

Training for translators, with emphasis on economic concepts and skills

Introduction

Translators are professional profiles able to bridge industrial needs and state-of-the-art academic research to drive industrial innovation; thus, they present a multiplicity of skills spanning technical and economic knowledge, communication and soft skills. In this session, we provide an overview of the training scheme defined by the EMMC, with particular emphasis on the economic concepts and skills that Translators must have or acquire.

Objectives

Objective of this session is to provide an overview of the training requirements that have been identified for the Translators, with particular regards to the economic concepts. To this end, an industrial perspective is given on what is expected from Translators, which provides an occasion for discussion and further refinement of their training scheme. An example (ongoing) project of Training for Translators in practice provides an overview of a tentative full course of training for translators, with additional challenges towards Translators in industry 4.0. Specific objectives include:

- To clarify the expectation on the Translators' work from the industry
- To refine the technical and economic training requirements for Translators
- To discuss new opportunities for Translators in the framework of industry 4.0 (i.e. digitalization of the European industry) and to propose refinements of their training schemes accordingly

Background information and documents

The following documentation can be useful

- EMMC Translators Guide
<https://emmc.info/wp-content/uploads/2018/01/Translators-Guide.pdf>
- EMMC Survey (presentation) on Translation & Training for marketplaces:
<https://emmc.info/wp-content/uploads/2019/01/EMMC-MPs-survey-outcome.pdf>
- EMMC YouTube channel (economic training videos)
<https://www.youtube.com/c/europeanmaterialsmodellingcouncil/>
- iMat project @Alta Scuola Politecnica <http://www.asp-poli.it/imat-digitalizing-democratizing-and-empowering-materials-development-via-artificial-intelligence/>

Discussion points and questions

The following points and questions summarize the issues for this session.

- Do you think that the Translator profile identified by the EMMC is complete and meets exactly the expectations on their role in industry? If not, what can lead to a refinement of the role of these figures in industry?
- Do you think that the Training scheme for Translators identified by the EMMC is sufficiently complete or it can be improved by additional concepts? How?

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- In your opinion, which are the most critical aspects in training of translators? Training should focus more on technical, economic aspects or both equally?
- Do you think Translators can have a central role in the digitalization of the European industry towards industry 4.0? If yes, how are they expected to contribute (e.g. main innovation areas and tools)?
- Which would be the additional training concepts that may be useful to provide to the Translators towards industry 4.0? Concepts about data-driven modelling? Concepts and tools for machine learning? Others?