italy, Jun. 2012. [Best student poster award](#).
- [C24] W. T. Latt, R. C. Newton, M. Visentini-Scarzanella, C. J. Payne, D. P. Noonan, J. Shang, G.-Z. Yang,

“A Hand-held Instrument to Control Tissue Contact Force during Probe-Based Confocal Laser Endomicroscopy”, 4th Hamlyn Symposium for Medical Robotics, London, UK, Jun. 2011.

- [C25] R. C. Newton, D. Noonan, C. Payne, J. Andreyev, A. Di Marco, M. Visentini-Scarzanella, A. Darzi, G.-Z. Yang, **“Probe tip contact force and bowel distension affect crypt morphology during confocal endomicroscopy”**, *Gut*, vol. 60(1), A12-A13, Apr. 2011.
- [C26] M. Visentini-Scarzanella, R. Merrifield, D. Stoyanov, G.-Z. Yang, **“Tracking of Irregular Graphical Structures for Tissue Deformation Recovery in Minimally Invasive Surgery”**, Medical Image Computing and Computer Assisted Intervention (MICCAI), Beijing, China, Sept. 2010. *Poster presentation (32% acceptance rate)*.
- [C27] D. Stoyanov, M. Visentini-Scarzanella, P. Pratt, G.-Z. Yang, **“Real-time Stereo Reconstruction in Robotic Assisted Minimally Invasive Surgery”**, Medical Image Computing and Computer Assisted Intervention (MICCAI), Beijing, China, 2010. *Oral presentation (6% acceptance rate)*.
- [C28] P. Pratt, D. Stoyanov, M. Visentini-Scarzanella, G.-Z. Yang, **“Dynamic Guidance for Robotic Surgery using Image-Constrained Biomechanical Models”**, Medical Image Computing and Computer Assisted Intervention (MICCAI), Beijing, China, Sept. 2010. *Oral presentation (6% acceptance rate)*.
- [C29] A. W. Dowsey, P. Pratt, M. Visentini-Scarzanella et al., **“A real-time simulation, guidance and visualisation platform for intra-operative minimally invasive surgery”**, 1st NVIDIA GPU Technology Conference, Oct. 2009.
- [C30] M. Visentini-Scarzanella, G. P. Mylonas, D. Stoyanov, G.-Z. Yang, **“i-BRUSH: A Gaze-Contingent Virtual Paintbrush for Dense 3D Reconstruction in Robotic Assisted Surgery”**, Medical Image Computing and Computer Assisted Intervention (MICCAI), London, UK, 2009. *Poster presentation (32% acceptance rate)*.
- [C31] S. Giannarou, M. Visentini-Scarzanella, G.-Z. Yang, **“Affine-invariant anisotropic detector for soft tissue tracking in minimally invasive surgery”**, IEEE International Symposium on Biomedical Imaging (ISBI), Boston, MA, 2009.
- [C32] B. P.-L. Lo, M. Visentini-Scarzanella, D. Stoyanov, G.-Z. Yang, **“Belief Propagation for Depth Cue Fusion in Minimally Invasive Surgery”**, Medical Image Computing and Computer Assisted Intervention (MICCAI) New York, NY, 2008. *Poster presentation (36% acceptance rate)*.

Patents

- [P1] M. Visentini-Scarzanella, H. Kawasaki, H. Masuyama, S. Hiura, R. Furukawa, **“Pattern Generation Methodology and Software for Projection System”**, Japanese patent application no. 2015-128331, 26/06/2015.
- [P2] M. Visentini-Scarzanella, R. Furukawa, R. Sagawa, H. Kawasaki, S. Yoshida, **“3D Shape Measurement Apparatus, Diagnosis System and 3D Shape Measurement Method”**, Japanese patent application no. 2015-147244, 24/07/2015.
- [P3] M. Visentini-Scarzanella, T. Okazaki, T. Kaneko, Y. Taguchi, W. Watanabe, **“Network Training Device, Network Training System, Network Training Method and Computer Program Product”**, US patent application no. G10003416, 31/07/2017.

Non peer-reviewed / Domestic Conferences

- [D1] M. Visentini-Scarzanella, T. Hirukawa, H. Kawasaki, R. Furukawa, S. Hiura, **“Simultaneous independent projections at multiple depths using a multi-projector system”**, 18th Meeting on Image Recognition and Understanding (MIRU), Osaka, Japan, Jul. 2015.
- [D2] R. Masutani, R. Furukawa, M. Baba, D. Miyazaki, M. Aoyama, S. Hiura, H. Kawasaki, M. Visentini-Scarzanella, R. Sagawa, **“2-DoF Auto-calibration for a 3D Endoscope System Based on Active Stereo”**, 18th Meeting on Image Recognition and Understanding (MIRU), Osaka, Japan, Jul. 2015.
- [D3] T. Hanayama, H. Baba, M. Visentini-Scarzanella, R. Furukawa, R. Sagawa, H. Kawasaki, **“Underwater 3D Shape Measurement with Static Wave Pattern for One-Shot Scan”**, 18th Meeting on Image Recognition and Understanding (MIRU), Osaka, Japan, Jul. 2015.

PROFESSIONAL ACTIVITIES

International Journals

- Journal of Biomedical Graphics and Computing (JBGC)

Editorial board member

- IEEE Transactions on Medical Imaging (TMI)
Reviewer
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
Reviewer
- IEEE Transactions on Multimedia (TMM)
Reviewer
- International Journal of Computer Aided Radiology and Surgery (IJCARS)
Reviewer
- IET Computer Vision
Reviewer
- IET Information Security
Reviewer

International Conferences

- International Conference on BioMedical Engineering and Informatics (BMEI)
Reviewer (2011)
- Medical Image Computing and Computer Assisted Intervention (MICCAI)
Reviewer (2011, 2012, 2013, 2014, 2015, 2016)
- Biomedical Robotics and Biomechanics (BioRob)
Reviewer (2012)
- IEEE International Conference on Multimedia & Expo (ICME)
Reviewer (2013, 2014) – [IEEE ICME Quality Reviewer Award](#)
- Information Processing in Computer Assisted Intervention (IPCAI)
Reviewer (2014, 2015, 2016, 2017)
- IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)
Reviewer (2014)

External Consultancies

- Clothes Network Ltd. (www.clothesnetwork.com) - *Senior Scientific Advisor*
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LANGUAGES

- **Italian** – Native speaker
- **English** – Fluent.
 - TOEIC score: 990/990. March 2017.
- **Japanese** – Upper intermediate
 - JLPT N3 score: 146/180 (top 2% in Japan). December 2016.
- **Spanish** – Conversational
 - One year of formal study while at Imperial College London, 2006-2007. Exam mark: 80%.