

**Title: Recent Advances in Visual Servoing**

**Speaker:**

Dr. Francois Chaumette  
Directeur de Recherches  
Head, Lagadic Group  
INRIA-IRISA Rennes

**Date:** Monday, 25 October 2010

**Time:** 11:00 am – 12:30 pm

**Venue:** Room 601J, Chow Yei Ching Building

**Abstract:**

Visual servoing techniques consist in using the data provided by a vision sensor in order to control the motions of a dynamic system. Such systems are usually robot arms, mobile robots, aerial robots,... but can also be virtual robots for applications in computer animation, or even a virtual camera for applications in computer vision and augmented reality.

The talk will present the main basic aspects of visual servoing, as well as recent advances obtained recently in the field inside the Lagadic group at INRIA Rennes-Bretagne Atlantique. Several application results will be also described.

**Biography of the speaker:**

Francois Chaumette was graduated from Ecole Nationale Supérieure de Mécanique, Nantes, France, in 1987. He received the Ph.D. degree in computer science from the University of Rennes, France, in 1990. Since 1990, he has been with INRIA-IRISA in Rennes where he is now "Directeur de recherches" and head of the Lagadic group (<http://www.irisa.fr/lagadic>).

His research interests include robotics and computer vision, especially visual servoing and active perception.

Dr. Chaumette co-authored more than 150 papers on the topics of robotics and

computer vision, and has served in the last five years on the program committees for the main conferences related to robotics and computer vision. He received the AFCET/CNRS Prize for the best French thesis in automatic control in 1991. He also received with Ezio Malis the 2002 King-Sun Fu Memorial Best IEEE Transactions on Robotics and Automation Paper Award. He has been Associate Editor of the IEEE Transactions on Robotics from 2001 to 2005. He is currently in the Editorial Board of the Int. Journal of Robotics Research and Int. Journal of Optomechatronics.

**Organizer:** Dr. G. Chesi