

Software Estimation Challenge April 15, 2023

Preliminary Call for Students Participation



✓ 1st prize: 500 Euros
✓ 2nd prize: 300 Euros
✓ 3rd prize: 200 Euros



Estimation Challenge Inputs

- 1. A set of detailed functional requirements.
- 2. A set of functional requirements at <u>unspecified levels of completeness</u>.
- 3. Some non-functional requirements (NFR).
- 4. Description of a development environment.
- 5. A data set with historical data on development productivity.



Estimation Challenge tasks

Using the Challenge 'case study':

- 1. Size with COSMIC the detailed functional requirements.
- 2. Approximate the size of other functional requirements.
- 3. Size the non-functional requirements allocated to software functions.
- 4. Develop an estimation model from historical data provided.
- 5. Estimate the effort to develop both functional & non-functional requirements.



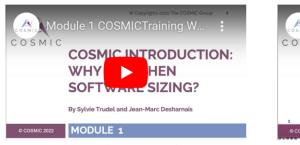
Challenge Useful resources





YouTube Training Material

Learn the essentials of the COSMIC software sizing methodology from these videos produced in English and French.



Training Module 1 – Why Measure Software Size

Module 1 Slides



https://cosmic-sizing.org/videos/



Training Module 3 – MIS Case Study









More Training Material

- Module 7: Estimation process in software engineering (slides): Module 7: Estimation process in software engineering (slides) - Cosmic Sizing (cosmic-sizing.org)
- Tutorial on Early Sizing techniques (Powerpoints)



Students feedback from 2022 Challenge

- ".. an extraordinary experience for me. It was an instructive and entertaining activity and reinforcing work; thank you very much."
- "... un working together with friends."
- ".. a different and unique experience."
- "Thanks to our professors, we became aware of this COSMIC challenge and participated in the challenge. It was beneficial for us. I think we will use these things we learned in our future business life, and I would like to thank our professors."
- ".. both a fun and instructive challenge. I am happy to participate and experience."
- "..beneficial to understand estimating project size."

Source: Hacaloglu et al., 'A Survey on COSMIC Students Estimation Challenge', IWSM-MENSURA – Izmir (Turkey) 2022.



Questions?

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