

## **Amaury DAME**

Born, July 8, 1984



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## **Current position**

Post Doctoral Research Assistant,  
Active vision group,  
Oxford University.

## **Education**

**2010 PhD in computer science**, Université de Rennes 1, IRISA, INRIA Rennes-Bretagne Atlantique, Lagadic Team.

**2007 MS in signal and image processing**, Université de Rennes 1.

**2007 IE in electronics and computer science**, INSA de Rennes 1 (National Institute of Applied Science).

## **Research interests**

Computer and robot vision, visual tracking, 3D reconstruction, machine learning, visual servoing.

## **Awards**

- **Conference Best Paper Runner-Up Award** at “IEEE Int. Symp. on Mixed and Augmented Reality, ISMAR’10”, Seoul 2010.
- Second prize of the GDR Robotique **2010 Best Thesis in Robotics Award**.

## **Teaching**

[2007-2009] Computer vision at INSA (National Institute of Applied Sciences) Rennes.

## Publications

### Journal articles

- [R1] **A. Dame**, E. Marchand. – Mutual information-based visual servoing. – *IEEE Trans. on Robotics*, Octobre 2011.
- [R2] **A. Dame**, E. Marchand. – Second order optimization of mutual information for real-time image registration. – *IEEE Trans. on Image Processing*, September 2012.
- [R3] **A. Dame**, E. Marchand. – Using mutual information for appearance-based visual path following. – *Robotics and Autonomous Systems*, March 2013.

### International conference articles

- [C1] **A. Dame**, E. Marchand. – Entropy Based Visual Servoing. – in *IEEE Int. Conf. on Robotics and Automation, ICRA'09*, Kobe, Japan, May 2009.
- [C2] **A. Dame**, E. Marchand. – Optimal Detection and Tracking of Feature Points using Mutual. – in *IEEE Int. Conf. on Image Processing, ICIP'09*, Cairo, Egypt, November 2009.
- [C3] **A. Dame**, E. Marchand. – Improving mutual information based visual servoing. – in *IEEE Int. Conf. on Robotics and Automation, ICRA'10*, Anchorage, Alaska, May 2010.
- [C4] **A. Dame**, E. Marchand. – Accurate real-time tracking using mutual information. – in *IEEE Int. Symp. on Mixed and Augmented Reality, ISMAR'10*, Seoul, Korea, October 2010.
- [C5] **A. Dame**, E. Marchand. – A new information theoretic approach for appearance-based visual path following. – in *IEEE Int. Conf. on Robotics and Automation, ICRA'11*, Shanghai, China, May 2011.
- [C6] **A. Dame**, E. Marchand. – Video mosaicing using a Mutual Information-based Motion Estimation Process. – in *IEEE Int. Conf. on Image Processing, ICIP'11*, Brussels, Belgium, September 2011.
- [C7] **A. Dame**, V. A. Prisacariu, C. Y. Ren, I. Reid. – Dense Reconstruction Using 3D Object Shape Priors. – in *IEEE Conf. on Computer Vision and Pattern Recognition, CVPR'13*, Portland, US, June 2013.

### National conference articles

- [CN1] **A. Dame**, E. Marchand. – Une approche unifiée reposant sur l'information mutuelle pour l'asservissement visuel et le suivi différentiel. – in *18e congrès francophone AFRIF-AFIA Reconnaissance des Formes et Intelligence Artificielle, RFIA 2010*, Caen, France, January 2010.
- [CN2] G. Caron, **A. Dame**, E. Marchand. – L'information mutuelle pour l'estimation visuelle directe de pose. – in *18e congrès francophone AFRIF-AFIA Reconnaissance des Formes et Intelligence Artificielle, RFIA 2012*, Lyon, France, January 2012.