Prof. GIANCARLO IANNIZZOTTO

Short Curriculum and list of publications

Prof. Giancarlo Iannizzotto is Associate Professor of Human-Computer Interaction at the Department of Cognitive Sciences, Psychology, Education and Cultural Studies (COSPECS), University of Messina (Italy).

Education:

Giancarlo Iannizzotto received the Dr. Eng. degree in electronics engineering from the University of Catania, Italy, in 1994 and the Ph.D. in Computer Science from the same University in February, 1998.

Employment history:

- From 1993 to 1996 he developed his Dr. Eng. Degree thesis and his PhD thesis at the Istituto di Informatica e Telecomunicazioni, University of Catania, while collaborating with several research project at the same department.
- Since 1996 until 2006 he was Assistant Professor at the Faculty of Engineering, University of Messina, Italy.
- From 2006 to 2012 he was Associate Professor at the same Faculty.
- Since 2012 he is Associate Professor with the Department of Cognitive Sciences, Psychology, Education and Cultural Studies (COSPECS) at the University of Messina.
- Past (2021-2023) responsible for the HuM-HI Human-Machine Hybrid Intelligence Lab at COSPECS.
- Co-founder of the academic spin-off Path s.r.l.

Prof. Iannizzotto was member of the Academic Senate at the University of Messina (2001-2004), vice-director of the CECUM (Centro di Calcolo, Centralized Computing Centre) at the University of Messina (2008-2013), and Rector Delegate for Computer Engineering services and research planning at the University of Messina (2013).

Since 2009, he is Senior Member of the Institute of Electrical and Electronics Engineers (IEEE) and since 2014 he is member of the IEEE-IES Technical Committee on Factory Automation, subcommittee for Computer Vision and Human-Machine Interaction in Industrial and Factory Automation.

Prof. Iannizzotto is also serving since 2011 as an Evaluator and as a Project Reviewer for the European Commission.

Research:

Giancarlo Iannizzotto's research activity mainly focuses on the fields of image analysis and processing, applied Artificial Intelligence, Computer Vision and Human-Computer Interaction (HCI), with particular attention to Design for All and HCI for impaired users. Since 1994 he participated in several national and international research projects.

He has collaborated with MediaLab at the University of Catania as the coordinator of a research group on content-based image storage and retrieval and of another group on shared virtual reality applications for e-learning.

Since August, 2000 till February, 2001 he was visiting professor at the Seoul National University (SNU), Seoul, South Korea, leading a research group working on Computer Vision applications for Human-Computer Interaction (HCI).

At the Faculty of Engineering, University of Messina, he directed the VisiLAB Computer Vision Laboratory from 2001 to 2012.

Since 2004 until 2006 he was responsible for the Messina Research Unit of the National PRIN04 Project "Studio e sviluppo di un sistema per il controllo ed il monitoraggio in tempo reale dei territori per la prevenzione degli incendi".

He collaborated with ST Microelectronics, Italian National Institute for Nuclear Physics (INFN), Italian National Council for Research (CNR), the CINI consortium, the Kore University of Enna (Italy).

Prof. Iannizzotto recently participated in several regional research projects:

- Italian Regional Research Projects (P.O.R. Sicilia): "PRIORITARIO- Piattaforma per l'implementazione, la gestione e l'integrazione distribuita di servizi, dati, modelli e strumenti innovativi di screening precoce, analisi, personalizzazione e monitoraggio dei disturbi del neurosviluppo", PON ReC Sicilia

- Italian Regional Research Projects (P.O.R. Sicilia): CCE – Architettura innovativa per la gestione digitale dei dati clinici in ambito oncologico" - PO FESR 2007-2013 Sicilia.

- Italian Regional Research Projects (P.O.R. Sicilia): Progetto "IPSE Industry Process Safety Engineering" - PO FESR 2007-2013 Sicilia.
- Italian Regional Research Projects (P.O.R. Sicilia): Progetto "SAFeMOD: Safery Modeling for High Risk Industrial Application" - FESR 2007-2013 Sicilia

He was also responsible for the research contracts:
- "Telerehabilitation, counseling and training in Rett Syndrome." granted by AIRETT foundation, within the Global Grant n. GG1640522 Rotary International (2020-2022).
- "SIS System for Improved Safety in workplaces", granted by Automation Service S.r.L, within a research project funded by the Italian Ministry of Economical Development (MISE) (2020/2023).

He is currently responsible for the project DEFENDED – founded by a BaC PNRR research contract issued by the University of Bologna (Italy).

Prof. Iannizzotto is author and co-author of several publications in the fields of image retrieval, image processing and analysis, computer vision and human-computer interaction. He is also Associate Editor for International Journal on Real-time Image Processing and reviewer for several international journals (e.g.: IEEE Transactions on Image Processing, IEEE Transactions on Pattern Analisys and Machine Intelligence, Real-Time Imaging, Image and Vision Computing, IEEE Transactions on Dependable and Secure Computing, IEEE/IES TII, IEEE/IES TIE, ...).
Member of the IEEE-IES Technical Committee on Factory Automation, subcommittee for Computer Vision and Human-Machine Interaction in Industrial and Factory Automation.
Program chair for the conferences: IEEE/IES HSI2009, IEEE/IES HSI2010 and IEEE/IES HSI2011.
Co-chair of the Technical Program Committee for the conferences: IEEE/IES HSI2012 and IEEE/IES HSI2013.
Program Co-Chair of Track 6 - "Computer Vision and Human-Machine Interaction in Industrial and Factory Automation" for IEEE ETFA 2021, 2022, 2023, 2024.

Articles published on international, peer-reviewed journals:

[IR 2] G. Iannizzotto, A. Puliafito, L. Vita: "A new method for extracting and representing object contours in real images", Information Sciences 93, 159-185 (1996), Elsevier Science Inc.

[IDB 4] G. Iannizzotto, A. Puliafito, L. Vita: "Using the Median Distance to Compare Object Shapes in Content-Based Image Retrieval", Multimedia Tools and Applications 8, 197-217, March 1999, Kluwer cademic Publishers.

[IP00] G. Iannizzotto and L. Vita: "Fast and accurate edge-based segmentation with no contour smoothing in 2-d real images", IEEE Transactions on Image Processing, Vol. 9, no.7, 1232-1237, Luglio 2000, IEEE.

[OLOT] G. Iannizzotto and L. Vita. "On-line object tracking from color video". Journal on Real-Time Imaging (RTI), Volume 8, Issue 2, April 2002, Pages 145-155, Academic Press.

[MPUI05-LN] G. Iannizzotto, F. La Rosa, C. Costanzo and P. Lanzafame (2005). A Multimodal Perceptual User Interface for Collaborative Environments - Computer Vision for Augmented Reality & Computer Augmented Enviroments . LECTURE NOTES IN COMPUTER SCIENCE, vol. 3617, p. 115-122, ISSN: 0302-9743, doi: 10.1007/11553595_14

[EYE07] Marino S, Sessa E, Di Lorenzo G, Lanzafame P, Scullica G, Bramanti A, La Rosa F, Iannizzotto G., Bramanti P., Di Bella P. (2007). Quantitative Analysis of Pursuit Ocular Movements in Parkinson's Disease by Using a Video-Based Eye Tracking System. EUROPEAN NEUROLOGY. vol. 58, pp. 193-197 ISSN: 0014-3022.

[ND09] F. Battaglia, G. Iannizzotto, F. La Rosa (2009). An open and portable software development kit for handheld devices with proprietary operating systems. IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol. vol.55, no.4; p. 2436-2444, ISSN: 0098-3063, doi: 10.1109/TCE.2009.5373821

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[ND12] Battaglia F., Iannizzotto G. (2012). An open architecture to develop a handheld device for helping visually impaired people. IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol. 58, p. 1086-1093, ISSN: 0098-3063, doi: 10.1109/TCE.2012.6311360

[IJPRAI2014] G. Iannizzotto, L. Lo Bello (2014). A Multilevel Modeling Approach for Online Learning and Classification of Complex Trajectories for Video Surveillance. INTERNATIONAL. JOURNAL OF PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE, vol. 28, p. 1455009-1455032, ISSN: 0218-0014, doi: 10.1142/S021800141455009X

[MD2014] F. Battaglia, G. Iannizzotto, L. Lo Bello (2014). A biometric authentication system based on face recognition and rfid tags. MONDO DIGITALE, p. 1-17, ISSN: 1720-898X

[TCSVT2016] F. Battaglia, G. Iannizzotto, L. Lo Bello (2016). A person authentication system based on RFID tags and a cascade of face recognition algorithms. IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol. 27, p. 1676-1690, ISSN: 1051-8215, doi: 10.1109/TCSVT.2016.2527299

[CurrPSY2019] Caprì, Tindara, Gugliandolo, Maria Cristina, Iannizzotto, Giancarlo, Nucita, Andrea, Fabio, Rosa Angela (2019). The influence of media usage on family functioning. CURRENT PSYCHOLOGY, vol. 2019, p. 1-11, ISSN: 1046-1310, doi: 10.1007/s12144-019-00204-1

[DTP2019] Fabio, Rosa Angela, Capri, Tindara, Nucita, Andrea, MOHAMMADHASANI, Nasrin, Iannizzotto, Giancarlo (2019). EYE-GAZE DIGITAL GAMES IMPROVE MOTIVATIONAL AND ATTENTIONAL ABILITIES IN RETT SYNDROME. DEFEKTOLOSKA TEORIJA I PRAKTIKA, vol. 19, p. 105-126, ISSN: 1409-6099, doi: 10.19057/jser.2019.43

[COGENG2019] Fabio, Rosa Angela, Iannizzotto, Giancarlo, Nucita, Andrea, Caprì, Tindara (2019). Adult listening behaviour, music preferences and emotions in the mobile context. Does mobile context affect elicited emotions?. COGENT ENGINEERING, vol. 6, p. 1-17, ISSN: 2331-1916, doi: 10.1080/23311916.2019.1597666

[LSD2019] Fabio, Rosa & Caprì, Tindara & Iannizzotto, Giancarlo & Pergolizzi, Giorgia & Nucita, Andrea. (2019). The role of the avatar in increasing attention, memory and wellbeing indexes in girls with Rett Syndrome. Life Span and Disability. 91-94.

[Electr2020a] Caprì, Tindara, Fabio, Rosa Angela, Iannizzotto, Giancarlo, Nucita, Andrea (2020). The TCTRS Project: A Holistic Approach for Telerehabilitation in Rett Syndrome. ELECTRONICS, vol. 9, p. 491-501, ISSN: 2079-9292, doi: 10.3390/electronics9030491

[Information2020] Iannizzotto, G.; Nucita, A.; Fabio, R. A.; Capri, T.; Lo Bello, L. (2020). Remote eye-tracking for cognitive telerehabilitation and interactive school tasks in times of COVID-19. DOI:10.3390/info11060296. pp.296-304. In INFORMATION - ISSN:2078-2489 vol. 11 (6)

[JADD2021] Caprì, T., Nucita, A., Iannizzotto, G. et al. Telerehabilitation for Improving Adaptive Skills of Children and Young Adults with Multiple Disabilities: a Systematic Review. Rev J Autism Dev Disord 8, 244–252 (2021). https://doi.org/10.1007/s40489-020-00214-x

[BMC2021] Fabio, Rosa & Pergolizzi, Giorgia & Nucita, Andrea & Iannizzotto, Giancarlo & Caprì, Tindara. (2021). The role of a virtual avatar in attention and memory tasks in Rett syndrome. BMC Neurology. 21. 10.1186/s12883-021-02212-w.

[FrontiersPsy2021] Dovigo Lucia, Caprì Tindara, Iannizzotto Giancarlo, Nucita Andrea, Semino Martina, Giannatiempo Samantha, Zocca Lia, Fabio Rosa Angela (2021). Social and Cognitive Interactions Through an Interactive School Service for RTT Patients at the COVID-19 Time. Frontiers in Psychology. Vol. 12. 2021. DOI: 10.3389/fpsyg.2021.676238. ISSN:1664-1078

[ApplSci2021] Bernava, Giuseppe, Andrea Nucita, Giancarlo Iannizzotto, Tindara Caprì, and Rosa A. Fabio. 2021. "Proteo: A Framework for Serious Games in Telerehabilitation" Applied Sciences 11, no. 13: 5935. https://doi.org/10.3390/app11135935

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Chapters in international, peer reviewed books:

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[PIO 3] PULIAFITO A, S. RICCOBENE, G. IANNIZZOTTO, L. VITA (1999). Modeling of a multimedia system for VOD services. In: E. Gelembe, K.Bagchi, G.Zobrist. Network Systems Design. p. 187-201, NEWARK:Gordon and Breach Science Publishers, ISBN: 90-5699-635-5

[CNN-07] Iannizzotto G., Lanzafame P, La Rosa F. (2007). A Real-Time Solution to the Image Segmentation Problem: CNN-Movels. In: GORO OBINATA, ASHISH DUTTA. Vision-Systems Segmentation and Pattern Recognition. (pp. 99-115). ISBN: 978-3-902613-05-9. VIENNA: I-Tech Education and Publishing (AUSTRIA).

[CNN-08] G. Iannizzotto, F. La Rosa (2008). A SIFT-Based Fingerprint Verification System Using Cellular Neural Networks. In: Peng-Yeng Yin. Pattern Recognition. p. 523-536, VIENNA: I-Tech Education and Publishing, ISBN/ISSN: 978-3-902613-24-4

[CVMA2010] G. Iannizzotto, F. La Rosa (2010) A Modular Framework for Vision-Based Human Computer Interaction. In: Jinjun Wang, Jian Cheng and Shuqiang Jiang. Computer Vision for Multimedia Applications: Methods and Solutions: Methods and Solutions, (pp. 38-59), ISBN: 978-1-60960-024-2, Hershey, PA: IGI Global, 31 ott 2010

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[LNNS2023] Iannizzotto, G., Nucita, A., Lo Bello, L., Caprì, T., Fabio, R. A. (2023). Are Special Needs Only for Special Students? A Few Lessons Learnt from a year of Very Special Distance Learning. DOI: 10.1007/978-3-031-14605-3_9. In Artificial intelligence and economics: the key to the future - ISBN: 978-3-031-14604-6. In LECTURE NOTES IN NETWORKS AND SYSTEMS vol. 523

Articles published on international, peer-reviewed confecence proceedings:

[IR 1] G. Iannizzotto, A. Puliafito, G. Salvato: "A new method for extracting and representing object contours in real images", ICARV'94, 8-11 Nov. 1994, Singapore. IEEE.

[PIO 1] G. Iannizzotto, A. Puliafito, S. Riccobene, L. Vita: "AVDA: A disk array system for multimedia services", Intern. Conference on High Performance Computing, 27-30 Dicembre 1995, Nuova Delhi, India. IEEE.

[MM 01] G. Iannizzotto, A. Puliafito, L. Vita: "Video Conferencing: General Remarks", CTC Link'96, 26-30 Agosto 1996, Dublino, Irlanda.

[IDB 2] G. Iannizzotto, L. Vita: "A fast, accurate method to segment and retrieve object contours in real images", ICIP 96, 16-19 Settembre 1996, Losanna, Svizzera. IEEE.

[IDB 3] G. Iannizzotto, A. Puliafito, L. Vita: "A New Shape Distance for Content Based Image Retrieval", MMM96, 12-15 Novembre 1996, Tolosa, Francia.

[IDB 5] G. Iannizzotto, A. Puliafito, L. Vita: "Design and Implementation of a Content-based Image Retrieval Tool", 2nd International Workshop on Software Engineering for Parallel and Distributed Systems, 304-310, 12-15 Maggio 1997, Boston, Massachussets, IEEE.

[FIR99] G. Iannizzotto and L. Vita: "Edge-based image segmentation with movels", In ICMCS 99, 767-771, Firenze, Italia, giugno 1999, IEEE.

[VIS99] G. Iannizzotto and L. Vita: "A multiscale turning angle representation of object shapes for image retrieval", Lecture Notes on Computer Science 1614, 609-616, June,1999, Springer-Verlag.

[RTMOVAT] G. Iannizzotto and L. Vita. "Real-time object tracking with movels and affine transformations", in ICIP2000, Vol. I, 316-318,Vancouver, Canada, Settembre 2000, IEEE.

[STNN] M Branciforte, R. Caponetto, F. Italia, F. Bartolone, G. Iannizzotto, and M.G. Xibilia "Low cost stereo vision system by using neural network", Proc. of CLAWAR'2000 3rd International Conference on Climbing and Walking Robots 2-4 October 2000 MADRID, SPAIN

[KIW] G. Iannizzotto, "Low-Cost Computer Vision Approaches for Human-machine Interaction", in The First Korea-Italy Workshop on Web-Based Information Analysis, Seoul, Corea del Sud, 6-7 Novembre 2000.

[RTGR] G. Iannizzotto, M. Villari, L. Vita, "Hand tracking for human-computer interaction with *Graylevel VisualGlove*: Turning back to the simple way". In PUI 2001, Orlando, FL, USA. Novembre 2001, ACM .

[VB01] C. Costanzo, G. Iannizzotto, F. La Rosa, VirtualBoard: Real-Time visual gesture recognition for natural human-computer interaction, WPDRTS 03 at IEEE International Parallel and Distributed Processing Symposium (IPDPS'03), p. 112a, April 22 - 26, 2003, Nice, France, IEEE.

[CNN03] G. Iannizzotto, F. La Rosa, A. Rizzo, M.G. Xibilia, "2D Still-Image segmentation with CNN-Amoeba", IEEE CAMP 2003 International Workshop on Computer Architectures for Machine Perception, May 12-14, 2003, New Orleans, USA. IEEE

[HCI03] Francesco La Rosa, Carlo Costanzo, Giancarlo Iannizzotto, "VisualPen: A Physical Interface for natural human computer interaction", ACM MobileHCI 2003, 8-11 Settembre 2003, Udine (Italy), Workshop on Real World User Interface.

[MPUI05] G. Iannizzotto, F. La Rosa, C. Costanzo and P. Lanzafame - A Multimodal Perceptual User Interface for Collaborative Environments - Computer Vision for Augmented Reality &

Computer Augmented Enviroments at 13th International Conference on Image Analisys and Processing ICIAP 2005, Cagliari (Italy), 6-8 Settembre 2005.

[BADGE05] C. Costanzo, G. Iannizzotto, P. Lanzafame, F. La Rosa - Badge3D for Visually Impaired - 1st IEEE Workshop on Computer Vision Applications for the Visually Impaired at International Conference on Computer Vision and Pattern Recognition, CVPR 2005 San Diego, CA, USA 20-25 Giugno 2005.

[CNN05] G. Iannizzotto, P. Lanzafame, F. La Rosa - A CNN-based Framework for 2D Still-image Segmentation - IEEE CAMP 2005 International Workshop on Computer Architectures for Machine Perception. Palermo (Italy), Luglio 2005.

[HCII2005] G. Iannizzotto - Vision-based Human-Computer Interaction at VISILab, Invited talk at HCI International 2005, 22-27 Luglio 2005, Las Vegas, Nevada, USA.

[CNN05-02] G. Iannizzotto, F. La Rosa, P. Lanzafame - An edge-based Segmentation Technique for 2D still-image with Cellular Neural Networks, 10th IEEE International Conference on Emerging Technologies and Factory Automation, Catania, Italy, 19-22 September 2005

[ETFA05] G. Iannizzotto, C. Costanzo, P. Lanzafame and F. La Rosa - A Vision-based User Interface for Real-Time Controlling Toy Cars, 10th IEEE International Conference on Emerging Technologies and Factory Automation, Catania, Italy, 19-22 September 2005

[ICMI2005] Giancarlo Iannizzotto, Carlo Costanzo, Francesco La Rosa, Pietro Lanzafame - A multimodal perceptual user interface for video-surveillance environments. 7th International Conference on Multimodal Interfaces, ICMI 2005, Trento, Italy, October 4-6, 2005. ACM 2005, ISBN 1-59593-028-0, pp. 45-52

[IASTED-HCI 2005] G. Iannizzotto, P. Lanzafame, F. La Rosa, and C. Costanzo - Multimodal Interaction for Mobile Robot Guidance. The IASTED International Conference on Human-Computer Interaction, IASTED HCI 2005, Phoenix, AZ, USA, November 14 – 16, 2005

[ENACTIVE05] G. Iannizzotto, P. Lanzafame, F. La Rosa and C. Costanzo, "A Graspable vision-based Human-Computer Interface", 2nd International Conference on Enactive Interfaces, November 17-18, 2005, Genoa, Italy.

[AIxIA05] G. Iannizzotto, F. La Rosa, C. Costanzo and P. Lanzafame, "A Vision-based Framework for Human Computer Interaction", 2nd AIxIA Workshop on Ambient Intelligence, September 20, 2005, Milan, Italy.

[ANIPLA06-1] Iannizzotto G., La Rosa F. (2006). A wearable computer for sensors data monitoring and visualization in autonomus exploration systems. In: Proceedings of International Congress on 'Methodologies for Emerging Technologies in Automation'. International Congress on 'Methodologies for Emerging Technologies in Automation'. Roma. 15-16 Novembre 2006. (pp. 100-110). ROMA: (ITALY).

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