

**Michele Fiorentino,**

**Dottore di Ricerca (Ph.D.)**

*Full time Researcher and Assistant Professor at Politecnico Di Bari, faculty of Mechanical Engineering, Bari, Italy.*

**Research Interests**

*Computer Aided Design, Advanced Interfaces, Multimodal Interaction, Virtual, Mixed and Augmented Reality.*

**Awards**

*“Spacedesign: A Mixed Reality Workspace for Aesthetic Industrial Design”, Best Paper Award 2003, third price, INI-GraphicsNet.*

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**Brief biography**

*1999 bachelor cum laude in Mechanical Engineering from Politecnico di Bari. March 2001- April 2002 visiting researcher at the A2 - Industrial Application Department, Fraunhofer Institute of Computer Graphics Darmstadt (IGD), Germany. September 2003 - Dottore di Ricerca (Ph.D.) in Advanced Systems for Engineering at DiMeG, Politecnico di Bari. From 2000 Researcher at [Cemec, Center of excellence in computational Mechanics](#). From 2003 full-time researcher and assistant Prof. in Industrial Design and computer aided design at School of Mechanic Engineering, Politecnico di Bari, Italy. From 2005 professor of Simulation ad Digital Mock up, Computer Graphics and Technical drawing at faculty of Taranto and Bari. 2007 visiting researcher at ICG, Tu Graz, Austria. He is reviewer for CAD Journal and ASME conferences .*

**Projects**

Technical 3D labeling using novel interfaces

[VR Cad](#) : the Virtual Reality CAD using innovative Interfaces

[Augmented Reality Prototype](#): Mixing Virtual with Real world

Special Applications: [Character Line Sketching For Conceptual Design In Virtual Reality](#)

## Publications

### 2008

- M. Fiorentino, G. Monno, and A. E. Uva, "VR Interaction for CAD Basic Tasks Using Rumble Feedback Input: Experimental Study", in. *Product Engineering, Tools and Methods Based on Virtual Reality*, Springer book, Eds. Talaba, Doru and Amditis, Angelos, 2008, XIV, 566 p., Hardcover, ISBN: 978-1-4020-8199-6, cap.III, pp 337-351.

### 2007

- M. Dellisanti, M. Fiorentino, G. Monno, and A. E. Uva, "Flexible Multimodal Architecture for CAD Application", *Eurographics Italian Chapter Conference 2007*, pp. 113-118, isbn 978-3905673-62-3
- M. Fiorentino, G. Monno, A. E. Uva, "eSnap for 3D input in CAD applications", In *Proc. Congresso internazionale congiunto XVI ADM - XIX INGEGRAF, Perugia, 2007*
- M. Fiorentino, G. Monno, A. E. Uva, "Benchmark per interfacce utente di sistemi desktop M-CAD", In *Proc. Congresso internazionale congiunto XVI ADM - XIX INGEGRAF, Perugia, 2007*

### 2006

- M. Fiorentino, G. Monno, A. E. Uva, *CAD Interfaces in Virtual Reality: Issues and Solutions, Virtual Reality in Product Engineering and Robotics: Technology and Applications*, Special issue of *Bulletin of the Transilvania University of Braşov*, ISSN 1221-5872, Brasov, Romania, 2006. [\[Full Paper\]](#).

### 2005

- Fiorentino M. , Monno G., Uva A. E.: *The SenStylus: A Novel Rumble-Feedback Pen Device for CAD Application in Virtual Reality*, in proc. WSCG2005, *The 13-th International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision'2005*, January 31 - February 4, 2005, ISBN 80-903100-7-9 PP.131-138. [\[Abstract\]](#) [\[Full Paper - WSCG Digital Library\]](#).

### 2004

- S. Cristiano, M. Fiorentino, G. Monno, A. E. Uva, *REAL-TIME PARTICLE BASED VIRTUAL SCULPTURING* in proc. ADMAIAS04 conference , 31 August, 2 September, 2004, Bari, Italy ISBN 88-900637-2-6 . [\[Full Paper\]](#)

- Fiorentino M., Monno G. , Uva A.E. , SMART TOOLS FOR VIRTUAL REALITY BASED CAD , in proc. ADMAIAS04 conference , 31 August, 2 September, 2004, Bari, Italy ISBN 88-900637-2-6. [\[Full Paper\]](#)
- Fiorentino M., Monno G. , Uva A.E. Morabito, P. Silvestri, A. , STIMA DELL'ASSE DI SUPERFICI DI RIVOLUZIONE PER APPLICAZIONI ARCHEOLOGICHE, in proc. ADMAIAS04 conference , 31 August, 2 September, 2004, Bari, Italy ISBN 88-900637-2-6.
- Raffaele de Amicis, Giuseppe Conti, Michele Fiorentino: Tangible interfaces in virtual environments for industrial design. ACM, Proceedings of the working conference on Advanced visual interfaces AVI 2004, Gallipoli, Italy, May 25-28, Italy, P.P. 261-264 ISBN:1-58113-867-9 .
- Fiorentino M., Monno G., Uva A.E., "SmartSnap: addressing 3D pointing anisotropy in Virtual Reality CAD application ", International conference on the Computer Graphics and Vision, GRAPHICON '2004, September 6 - 10, 2004, Moscow, Russia ISBN 5-317-01112-4 P.P. 188-19. [\[Full Paper\]](#)

## 2003

- Fiorentino Michele, De Amicis R., Monno G., (2003) , Nuove tecniche di interazione per il Design: il CAD Virtuale, *DDD\_INTERFACCE*, Rivista trimestrale Disegno e Design Digitale, anno\_2 numero\_7 lug/set 2003, CD-ISSN: 1594-9672, WEB-ISSN: 1720-0482. [\[www.polidesign.net/ddd\]](http://www.polidesign.net/ddd)
- Fiorentino M., Monno G., Renzulli P.A., Uva A.E., "3D Sketch Stroke Segmentation and Fitting in Virtual Reality", International conference on the Computer Graphics and Vision, GRAPHICON '2003, September 5 - 10, 2003, Moscow ISBN 5-317-01112-4 P.P. 188-191.
- Michele Fiorentino, *Design Estetico in Mixed Reality: Studio e Implementazione*, Tesi di Dottorato in Ingegneria dei sistemi di Produzione, 2003, Politecnico di Bari. (italian) [\[Phd thesis\]](#)
- Fiorentino Michele, Monno G., Renzulli P.A., Uva A.E., "Character Line Sketching for Conceptual Design in Virtual Reality", 14th International Conference on Engineering Design, 19-21 August 2003, Stockholm, Sweden, ISBN-1-904670-00-8.
- Fiorentino Michele, Monno G., Renzulli P. A., Uva A. E., "3d pointing in virtual reality: experimental study", XIII ADM - XV INGEGRAF International Conference on TOOLS AND METHODS EVOLUTION IN ENGINEERING DESIGN, Napoli, June 3th and June 6th, 2003. [\[Abstract\]](#) [\[Full Paper\]](#)
- De Amicis R., Fiorentino Michele, Stork A., Monno G. , "3D-Tape Drawing in Virtual and Augmented Reality", XIII ADM - XV INGEGRAF International Conference on TOOLS AND METHODS EVOLUTION IN ENGINEERING DESIGN, Napoli, June 3th and June 6th, 2003.
- Fiorentino Michele, De Amicis R., Stork A., Monno G., "Spacedesign: A Mixed Reality Workspace for Aesthetic Industrial Design", in *Selected Readings in Computer Graphics 2002*, by Fraunhofer IRB Verlag, 2003, ISSN 0948-3950, ISBN 3-8167-6356-1, pag. 259-273, and in *Proc. of ISMAR 2002 IEEE and ACM INTERNATIONAL SYMPOSIUM ON MIXED AND AUGMENTED REALITY*, pp. 86-94, Sept. 30 - Oct. 1, 2002, Darmstadt, Germany. ISBN 0-7695-1781-1. [\[Abstract\]](#) **BEST PAPER AWARD 2003, THIRD PRICE, INI-GraphicsNet.**

## 2002

- Fiorentino Michele, De Amicis R., Stork A., Monno G., (2002), "Spacedesign: conceptual styling and design review in augmented reality", *Proc. of EUROGRAPHICS ITALIA CONFERENCE, 11 -12 July 2002, Politecnico di Milano - Bovisa, Italy.*
- De Amicis R., Fiorentino Michele, Santos P., Stork A, (2002), "SketchAR - Sketching in Mixed Realities";. In: Gausemeier, Jürgen (Hrsg.), *Proc. of AUGMENTED REALITY WORKSHOP, Augmented und Virtual Reality in der Produktentstehung*, pp. 145-156, 11.-12. Juni, 2002, Heinz Nixdorf Institut, Paderborn, Germany.
- Fiorentino Michele, De Amicis R., Stork A., Monno G., (2002), "Surface Design In Virtual Reality As Industrial Application"; In *Proc. of DESIGN CONFERENCE - DESIGN 2002, Dubrovnik, Croatia, May 14 - 17, 2002. Marjanovic, Dorian (Ed.); University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Proceedings of the 7th International Design Conference. DESIGN CONFERENCE - DESIGN 2002*, pp. 477-482, May 14 - 17, 2002, Dubrovnik, Croatia. ISBN-953-6313-46-4. [\[Abstract\]](#) [\[Full Paper\]](#)

## 2001

- De Amicis R., Fiorentino Michele, Stork, A., "Parametric Interaction for CAD application in Virtual Reality Environment". *Proc. of XII ADM INTERNATIONAL CONFERENCE, International Conference on Design Tools and Methods in Industrial Engineering, Sept. 5-7, 2001, Rimini, Italy, pp. D3/43-D3/52.*
- Fiorentino Michele, Monno G., Uva A. E, (2001), "6DOF manipulators for curves and surfaces bi-manual modelling in virtual environment" *INTERNATIONAL CONFERENCE ON ENGINEERING DESIGN, ICED 01 GLASGOW, AUGUST 21-23, 2001.* [\[Abstract\]](#)
- Fiorentino Michele, Monno G., Uva A. E, (2001), "Simulated annealing approach for resampling of scattered data on Surfaces", *ARTIFICIAL INTELLIGENCE AND SOFT COMPUTING (ASC 2001), May 21-24, 2001, Cancun, Mexico.*

## 2000

- Fiorentino Michele, Monno G., Uva A. E, (2000), "Manipolazione interattiva di curve e superfici in ambiente virtuale", *ISCS 2000, Lecce, Italy.* [\[Abstract\]](#) [\[Full Paper\]](#)

## 1999

- Fiorentino Michele, "La realtà virtuale, uno strumento per il design", *Mechanical Engineering, Thesis, 1999, politecnico di Bari, Italy.*

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