



**Dipartimento
Meccanica
Matematica
Management**

MUR
Dipartimento
di Eccellenza
2018-2022
2023-2027

CALL FOR EXPRESSION OF INTEREST FOR MSCA POSTDOCTORAL FELLOWSHIPS AT POLITECNICO DI BARI

Research project

Name and Surname: Prof. Michele Gattullo

Title: Optimization of Authoring for Industrial Augmented Reality Interfaces

Description:

Reliable technical documentation ensures safety in maintenance, assembly, and training. Traditional manuals often use dense text and complex images, making instructions hard to follow. Augmented Reality (AR) for technical documentation enhances procedural guidance, improving document analysis and decision-making. However, its development requires specialized skills, limiting adoption. Clear guidelines and case studies are needed to help non-experts create effective AR documentation. There is no agreed best practice for AR instructions, as effectiveness depends on context. Our research establishes guidelines for next-gen AR documentation, optimizing instruction templates to enhance clarity, efficiency, and cost-effectiveness. We aim to improve operator performance while reducing development costs. We validate our solutions through case studies in laboratory and real work environments, using task time, accuracy, and eye-tracking data, along with usability, cognitive load, and user experience. Our insights enable non-experts to author effective AR documentation for industrial use.

Candidates should provide detailed CV

Candidates must be eligible according to the criteria established by the 2026 MSCA Postdoctoral fellowship call:

- to have a PhD by the call deadline.
- to have up to 8 years of research experience after PhD.
- to be citizens of an EU State or of an Associated Country.
- not to have resided or carried out their main activity in Italy for more than 12 months in the 36 months before the call deadline.

Contacts

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