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Collaborative and Heterogeneous Robots interacting in Live Environment

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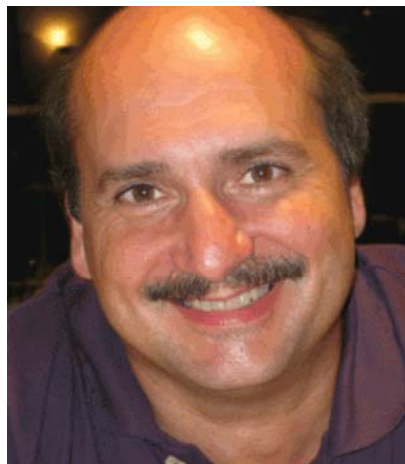
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Philippe Martinet

Inria
a
senior
research
scientist



Short bio

Philippe Martinet graduated from the CUST, Clermont- Ferrand, France, in 1985 and received the Ph.D. degree in

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Publications

Complete List (with pdf)
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Cv

electronics science from the Blaise Pascal University, Clermont-Ferrand, France, in 1987.

From 1990 til 2000, he was assistant Professor with CUST in the Electrical Engineering Department, Clermont-Ferrand. From 2000 until 2011, he has been a Professor with Institut Français de Mécanique Avancée (IFMA), Clermont-Ferrand. He was performing research at the Robotics and Vision Group of LASMEA-CNRS, Clermont-Ferrand. In 2006, he spent one year as a visiting professor in ISRC at the Sungkyunkwan university in Suwon, South Korea.

He was the leader of the group GRAVIR (over 74 person) from 2001 til 2006. From 1997 until 2011, he led the Robotic and Autonomous Complex System team (over 20 persons). From 2008 until 2011, he co-lead a Joint Unit of Technology called “Robotization in meet Industry”, and the Korea France Joint Research Center on Cognitive Personal Transport Service Robot in Suwon (South Korea).

In September 2011, he moves to Ecole Centrale de Nantes and make his research at IRCCYN in the robotics team.

Creation of the CHORALE team

April 1st, 2018

Creation of the Chorale team, starting April, 1st 2018. CHORALE is a follow-up of the Sophia Lagadic team, and is led by Philippe Martinet.

Until 2015, he stayed associated researcher to Pascal Institute in Clermont-Ferrand. Since 2017, IRCCyN becomes LS2N. He was deputy head of the ARMEN Team.

In November 2017, he moves to Inria Sophia Antipolis as Research director. Since 2018, he is the leader of the CHORALE team.

He was coordinator of the EMJMD EMARO+ from 2014 until 2016. Until 2017, he was in charge of the robotics speciality in the ARIA master.

Since 2015, he is deputy head of the French robotics research Network.

His research interests include :

- VISIR : Visual Servoing of Robot *Visual Servoing (Position, Image and Hybrid Based, Omnidirectional), Multi-Sensor Based Control, Force-Vision Coupling, Robots (Manipulator, Mobile, Aerial)*
- AGV : Autonomous Guided Vehicle *Control (Non Linear, Adaptive, Predictive, Robust), Enhanced Mobility (Sliding and Slipping), Uncertain Dynamics, Monitoring, Robots (Mobile, AGV, All Terrain*

vehicles, Agricultural Vehicles, Platoon, Multi-Robot System)

- MICMAC : Modeling, Identification and Control of complex MACHines
Kinematic Identification, Dynamic Identification, High Dynamic Modeling, Dynamic Control, Vision based Control of Parallel Robot, Robots (Parallel Robot, High Speed Machine Tools)
- RCA : Redundancy, Control and Autonomy *Humanoid robot control, Multi Arms control, Redundancy and polymorphism, Robots (Humanoid robots, Service Robots, Polymorph Robots)*
- Others interests *Active Vision and Sensor Integration, Visual Tracking, and Parallel Architecture for Visual Servoing Applications*

From 1990, he has driven four habilitations, 23 (+ 7 as co-supervisor) past Ph.d students, plus 5 (+ 3 as co-supervisor) in progress, 33 Master students and 5 Post-doc. For the same period, he is author and co-authors of

more than three hundred thirty references 52 IJ, 2 NJ, 194 IC, 27 NC, 50 IW, 1 NW, and 6 book Chapters.


Distinctions


- ECCV06 Longuet-Higgins Honorable Mention Paper Award: O. Ait Aider, N. Andreff, J.M. Lavest, P. Martinet, “ Simultaneous Object Pose and Velocity Computation Using a Single View from a Rolling Shutter Camera”, in Proceedings of the 9th European Conference on Computer Vision, ECCV06, pp. 56-68, Graz, Austria May 7-13th, 2006
- CDC06 Best Interactive Session Award : R. Lenain, B. Thuilot, C. Cariou, P. Martinet, “ Mobile robots control in presence of sliding : Application to agricultural vehicle path tracking”, in Proceedings of the 45th IEEE Conference on Decision and Control, CDC06, pp. , San Diego, California, USA, 13-15 December, 2006


- CONTROLO06 Best Industrial Paper Award: T. Virin, J. Koko, E. Piron, P. Martinet, M. Berducat, “ Optimization-Based Approach For A Better Centrifugal Spreading”, in Proceedings of the 7th Portuguese Conference On Automatic Control, CONTROLO06, pp. , Lisbon, Portugal, 11-13 September, 2006
- IEEE-RAS Most Active Technical Committee Award 2013: RAS-TC on AGV & ITS, Philippe Martinet, Christian Laugier, Urbano Nunes
- ICARCV16 *Finalist for the best paper Award: B. Khomutenko, G. Garcia, P. Martinet, “ Direct Fisheye Stereo Correspondence Using Enhanced Unified Camera Model and Semi-Global Matching Algorithm ”, 14th International Conference on Control, Automation, Robotics and Vision, ICARCV’16, Phuket, Thailand November 13-15th, 2016*


- EUCOMES16 *Finalist for the best paper Award*: L. Kaci, S. Briot, C. Boudeaud, P. Martinet, “Control-based Design of a Five-bar Mechanism”, 6th European Conference on Mechanism Science, EUCOMES16, Nantes, France, September 20th – 23th, 2016


PhD students


Sylvain Vandernotte, PhD in 2016, co-supervised with A. Chriette and A. Suarez-Roos 

Victor Rosenzweig, PhD in 2015, co-supervised with [Sébastien Briot](#) 

Alan Ali, PhD in 2015, co-supervised with Gaëtan Garcia 

George Pagis, PhD in 2015, co-supervised with [Sébastien Briot](#) 

Philip Long, PhD in 2014, co-supervised with Wisama Khalil 

Medhi Mouad, PhD in 2014, co-supervised with [Lounis Adouane](#) and Djamel Khadraoui 

Aurélien Yeremou Tamtsia, PhD in 2013,

co-supervised with [Youcef Mezouar](#)

Hemanth Korrapati, PhD in 2013, co-

supervised with [Youcef Mezouar](#)

Amine Abou Moughlbay, PhD in 2013 

Guillaume Lozenguez, PhD in 2012, co-

supervised with [Abdelillah Mouaddib](#),

[Lounis Adouane](#) and Aurélie Bernier 

Christophe Cariou, PhD in 2012, co-

supervised with Benoit Thuilot and

[Roland Lenain](#) 

Erol Ozgur, PhD in 2012, co-supervised

with [Nicolas Andreff](#) 

Ahmed Benzerrouk, PhD in 2011, co-

supervised with [Nicolas Andreff](#) and

[Lounis Adouane](#) 

Redouane Dahmouche, PhD in 2010, co-

supervised with [Nicolas Andreff](#) and

[Youcef Mezouar](#) 

Pierre Avanzini, PhD in 2010, co-

supervised with Benoit Thuilot 

Flavien Paccot, PhD in 2009, co-

supervised with [Nicolas Andreff](#) 

Johnathan Courbon, PhD in 2009, co-

supervised with [Youcef Mezouar](#) 

Nicolas Bouton, PhD in 2009, co-

supervised with Benoit Thuilot and 


Tej Dallej, PhD in 2007, co-supervised


with [Nicolas Andreff](#) 


Teddy Virin, PhD in 2007, co-supervised


with Jonas Koko and Emmanuel


Piron 

Jonathan Bom, PhD in 2006, co-supervised with Benoit Thuilot 


Hicham Hadj Abdelkader, PhD in 2006, co-supervised with [Youcef Mezouar](#) 


Roland Lenain, PhD in 2005, co-supervised with Benoit Thuilot 


Pierre Chalimbaud, PhD in 2004, co-supervised with François Berry 


Pierre Renaud, PhD in 2003, co-supervised with [Nicolas Andreff](#) and Grigore Gogu 

Xavier Clady, PhD in 2003, co-supervised with Jean Gallice 

Lionel Cordesses, PhD in 2001, co-supervised with Jean Gallice and Benoit Thuilot 

François Berry, PhD in 1999, co-supervised with Jean Gallice 

Djamel Khadraoui, PhD in 1996, co-supervised with Jean Gallice 

Christophe Debain, PhD in 1996, co-supervised with Pierre Bonton and Michel Berducat 

Teaching (at ECN Nantes)

- VIBCO : Vision Based Control
(ERASMUS MUNDUS Master
EMARO/ARIA-ROBA 2)
- COVIS : Computer Vision (ERASMUS
MUNDUS Master EMARO/ARIA-ROBA
1)
- MOBPRO : Mobile Robotics
(ERASMUS MUNDUS Master
EMARO/ARIA-ROBA 1)
- MOCOM : Modeling and Control of
Manipulator (ERASMUS MUNDUS
Master EMARO/ARIA-ROBA 1)
- VIROB : Vision for Robotics (EI2/EI3-
Robotics Track)
- MOROB : Modeling of Robots
(EI2/EI3-Robotics Track)
- COMRO : Control of Robots (EI2/EI3-
Robotics Track)
- VISIM : Computer Vision (EI3-ISIS-
ISBA)
- SYSTI : Intelligent Transportation
Systems (EI3-ISIS-TRANS)
- EL-ROBMOB : Mobile Robots (EI2-
Electif)
- EL-ROBOT : Manipulator Robots (EI1-
Electif)

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