Rida Sadek

CONTACT
INFORMATION

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RESEARCH
INTERESTS

Computer Vision, Image Processing, Variational Methods and Computational Geometry

EDUCATION

Universitat Pompeu Fabra, Barcelona, Spain   **2007 − present**
PhD in Computer Science
- Focus: Image Processing and Computer Vision
- Expected graduation date: September 2012
- Advisor: Professor Vicent Caselles

Universiteit Utrecht, Utrecht, The Netherlands   **2004 − 2006**
MSc in Computer Science
- Focus: Games and Media Technology
- Research Center: Geometry, Imaging and Virtual Environments (GIVE)

American University of Beirut, Beirut, Lebanon   **1998 − 2001**
BSc in Computer Science

College Louise Wegmann, Beirut, Lebanon   **1983 − 1998**
French Baccalaureate in Mathematics

PUBLICATIONS

Journal Articles

[1] P. Arias, V. Caselles, G. Facciolo, V. Lazcano, and R. Sadek. Nonlocal variational models for inpainting and interpolation. *Mathematical Models and Methods in Applied Sciences*, 2012. to appear.

[2] R. Sadek, C. Constantinopulos, E. Meinhardt, C. Ballester, and V.Caselles. On affine invariant descriptors related to sift. *SIAM Journal on Imaging Sciences (SIIMS)*, 2012. to appear.

[3] R. Sadek, G. Facciolo, P. Arias, and V. Caselles. A variational model for gradient-based video editing. 2012. preprint.

Conference Papers

[1] Nicolas Beldiceanu, Mats Carlsson, Emmanuel Poder, R. Sadek, and Charlotte Truchet. A generic geometrical constraint kernel in space and time for handling polymorphic k-dimensional objects. In *CP*, volume 4741 of *Lecture Notes in Computer Science*, pages 180–194. Springer, 2007.

[2] Gabriele Facciolo, Rida Sadek, Aurélie Bugeau, and Vicent Caselles. Temporally consistent gradient domain video editing. In *EMMCVPR*, volume 6819 of *Lecture Notes in Computer Science*, pages 59–73. Springer, 2011.

[3] R. Sadek, C. Ballester, L. Garrido, E. Meinhardt, and V. Caselles. Frame interpolation with occlusion detection using a time coherent segmentation. In *International Conference on Computer Vision Theory and Applications (VISAPP)*, Roma, Italy, February 2012.

RESEARCH
EXPERIENCE

Ecole Des Mines De Nantes, Nantes, France   **2006 − 2007**
Researcher
- Worked with Professor Nicolas Beldiceanu on an algorithm for specifying and implementing "Geometric Constraints" in the field of Constraint Programming

TEACHING
EXPERIENCE

Universitat Pompeu Fabra, Barcelona, Spain   **2007 − present**
Teaching Assistant
- Courses: Numerical Analysis, Calculus I, Calculus II, Probability and Statistics, Advanced Image Processing, Image Analysis and Interpretation.

WORK
EXPERIENCE

Alwaseet Publishing House - Regional Office, Beirut, Lebanon   **2003 − 2004**
Senior Developer
- Developed a software that keeps track of the subscribers and manages the circulation and distribution of "Al Balad" newspaper
- Developed a Customer Relation Management (CRM) application responsible for managing all the Inbound/Outbound calls made by/to customers and all the complaints and subscriptions of "Al Balad" newspaper

NETT FX Ltd, Beirut, Lebanon   **2002 − 2003**
Developer
- Worked with a team of three programmers to develop a web-based client-server "trading software"

TECHNICAL
SKILLS

Computer Vision & Image Processing
- Acquired knowledge and practice in the fields of object recognition, image editing, video editing, optical flow, image inpainting, and variational models

Game & Media Technology
- Acquired knowledge and practice in the fields of game design, multimedia retrieval, computational geometry, motion and manipulation, graph drawing algorithms and problems, GIS systems and cartography (label placement, map generalisation, schematic maps).

Programming Languages and Technologies
- Acquired knowledge and practice in C, C++, Qt, Java, Swing, Matlab, Linux shell scripting, .NET, Delphi, Open GL, PHP, HTML, CSS, XML, MS SQL Server, MySQL, Interbase, and Firebird

LANGUAGES
- Proficient in written and spoken English, French and Arabic
- Good in written and spoken Spanish

PREVIOUS
MEMBERSHIPS
- Member of the Student Representative Committee, American University of Beirut (1999–2000)
- Member of the Univ. Student & Faculty Committee, American University of Beirut (1999–2000)