

Siete invitati al seminario di ricerca presso il Dipartimento di Matematica e Informatica, dal titolo:

Geometric similarity measure for multimodal image registration

📍 **Sala Riunioni**

📅 **02 dicembre 2025**

🕒 **Ore 13:30 – 15:30**

Speaker:

Maher Moakher

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Abstract:

We employ deformable models for the registration of multi-modality images. To construct a robust and efficient similarity measure between the images to be registered, we extract geometric features from the images, such as edges and thin structures. For this purpose, we utilize the Blake-Zisserman energy, which is particularly effective for detecting discontinuities at multiple scales. A theoretical analysis of the proposed model will be provided.

For the numerical solution, we adopt a gradient descent method, iteratively solving the corresponding Euler-Lagrange equation. We present and discuss numerical results that demonstrate the effectiveness of the proposed model.

Cordiali saluti

Bruno Iannazzo