

Call for Papers

CVPR Workshop on Image Registration and Fusion

June 23, 2007
Minneapolis, MN, USA

Image registration and fusion are critical operations that are needed in analysis of multiple medical, remote sensing, defense, and industrial images. Image registration brings two or more images of a scene into spatial alignment and makes it possible to detect moving objects, calculate image flow, detect scene changes, correct for image distortion or object deformation, and recognize objects. Once the images are registered, they can be fused to combine structural and functional, multi-focus, multi-exposure, or temporal information to create a highly informative image for analysis and decision making. Papers are sought that advance the theoretical foundations of image registration and fusion, or present new applications in which image registration and fusion play a key role.

Topics

- Feature extraction
- Feature matching/correspondence
- Similarity measures
- Transformation functions
- Combined/hybrid approaches
- Coarse-to-fine approaches
- Volume registration
- 2-D to 3-D registration
- Video registration
- Assessment of image registration accuracy
- Applications of image registration
- Pixel-based fusion
- Feature-based fusion
- Object-based fusion
- Transform-domain fusion
- Multi-resolution fusion
- Multi-modality fusion
- Multi-focus fusion
- Multi-exposure fusion
- Spatio-temporal fusion
- 3-D models from multiple views
- Multi-sensor systems
- Image fusion assessment
- Video fusion assessment
- Applications of image fusion

Important Dates

- Paper submission deadline: March 15, 2007
- Notification of acceptance: April 15, 2007
- Paper in final form due: April 25, 2007

Paper Submission

Papers should be prepared according to CVPR guidelines (cvpr.cv.ri.cmu.edu/submissions.htm). Please visit <http://www.imgfsr.com/RegistrationFusionWorkshopSubmission.pdf> for submission instructions. Reviewing will be double-blind, therefore, information that can identify the authors should not be included in submitted papers.

Organizers

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- Nicole Ruitter
- Stan Sclaroff
- Moira Smith
- Murat Tekalp
- Alexander Toet
- Pramod Varshney
- Lyubomir Zagorchev

For more information about the workshop, please contact one of the organizers.