



ESTIMATION CHALLENGE

Software Estimation Challenge - 2022



Call for participation

Estimating software projects is intellectually stimulating and challenging and worth winning an International Award!

The aim of this Challenge is to provide a rigorous interactive session in software effort estimation presentations by the participating teams on a realistic case study, with the added benefits of cross learning from teams and insights from professional experts panel.

Challenge is open to:

Students:

- a) Case Study with detailed and constrained set of requirements will be provided, on the early morning of the Estimation Challenge Day.
- b) Students will have to size and estimate through a regression analysis using the historical data provided relevant to the case study within a half-day time bound deadline.
- c) Submit findings in a Powerpoint format to the Senior Review Panel.

more information:

Alain Abran
alain.Abran@etsmtl.ca

Saturday, April 9, 2022 (9:00 a.m. to 12:00 p.m. Montreal time)

Awards:

- 1st place 500 Euros
- 2nd place 300 Euros
- 3rd place 200 Euros

Copyright COSMIC

2022 Challenge Students Awards

April 22, 2022

Alain Abran - COSMIC Secretary

Challenge Goal

Improve Knowledge & Skills in
some of the
Best Practices
in Software Estimation.



ESTIMATION CHALLENGE

Software Estimation Challenge - 2022

Call for participation

Estimating software projects is intellectually stimulating and challenging and worth winning an International Award!

The aim of this Challenge is to provide a rigorous interactive session in software effort estimation practitioners by its participating teams on a realistic case study, with the added benefits of cross learning from teams and insights from professional experts panel.

Challenge is open to:

Students:

- a Case Study with detailed and constrained set of requirements will be provided, on the early morning of the Estimation Challenge Day.
- All Students will have to size and estimate through a regression analysis using the historical data provided relevant to the case study within a half-day time-bound duration.
- Submit findings in a PowerPoint format to the Senior Review Panel.

more information:

Alain Abran
alain.abran@umontreal.ca

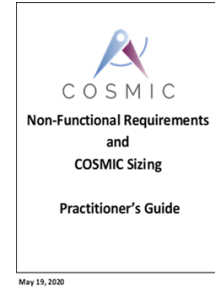
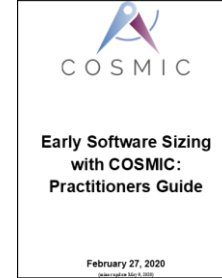
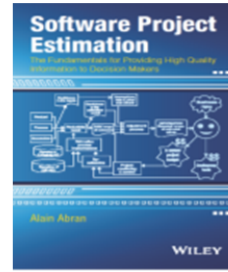
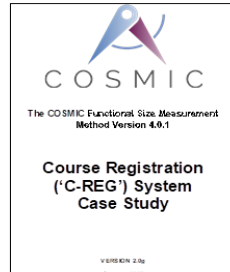
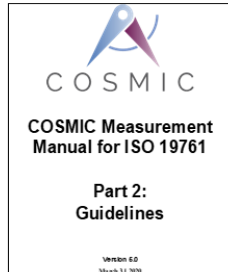
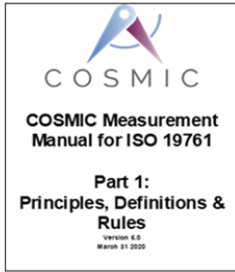
Saturday, April 9, 2022 (9:00 a.m. to 12:00 p.m. Montreal time)

Awards:

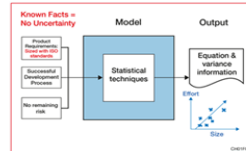
- 1st place: 500 Euros
- 2nd place: 300 Euros
- 3rd place: 200 Euros

Copyright COSMIC

Best Practices & COSMIC documents



Chapters 5, 6 & 9



Novelty this year: Tutoring Material



Introductory Training Videos

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

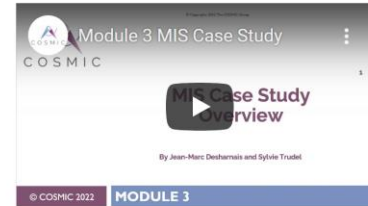


Training Module 1 - Why Measure Software Size

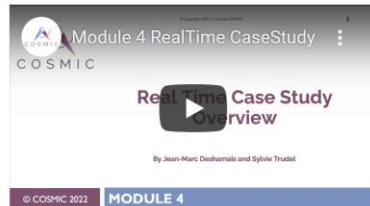
[Module 1 Slides](#)



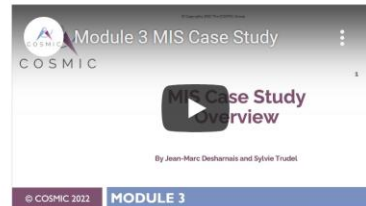
Training Module 2 - The Method Overview



Training Module 3 - MIS Case Study



Training Module 4 - Realtime Software Case Study



Training Module 5 - Non-Functional Requirements



Training Module 6 - Early COSMIC Sizing

Awards to Students Teams

5



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

Sponsored by the COSMIC Group
cosmic-sizing.org

53 Teams and 234 Students



- Atilim University – 22 teams (Turkey)
- Ecole de technologie supérieure – 25 teams (Canada)
- German University in Cairo (Egypt)
- Maroua University (Cameroun)
- Izmir Institute of Technology (Turkey)
- Universidad Nacional Autonoma de Mexico (Mexico)
- Université du Québec à Montréal – 2 teams (Canada)

Challenge Input Documents

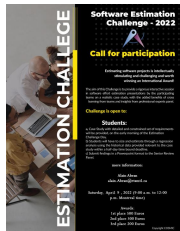


1. Sports Paging System Requirements:

- a) High-level functional requirements
- b) Detailed functional requirements
- c) Non functional requirements (NFR) allocated to software functions

2. Instructions: set of 8 tasks.

Challenge Instructions & Scoring %



No.	Task	Suggested Duration	Scoring
1	Size of detailed functional requirements with COSMIC	40 minutes	20%
2	Approximate the COSMIC size of the high-level functional requirements	20 minutes	15%
3	Size the NFR allocated to software functions	10 minutes	5%
4	Determine the total functional size of the above requirements	5 minutes	1%
5	Build effort estimation model(s) using the historical data provided.	20 minutes	14%
6	Calculate the estimation intervals of your estimation model(s)	20 minutes	20%
7	Estimate the development effort for the Sports Paging System	20 minutes	15%
8	Present in a Powerpoint format your findings from Steps 1 to 7	30 minutes	10%
	Time Buffer	15 minutes	-
	TOTAL duration:	3.0 hours (180 minutes)	100%

Winners Annoucement

By the president of the COSMIC Group:

➤ Dr. **Francisco Valdés-Souto**

Challenge Winners – 3rd Position



3rd Best Team:



Students team members:

Sami Mammouche (Team leader)

Miro Gaonach-Lovejoy

Marc-Olivier Filion

Teacher: **Jean-Sébastien Gervais**

Challenge Winners – 2nd Position



2nd Best Team:



Students team members:

Aslam Main Idal (Team leader)

Palmuk Bilge Kağan

Koçer Hilal

Professors: **Dr Tuna Hacaloglu & Dr Bilge Say**

Challenge Winners – 1st Position

1st Best Team:



Students team members:

Justin Lussier (Team leader)

Xavier Dugas-Frenette

Rosalie Morin

Cédric Pharand

Mathieu Roy

Olivier St-Pierre

Valérie Lemieux

Teacher: **David-Alexande Paquette**



Follow-up instructions

- Awards & certificates will be sent to the winning team leaders
- Team total scoring will be sent to respective tutors-teachers





**Thanks to all
participating teams,
professors-tutors
&
COSMIC volunteers**



ESTIMATION CHALLENGE

Software Estimation Challenge - 2022



Call for participation

Estimating software projects is intellectually stimulating and challenging and worth entering an International Award.

The aim of the Challenge is to provide a rigorous education exercise in software effort estimation, presented as a real-world case study with a variety of user study with the added benefit of providing a fun and interactive challenge for participants.

Challenge is open to:

Students:
A Case Study with detailed contextualised set of requirements will be provided on the early morning of the Estimation Challenge day.
Incentives will then be given and prizes through a competition in estimating the duration and cost of the project in the case study within a half-day time period (duration of 2 hours) leading to a Recognition Award to the Student Winner.

more information:
Alan Moran
alan_moran@cosmic.ac

Submission:
Saturday, April 9, 2023 (9:00 a.m. to 11:00 p.m. Mountain time)

Prizes:
1st place: 100 Euros
2nd place: 50 Euros
3rd place: 20 Euros

cosmic.ac

See you next year