Francesco Ferrise

Short CV

Associate professor at Politecnico di Milano (www.polimi.it), Department of Mechanical Engineering, since November 2014.

Assistant professor (ricercatore) from June 2008 to October 2014.

He received a **Ph.D.** in *Virtual Prototypes and Real Products* from Politecnico di Milano in 2010 with a thesis entitled *"Multimodal Interaction in the Aesthetic Product Design"* and a **master degree** (laurea vecchio ordinamento) cum laude in Mechanical Engineering in 2005 from Universita' della Calabria.

Research interests:

- o multisensory interaction in virtual environments;
- o virtual prototyping;
- o multisensory user experience design;
- o virtual and augmented reality;
- o haptic and multimodal interfaces design;
- o ergonomics;
- o human-in-the-loop simulation.

Contacts

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Participation as researcher to National and EU Projects

- o FP6-IST-5-034525 ***SATIN*** Sound and Tangible Interfaces for Novel Product Design, link
- o FP6-IST-2002-001996 ***Touch and Design*** link
- o MIUR PRIN 2006 ***PUODARSI*** Product User-Oriented Development Based on Augmented Reality and Interactive Simulation, link
- o PON ***VIS4FACTORY*** Sistemi Informativi Visuali per i processi di fabbrica nel settore dei trasporti, link
- o FESR ***ABILITY***, Telerehabilitation: Integrated platform Enabling the Remote Delivery and control of physical and cognitive Rehabilitation, and Self Management

Participation to the organization of scientific events

Member of the scientific, technical program committee, program committee or international organizing committee of the following conferences:

- o **IEEE VR 2018 CONFERENCE PAPERS** link
- o **CAD conference 2018** link
- o **TE 2018** link
- o **FLORENCE HERI-TECH 2018** link
- o **VSMM 2017** link
- o **IEEE 3DUI 2017** link
- o **ICED 2017** link
- o **SALENTOAVR 2017** link
- o **CAD conference 2017** link
- o **ICORD 2017** link
- o **IEEE 3DUI 2016** link
- o **CAD conference 2016** link
- o **EUROVR 2015** link
- o **DIGITAL HERITAGE 2015** link
- o **ICED 2015** link
- o **IEEE 3DUI 2015** link
- o **ACM IUI 2015** link
- o **CAD conference 2015** link
- o **ICORD 2015** link
- o **CAD conference 2014** link
- o **IEEE/ASME MESA 2014** link
- o **IEEE ROMAN 2014** link
- o **VSMM 2014** link
- o **DIGITAL HERITAGE 2013** link
- o **VSMM 2012** link

And also:

- o Co-chair of the special session **"AR applications in Industry 4.0"** during the conference **FAIM 2017** link
- o Chair of the Virtual Environments & Systems (VES) symposium of **ASME IDETC/CIE 2016** link
- o Associate chair for the **ACM CHI 2016 Late-Breaking Work** category link
- o Co-chair of the Virtual Environments & Systems (VES) symposium of **ASME IDETC/CIE 2015** link
- o Secretary of the Virtual Environments & Systems (VES) symposium of **ASME IDETC/CIE 2014** link
- o One of the program chairs of **EUROVR 2014** link
- o Involved in the best paper award committee of **ICAT-EGVE 2014** link
- o Involved in the organization of **VSMM 2012** link
- o Member of the Local Organising Committee of **ASME WINVR2011** link

Journals

- o Associate Editor for **ASME Journal of Computing and Information Science in Engineering (JCISE)**
- o Associate Editor for **Frontiers in ICT, Frontiers in Psychology and Frontiers in Digital Humanities,** section Human-Media Interaction
- o Member of the Editorial Board of Mathematical Problems in Engineering (HINDAWI)
- o Guest Editor for **PRESENCE: Teleoperators & Virtual Environments**
- o Previously Guest Editor for **ASME Journal of Computing and Information Science in Engineering (JCISE)**

Memberships

Currently member of the following association:

- o ASME

Has been member of the Eurographics association, ACM and IEEE.

Member of the board of the **Haptics Magazine**.
Member of the board of the **Eurographics Italian Chapter** in 2013 and 2014. Member of the **Special Interest Group on Haptics** and member of the Technical Committee of ASME/CIE VES (secretary in 2014, co-chair in 2015 and chair in 2016).

Summer schools

Organizer of the following summer schools on Virtual Prototyping:

- o First edition (2009) **VP summerschool** link
- o Second edition (2010) **2010 VP summerschool** link
- o Third edition (2012) **2012 VP summerschool** link
- o Fourth edition (2013) **2013 VP summerschool** link
- o Fifth edition (2014) **2014 VP summerschool** link
- o Sixth edition (2015) **2015 VP summerschool** link
- o Seventh edition (2016) **2016 VP summerschool** link
- o Eighth edition (2017) **2017 VP summerschool** link

Publications

Journals

[J1]   R. Etzi, **F. Ferrise**, M. Bordegoni, M. Zampini, A. Gallace, "The effect of visual and auditory information on the perception of pleasantness and roughness of virtual surfaces ", Multisensory Research, in press.

[J2]   A. F. Ciuffini, C. Di Cecca, **F. Ferrise**, C. Mapelli, S. Barella, "Application of

Virtual/Augmented Reality in steelmaking plants layout planning and logistics", La Metallurgia Italiana, 7/8, 5-10, 2016

[J3] C. Di Cecca, A. F. Ciuffini, **F. Ferrise**, C. Mapelli, A. Gruttadauria, "Study about the augmented reality adoption in the maintenance in steelmaking area", La Metallurgia Italiana, 7/8, 11-16, 2016

[J4] **F. Ferrise**, S. Graziosi, M. Bordegoni "Prototyping strategies for multisensory product experience engineering", Journal of Intelligent Manufacturing, available online, doi: http://dx.doi.org/10.1007/s10845-015-1163-0

[J5] **F. Ferrise**, M. Bordegoni, L. Marseglia, M. Fiorentino, A. E. Uva *"Can Interactive Finite Element Analysis Improve the Learning of Mechanical Behavior of Materials? A Case Study"*, Computer-Aided Design and Applications, Taylor and Francis, in press, 2014, doi: http://dx.doi.org/10.1080/16864360.2014.949573

[J6] M. Bordegoni, U. Cugini, **F. Ferrise**, S. Graziosi *"A method for bringing user experience upstream to design"*, Virtual and Physical Prototyping, Taylor and Francis, 9(3), 181-194, 2014, doi: http://dx.doi.org/10.1080/17452759.2014.934574

[J7] S. Graziosi, **F. Ferrise**, G. Phillips Furtado, M. Bordegoni *"Reverse engineering of interactive mechanical interfaces for product experience design"*, Virtual and Physical Prototyping, Taylor and Francis, 9(2), 65-79, 2014, doi: http://dx.doi.org/10.1080/17452759.2014.893810

[J8] **F. Ferrise**, G. Caruso, M. Bordegoni *"Multimodal Training and Tele-Assistance systems for the Maintenance of Industrial Products"*, Virtual and Physical Prototyping, Taylor and Francis, 8(2), 113-126, 2013, doi: http://dx.doi.org/10.1080/17452759.2013.798764

[J9] **F. Ferrise**, S. Graziosi, G. Phillips Furtado, M. Bordegoni, D. Bongini *"Re-engineering of the haptic feedback of a dishwasher door"*, Computer-Aided Design and Applications, 10(6), 995-1006, 2013, doi: http://dx.doi.org/10.3722/cadaps.2013.995-1006

[J10] M. Bordegoni, **F. Ferrise** *"Designing interaction with consumer products in a multisensory VR environment"*, Virtual and Physical Prototyping, Taylor and Francis, 8(1), 51-64, 2013, doi: http://dx.doi.org/10.1080/17452759.2012.762612

[J11] **F. Ferrise**, M. Bordegoni, S. Graziosi *"A method for designing users' experience with industrial products based on a multimodal environment and Mixed Prototypes"*, Computer-Aided Design and Applications, 10(3), 461-474, 2013 doi: http://dx.doi.org/10.3722/cadaps.2013.461-474 **"Editor's Choice for 2013"** link

[J12] **F. Ferrise**, M. Bordegoni, U. Cugini *"Interactive Virtual Prototypes for testing the interaction with new products"*, Computer-Aided Design and Applications, 10(3), 515-525, 2013 doi: http://dx.doi.org/10.3722/cadaps.2013.515-525

[J13] M. Bordegoni, U. Cugini, **F. Ferrise** *"Requirements for an enactive tool to support skilled designers in aesthetic surfaces definition"*, International Journal on Interactive Design and Manufacturing, 6 (2), 83-91. Springer Paris, doi: http://dx.doi.org/10.1007/s12008-012-0142-3

[J14] M. Bordegoni, **F. Ferrise**, M. Covarrubias, M. Antolini, *"Geodesic Spline Interface for Haptic Curve Rendering"*, IEEE Transactions on Haptics, 4(2), 111-121, March-April 2011, IEEE Computer Society, doi: http://dx.doi.org/10.1109/TOH.2011.1

[J15] M. Bordegoni, **F. Ferrise**, M. Covarrubias, M. Antolini, *"Haptic and sound interface for shape rendering"*, Presence: Teleoperators and Virtual Environments, 19(4), 341-363,The MIT Press, August 2010, doi: http://dx.doi.org/10.1162/PRES_a_00010

[J16] M. Bordegoni, **F. Ferrise**, M. Ambrogio, F. Caruso, F. Bruno, *"Data exchange*

and multi-layered architecture for a collaborative design process in virtual environments ", International Journal on Interactive Design and Manufacturing, 4(2), 137-148, May 2010, Springer, doi: http://dx.doi.org/10.1007/s12008-010-0092-6

[J17] B. Rodrigues de Araújo, T. Guerreiro, M. J. Fonseca, J. A. Madeiras Pereira, M. Bordegoni, **F. Ferrise** , M. Covarrubias, M. Antolini, *"An Haptic based Immersive Environment for Shape Analysis and Modeling"*, Journal of Real-Time Image Processing - JRTIP, 5(2), 73-90, ISSN: 1861-8200, 2010, Springer, doi: http://dx.doi.org/10.1007/s11554-009-0139-8

Book Chapters

[BC1] M. Bordegoni, **F. Ferrise**, U. Cugini *"Interactive Virtual Prototyping for Improving the Design of Consumer Products"*, In. ACIER 2014 Computer-Aided Product and Process Development, ASME, 2014

[BC2] M. Bordegoni, U. Cugini, **F. Ferrise** *"Multisensory User Experience Design of Consumer Products"*, In. Emotional Engineering vol. 2, Ed. S. Fukuda, pp. 219-242, Springer London, 2013, doi: http://dx.doi.org/10.1007/978-1-4471-4984-2_14

International Conferences

[IC1] M. Gattullo, A. E. Uva, M. Fiorentino, G. W. Scurati, **F. Ferrise**, "From paper manual to AR manual: do we still need text?", FAIM 2017 – 27th International Conference on Flexible Automation and Intelligent Manufacturing. Modena (Italy), June 27-30, 2017

[IC2] L. Delbene, R. Guirado, E. Robledo, D. Ruscio, **F. Ferrise**, D. Arianshyah, M. Bordegoni, "Design of a haptic/auditory warning interface to improve user communication with autonomous vehicles", ICIDM 17, July 17-19, 2017, Milan, Italy

[IC3] M. C. Escobar Alarcon, **F. Ferrise**, "Design of a Wearable Haptic Navigation Tool for Cyclists", ICIDM 17, July 17-19, 2017, Milan, Italy

[IC4] A. Chirico, A. D'ausilio, S. Graziosi, **F. Ferrise**, A. Gallace, C. Mosconi, M. J. Cazzaniga, V. Zurloni, M. Elia, F. Cerritelli, F. Mantovani, P. Cipresso, G. Riva, A. Gaggioli, "The Sensorimotor Dimension of the Networked Flow: An Exploratory Study Using an Interactive Collaborative Platform", 22nd Annual CyberPsychology, CyberTherapy & Social Networking Conference (CYPSY22) June 26 to 28, 2017, Wolverhampton, England

[IC5] R. Masoni, **F. Ferrise**, M. Bordegoni, M. Gattullo, A. E. Uva, M. Fiorentino, E. Carrabba, M. Di Donato, "Supporting remote maintenance in industry 4.0 through augmented reality", FAIM 2017 – 27th International Conference on Flexible Automation and Intelligent Manufacturing. Modena (Italy), June 27-30, 2017

[IC6] D. Monici, S. Graziosi, **F. Ferrise**, M. Bordegoni, "Design of a smart alarm clock to foster sustainable urban mobility", ICED 17, Aug. 21-25, 2017, Vancouver, Canada

[IC7] A. Chirico, S. Graziosi, **F. Ferrise**, A. Gallace, C. Mosconi, M. J. Cazzaniga, V. Zurloni, M. Elia, F. Cerritelli, F. Mantovani, A. D'Ausilio, P. Cipresso, G. Riva, A. Gaggioli, "COLLEGO: An Interactive Platform for Studying Joint Action During an Ecological Collaboration Task", MindCare 2016, November 28-29, Barcelona,

Spain

[IC8] S. Filippi, D. Barattin, S. Graziosi, **F. Ferrise**, M. Bordegoni, "A Discussion on Specifications and Prototyping in Designing for Sustainable Behavior", ASME 2016 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference Volume 1A: 36th Computers and Information in Engineering Conference Charlotte, North Carolina, USA, August 21–24, 2016, doi: http://dx.doi.org/10.1115/DETC2016-60542

[IC9] C. Romagnoli, M. Bordegoni, **F. Ferrise**, *"A Multimodal Virtual Environment Based on Haptic Interfaces for Upper-limb Rehabilitation"*, ASME 2015 International Design Engineering Technical Conferences (IDETC) & Computers and Information in Engineering Conference (CIE), 2015.

[IC10] S. Graziosi, **F. Ferrise**, A.A.M. Costanzi, M. Bordegoni, *"The Use of Multisensory Feedback to Make Users Behave in a Sustainable Way"*, DS 80-11 Proceedings of the 20th International Conference on Engineering Design (ICED 15) Vol 11: Human Behaviour in Design, Design Education, pp.011-020. **"Reviewers' Favourite" Award**

[IC11] R. Etzi, **F. Ferrise**, M. Bordegoni, A. Gallace, *"Simulating hedonic perception of surfaces: The role of vision and touch "*, work in progress poster at the IEEE World Haptics Conference, 2015.

[IC12] R. Etzi, **F. Ferrise**, M. Bordegoni, A. Gallace, *"Seeing and Touching Virtual Textures: a Study on Tactile Hedonic Perception"*, Poster at IMRF 2015 – 16th International Multisensory Research Forum, 2015.

[IC13] M. Bordegoni, **F. Ferrise**, E. Carrabba, M. Di Donato, M. Fiorentino, A.E. Uva, *"An Application Based on Augmented Reality and Mobile Technology to Support Remote Maintenance"*, Proceedings of EuroVR 2014, **"Best Industrial Impact Award"**

[IC14] A. Lavatelli, **F. Ferrise**, M. Bordegoni, *"Design of an open-source low cost 2DOF haptic device"*, Mechatronic and Embedded Systems and Applications (MESA), 2014 IEEE/ASME 10th International Conference on, pp.1,6, 10-12 Sept. 2014 doi: http://dx.doi.org/10.1109/MESA.2014.6935574

[IC15] M. Bordegoni, U. Cugini, **F. Ferrise**, S. Graziosi *"Prototyping for the product experience: an expample in the household appliances industry"*, ASME 2014 International Design Engineering Technical Conferences (IDETC) & Computers and Information in Engineering Conference (CIE), 2014.

[IC16] S. Graziosi, **F. Ferrise**, M. Bordegoni, *"Human-Centred Early Prototypes of Consumer Products: Insights from HCI"*, 13th INTERNATIONAL DESIGN CONFERENCE - DESIGN 2014, May 19th-22nd, 2014, Dubrovnik - Cavtat – Croatia.

[IC17] N. Beni, M. Grottoli, **F. Ferrise**, M. Bordegoni, *"Rapid Prototyping of Low Cost 1DOF Haptic Interfaces"* Haptics Symposium (HAPTICS), 2014 IEEE, pp.479,483, 23-26 Feb. 2014, doi: http://dx.doi.org/10.1109/HAPTICS.2014.6775502

[IC18] **F. Ferrise**, M. Bordegoni, U. Cugini, *"Functional modeling: a key point in CAD systems"*, ASME 2013 International Mechanical Engineering Congress & Exposition, 2013

[IC19] M. Bordegoni, **F. Ferrise**, F. Grani, J. Ram Bruun-Pedersen, S. Serafin *"Auditory feedback affects perception of effort when exercising with a Pulley machine"*, Multisensory Motor Behavior: Impact of Sound, Hannover, Germany; 09/2013, link: website

[IC20] **F. Ferrise**, G. Phillips Furtado, S. Graziosi, M. Bordegoni, *"Digitalizing and capturing haptic feedback in virtual prototypes for User Experience design,"*

Digital Signal Processing (DSP), 2013 18th International Conference on, pp.1,7, 1-3 July 2013 doi: http://dx.doi.org/10.1109/ICDSP.2013.6622823 **Invited Paper**

[IC21] S. Graziosi, **F. Ferrise**, M. Bordegoni, O. Ozbey, *"A method for capturing and translating qualitative user experience into design specifications: the haptic feedback of appliance interfaces"*, DS 75-7: Proceedings of the 19th International Conference on Engineering Design (ICED13), Design for Harmonies, Vol.7: Human Behaviour in Design, pp.427-436. **"Reviewers' Favourite" Award**

[IC22] **F. Ferrise**, M. Bordegoni, M. Fiorentino, A.E. Uva, *"Integration of realtime fem analysis and haptic feedback for hands-on learning of the mechanical behavior of materials"*, ASME 2013 International Design Engineering Technical Conferences (IDETC) & Computers and Information in Engineering Conference (CIE), Portland, Oregon

[IC23] S. Filippi, D. Barattin, **F. Ferrise**, M. Bordegoni, U. Cugini, *"Human in the loop: a model to integrate interaction issues in complex simulations"*, HCII 2013, Las Vegas, USA, 21-26 July 2013

[IC24] G. Phillips Furtado, **F. Ferrise**, S. Graziosi, M. Bordegoni, *"Optimization of the force feedback of a dishwasher door putting the human in the design loop"*, A. Chakrabarti and R. V. Prakash (eds.), ICoRD'13, Lecture Notes in Mechanical Engineering, 1-12, Springer India 2013, doi: http://dx.doi.org/10.1007/978-81-322-1050-4_74

[IC25] **F. Ferrise**, M. Bordegoni, U. Cugini, *"A methodology based on interactive Virtual Prototypes for a better design of consumer-product interaction"*, ASME 2012 International Mechanical Engineering Congress & Exposition, Volume 3: Design, Materials and Manufacturing, Parts A, B, and C, 433-440, November 9-15, 2012, Houston, Texas, doi: http://dx.doi.org/10.1115/IMECE2012-89490

[IC26] **F. Ferrise**, M. Bordegoni, U. Cugini, *"A multimodal environment for the simulation and training of maintenance operations: a case study"*, Proc. ASME. 45110, ASME/ISCIE 2012 International Symposium on Flexible Automation (ISFA2012), 653-661, doi: http://dx.doi.org/10.1115/ISFA2012-7141

[IC27] M. Bordegoni, U. Cugini, **F. Ferrise**, M. Covarrubias, *"Haptic interaction with virtual surfaces"*, ACM CHI Workshop The 3rd Dimension of CHI (3DCHI): Touching and Designing 3D User Interfaces" at CHI 2012

[IC28] M. Bordegoni, **F. Ferrise**, U. Cugini, *"Development of Virtual Prototypes based on visuo/tactile interaction for the preliminary evaluation of consumer products usage"*, A. Chakrobarti (ed.), CIRP Design 2012, 149-158, Springer-Verlag London 2013, doi: http://dx.doi.org/10.1007/978-1-4471-4507-3_15

[IC29] E. Gatti, G. Re, **F. Ferrise**, M. Bordegoni *"Curvature Discontinuities Discrimination During Dynamic Exploration of Surfaces"*, Proceedings of Fechner Day, Vol 27, 125-130, 2011, pdf

[IC30] **F. Ferrise**, M. Bordegoni *"Fast Prototyping of Virtual Replica of Real Products"*, In Proceedings of the 2011 international conference on Virtual and mixed reality: systems and applications - Volume Part II, Randall Shumaker (Ed.), Vol. Part II. Springer-Verlag, Berlin, Heidelberg, 318-326, 2011. doi: http://dx.doi.org/10.1007/978-3-642-22024-1_35

[IC31] **F. Ferrise**, M. Ambrogio, E. Gatti, J. Lizaranzu, M. Bordegoni *"Virtualization of Industrial Consumer Products for Haptic Interaction Design"*, Proceedings of ASME - WINVR 2011, pp.9-18, Milano, Italy, 27-29 June 2011. doi: http://dx.doi.org/10.1115/WINVR2011-5526

[IC32] M. Bordegoni, U. Cugini, **F. Ferrise** *"Design of haptic interaction of consumer products"*, Proceedings of Virtual Reality International Conference (VRIC 2011), Laval, France , 6-8 April 2011

[IC33] M. Bordegoni, **F. Ferrise**, J. Lizaranzu *"Use of Interactive Virtual Prototypes to define product design specifications: a pilot study on consumer products"*, Proceedings of IEEE - ISVRI 2011, Singapore, 19-23 March 2011, doi: http://dx.doi.org/10.1109/ISVRI.2011.5759592

[IC34] M. Bordegoni, **F. Ferrise**, J. Lizaranzu *"The use of Interactive Virtual Prototypes for products specification in the concept design phase"*, Proceedings of IEEE - VR 2011 poster session, Singapore, 19-23 March 2011, doi: http://dx.doi.org/10.1109/VR.2011.5759466

[IC35] **F. Ferrise**, M. Bordegoni, J. Lizaranzu, U. Cugini *"Simulation of the interaction with interfaces of industrial products in a multimodal environment"*, Proceedings of the International Conference on Research into Design (ICoRD '11), Edited by Amaresh Chakrabarti, Bangalore (India), 10-12 January 2011. doi: http://dx.doi.org/10.3850/978-981-08-7721-7_055

[IC36] **F. Ferrise**, M. Bordegoni, M. Ambrogio, G. Caruso *"AR application for pre-post processing in engineering analysis for non-expert users"*, Proceedings of the International Conference on Research into Design (ICoRD '11), Edited by Amaresh Chakrabarti, Bangalore (India), 10-12 January 2011 doi: http://dx.doi.org/10.3850/978-981-08-7721-7_054

[IC37] M. Bordegoni, U. Cugini, **F. Ferrise**, *"Analysis of designers' manual skills for the development of a tool for aesthetic shapes evaluation"*, Proceedings of IDMME - Virtual Concept 2010, Bordeaux (France), 20-22 October 2010

[IC38] M. Bordegoni, **F. Ferrise**, J. Lizaranzu, *"Multimodal interaction with a household appliance based on haptic, audio and visualization"*, Proceedings of IDMME - Virtual Concept 2010, Bordeaux (France), 20-22 October 2010

[IC39] **F. Ferrise**, M. Bordegoni, J. Lizaranzu, *"Product design review application based on a vision-sound-haptic interface"*, Proceedings of HAID 2010 (Haptic Audio Interaction Design), LNCS 6306, pp. 169–178, R. Nordahl et al. (Eds.), Copenhagen (Denmark), 16-17 September 2010, Springer, doi: http://dx.doi.org/10.1007/978-3-642-15841-4_18

[IC40] **F. Ferrise**, M. Ambrogio, E. Parise, *"A Mixed Reality annotation tool for collaborative design"*, Proceedings of the 8th International Symposium on Tools and Methods of Competitive Engineering, TMCE 2010, 2, pp. 1647-1660, 2010

[IC41] M. Bordegoni, **F. Ferrise**, M. Covarrubias, M. Antolini, *"A Linear Haptic Interface for the Evaluation of Shapes"*, ASME 2009 International Design Engineering Technical Conferences (IDETC) & Computers and Information in Engineering Conference (CIE), S. Diego, CA, USA, Agoust 30 - September 2, 2009, doi: http://dx.doi.org/10.1115/DETC2009-86953

[IC42] S. Valtolina, P. Mussio, B.R. Barricelli, M. Bordegoni, **F. Ferrise**, M. Ambrogio, *"Distributed knowledge creation, recording and improvement in collaborative design"*. 2nd International Symposium on Intelligent Interactive Multimedia Systems and Services-KES IIMSS 09. Mogliano Veneto, Italy, 16-17 Jul. 2009, doi: http://dx.doi.org/10.1007/978-3-642-02937-0_4

[IC43] M. Bordegoni, **F. Ferrise**, M. Ambrogio *"Haptic Interaction and Interactive Simulation in an AR environment for aesthetic product design"*HCI International 2009, San Diego, CA, USA, 19-24 Jul. 2009, doi: http://dx.doi.org/10.1007/978-3-642-02771-0_33

[IC44] M. Bordegoni, F. Caruso, **F. Ferrise**,M. Ambrogio, *"An Integrated Environment for Shape Modeling and Fluid-dynamic Analysis"*International Conference on Research into Design, ICoRD'09, Bangalore, India 7-9 Jan., 2009

[IC45] M. Bordegoni, **F. Ferrise**, S. Shelley, M. A. Alonso, D. Hermes, *'Sound and Tangible Interface for shape Evaluation and Modification'*, HAVE 2008 - IEEE

International Workshop on Haptic Audio Visual Environments and their Applications Ottawa, Canada, 12-14 Oct. 2008, doi: http://dx.doi.org/10.1109/HAVE.2008.4685315

[IC46] M. Bordegoni, **F. Ferrise**, M. Ambrogio, F. Bruno, F. Caruso, *"A Multi-layered Modelling Architecture for Virtual Design"*. Proceedings of IDMME - Virtual Concept 2008 Beijing, China, 8-10 Oct. 2008

[IC47] M. Bordegoni, **F. Ferrise**, M. Ambrogio, G. Caruso, F. Bruno, F. Caruso *"Mixed-Reality Environment based on Haptics and Interactive Simulation for product design review"*. 20th European Modeling and Simulation Symposium (Simulation in Industry) Campora San Giovanni, Amantea (CS), Italy, 17-19 Sep. 2008

[IC48] M. Bordegoni, G. Caruso, **F. Ferrise**, *"Mixed-Reality Environment based on Haptic Control System for a tractor cabin design review"*. CIRP Design Conference, Enschede, 7-9 Apr. 2008

[IC49] G. Caruso, U. Giraudo, **F. Ferrise**, M. Bordegoni, *"Haptic Control Sytem of a Tractor Cabin"*. HCI International 2007, Poster Session, Beijing, 22-27 Jul. 2007

[IC50] G. Caruso, U. Giraudo, **F. Ferrise**, M. Bordegoni, *"Ergonomic interactive testing in a mixed-reality environment"*, Proceedings of HCI International 2007, Beijing, 22-27 Jul. 2007, pp. 431-440, ISBN 978-3-540-73334-8, doi: http://dx.doi.org/10.1007/978-3-540-73335-5_47

[IC51] G. Caruso, U. Giraudo, **F. Ferrise**, *"Ergonomic interactive testing in a mixed-reality environment"*. Proceedings of congresso congiunto XVI ADM - XIX INGEGRAF 2007, Perugia, 6-9 Jun. 2007

[IC52] M. Bordegoni, U. Giraudo, G. Caruso, **F. Ferrise**, *"Ergonomic tests in mixed environments: integration of VR and physical control devices"*, Research in Interactive Design, Vol. 2, Proceedings of Virtual Concept 2006, Playa del Carmen – Cancun (Mexico), 26 Nov.–1 Dec. 2006, ISBN 2-287-48363-2

Italian Conferences

[NC1] C. Cassata, **F. Ferrise**, M. Bordegoni, *"Designing tactile tiles through virtual prototypes"*. MIMOS II Decennale, Roma, 9-11 Oct. 2012

[NC2] **F. Ferrise**, M. Bordegoni, S. Graziosi, *"Virtualization of a fridge for the redesign of the haptic behavior"*. MIMOS II Decennale, Roma, 9-11 Oct. 2012

[NC3] U. Cugini, M. Bordegoni, G. Caruso, **F. Ferrise**, *"Multimodal interaction based on Haptic Control Systems for Human-Vehicle interfaces validation"* , Workshop on Multimodal Interaction Through Haptic Feedback – MITH2008, Napoli, Italy, 31 May, 2008

[NC4] M. Bordegoni, **F. Ferrise**, G. Caruso, M. Ambrogio, F. Bruno, F. Caruso, *'Environment based on Augmented Reality and interactive simulation for product design review'*. 6th Eurographics Italian Chapter, Salerno, 2-4 Jul. 2008, doi: http://dx.doi.org/10.2312/LocalChapterEvents/ItalChap/ItalianChapConf2008/027-034

[NC5] M. Bordegoni, G. Caruso, **F. Ferrise**, U. Giraudo, *"A mixed environment for ergonomic tests: tuning of the stereo viewing parameters"*, Proceedings of Fifth Eurographics Italian Chapter Conference 2007, Trento 14-16 Feb. 2007 pp. 127-134 ISBN 978-3905673-62-3, doi: http://dx.doi.org/10.2312/LocalChapterEvents/ItalChap/ItalianChapConf2007/127-134

[NC6] U. Cugini, G. Caruso, **F. Ferrise**, R. Mana, *"Validazione del simulatore di oggetti non rigidi tramite l'utilizzo di sistemi Motion Capture"*, 6° Convegno Tecnico Scientifico Mimos Torino 18-20 Oct. 2006

[NC7] F. Bruno, F. Caruso, **F. Ferrise**, M. Muzzupappa *"VTK4AR: An Object Oriented Framework for Scientific Visualization of CAE Data in Augmented Reality"*, Proceedings of the Fourth Eurographics Italian Chapter Conference 2006, Catania, 22-24 Feb. 2006, pp. 75-81 ISBN 3-905673-58-4, doi: http://dx.doi.org/10.2312/LocalChapterEvents/ItalianChapConf2006/075-081

Review service for journals, international conferences and book series

Journals:

- ACM Transactions on Computer-Human Interaction, ISSN:1073-0516 EISSN:1557-7325, ACM New York, NY, USA
- ASME Journal of Computing and Information Science in Engineering (JCISE), ISSN: 1530-9827, ASME
- Computer-Aided Design and Applications, Taylor & Francis, ISSN: 1686-4360
- Food Research International, Elsevier ISSN: 0963-9969
- Frontiers in Psychology, Electronic ISSN: 1664-1078
- Frontiers in Robotics and AI, Electronic ISSN: 2296-9144
- IEEE Transactions on Haptics, IEEE, ISSN: 1939-1412
- International Journal of Advanced Robotic Systems, ISSN: 1729-8806, Intech Open Publisher
- International Journal of Human Computer Interaction, ISSN: 1044-7318, Taylor & Francis
- International Journal of Human-Computer Studies, ISSN: 1071-5819, Elsevier
- International Journal of Intelligent Engineering Informatics, ISSN: 1758-8715, Inderscience publishers
- Journal of Engineering and Technology Management, Elsevier ISSN: 0923-4748
- Journal of Engineering Design, Taylor & Francis, ISSN (Print) 0954-4828, (Online) 1466-1837
- Journal on Multimodal User Interfaces, ISSN: 1783-7677 (print version), 1783-8738 (electronic version), Springer
- Mathematical Problems in Engineering, Hindawi
- Mechatronics, Elsevier, ISSN: 0957-4158
- The Open Mechanical Engineering Journal, ISSN: 1874-155X, BENTHAM OPEN
- Virtual Reality, ISSN: 1359-4338, Springer

International conferences

- ACM CHI Play ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play **2016**, **2017**
- ACM DIS Conference on Designing Interactive Systems **2016**
- ACM International Conference on Human-Computer Interaction with Mobile Devices and Services (Mobile HCI) **2016**
- ACM International Conference on Multimodal Interaction (ICMI) **2016**, **2017**
- ACM IUI Conference on Intelligent User interfaces **2015**
- ACM SIGCHI Conference on Human Factors in Computing Systems (CHI) **2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018**
- ACM Symposium on User Interface Software and Technology (UIST) **2016**

- ACM/IEEE HRI Conference on Human-Robot Interaction **2017**
- Advanced Manufacturing (JCM) **2016**
- Asia Pacific Conference on Computer Human Interaction (APCHI) **2012**
- ASME International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE) **2009, 2012, 2013, 2014, 2015, 2016, 2017**
- ASME World Conference on Innovative Virtual Reality (WINVR) **2010, 2011**
- ASME/ISCIE International Symposium on Flexible Automation (ISFA) **2012**
- DeSForM **2015**
- Digital Heritage **2013, 2015**
- Eurohaptics **2014, 2016**
- EuroVR **2014, 2016**
- IEEE Haptic Symposium **2012, 2014, 2016, 2018**
- IEEE International Conference on Robotics and Automation (ICRA) **2014**
- IEEE International Symposium on Mixed and Augmented Reality (ISMAR) **2011, 2012, 2013, 2014**
- IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN) **2011, 2013, 2014, 2016, 2017**
- IEEE Symposium on 3D User Interfaces (3DUI) **2014, 2015, 2016, 2017**
- IEEE Virtual Reality Conference (VR) **2011, 2015, 2016, 2017**
- IEEE World Haptics Conference **2015**
- IEEE/ASME MESA **2014**
- IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) **2014, 2015, 2016, 2017**
- International Conference on Engineering Design (ICED) **2015, 2017**
- International Conference on Flexible Automation and Intelligent Manufacturing (FAIM) **2017**
- International Conference on Innovative Design and Manufacturing (ICIDM) **2017**
- International Conference on Research into Design (ICoRD) **2015**
- International Joint Conference on Mechanics, Design Engineering &
- Salento AVR **2016, 2017**
- Symposium on Tools and Methods of Competitive Engineering (TMCE) **2010, 2012, 2014, 2016**
- The International Conference on Virtual Systems and Multimedia (VSMM) **2012, 2014, 2016, 2017**

Book Series:

- ASME Advances in Computers and Information in Engineering Research (ACIER) 2014