

**Formal Methods Europe
Minutes of the 82th meeting
Held online
24 November 2025
www.fmeurope.org**

Present at the meeting were:

- Maurice ter Beek [CNR-ISTI]
- Simon Bliudze [INRIA]
- Manuel Capel [U. de Granada]
- Gustavo Carvalho [U. Federal de Pernambuco]
- Ana Cavalcanti (Chair) [U. York] (from agenda item 3)
- John Cooke [Loughborough U.]
- Agostino Cortesi [U. Ca' Foscari Venezia]
- Mariangiola Dezani [U. di Torino]
- Lars-Henrik Eriksson (Secretary) [Uppsala U.]
- Alessandro Fantechi [U. Firenze]
- Adrian Francalanza [U. of Malta]
- Carlo A. Furia [U. della Svizzera italiana]
- Einar Broch Johnsen [U. Oslo]
- Cliff Jones [Newcastle U.]
- Peter Gorm Larsen [Aarhus U.]
- Claudio Menghi [U. Bergamo]
- José Nuno Oliveira [U. of Minho]
- Luigia Petre [Åbo Akademi]
- Nico Plat [Thanos]
- Violet Ka I Pun [Western Norway U. of Applied Sciences]
- Matteo Rossi [Politecnico di Milano]
- Augusto Sampaio [U. Federal de Pernambuco]
- Cristina Seceleanu [Mälardalen U., Sweden]
- Volker Stolz [Western Norway U. of Applied Sciences]
- Marielle Stoelinga [U. of Twente] (until agenda item 6)

1 Welcome and agree upon agenda

In the chair's absence, Deputy Chair Maurice ter Beek welcomed the members present. The agenda was agreed upon. Decided to have agenda item 6 after item 2 as Marielle Stoelinga had to leave. Decided to take agenda item 3 after item 8 as Ana Cavalcanti was not yet present.

2 Minutes of the previous meeting

The minutes of the March 2025 meeting were approved.

6 Status report on FM'26

Maurice ter Beek reported: Submissions number looks good so far – about 93 abstracts at the moment (including the TAP track) with more than one day to go. Discussion about Generative AI policy for submissions. Agreed to not have any specific rules this time, but Marielle Stoelinga (PC co-chair) will make notes of any positive or negative reactions. Announcement of the Lucas award. Maurice ter Beek thanked the awards committee for its work.

4 FM4All work plan

Luigia Petre presented the work plan for 2026 (attached to the minutes).

5 Budget for 2026

Nico Plat presented the budget proposal for 2026 (attached to the minutes). The meeting approved of the budget with the change of removing the travel costs for the Lucas Award awardee (line 08) because he will pay for his own travel. Nico noted that the FM4ALL/Know-FM funding in the 2025 budget (line 12) was not actually paid out but will remain as a debt to be paid in 2026. As this item was budgeted for 2025 it is included in the 2025 economic result but will not affect the 2026 result.

7 FormaliSE

Claudio Menghi reported on the current status of FormaliSE 2026. The conference will be held in Rio de Janeiro, Brazil, in conjunction with ICSE'26. There were 32 regular paper submissions and 8 artifact paper submissions. This is considered ok given that the submission deadline is close to the FM deadline. The submission deadline was extended 2 weeks. Reviews are ongoing and expected to be done before Christmas.

8 Committee activities

Book Review Committee: Matteo Rossi reported on committee activities. (A presentation is attached to the minutes.)

Communications Committee: Einar Broch Johnsen reported on committee activities. The committee is providing information for the community. It is using social media such as LinkedIn, X, Blueskym Mastodon and YouTube. It is also maintaining the FME web site. FME has created a mailing list for Steering Committees of the FM related events for coordinating event dates.

Industry Committee: Jeroen Keiren has been appointed new Chair meaning re-appointment of committee members. His presentation is attached to the minutes. Maurice ter Beek thanked the previous chair Tim Willemse and the whole of the old committee.

Teaching Committee: Luigia Petre reported on committee activities. Her presentation is attached to the minutes

3 Plans for 2026

Ana Cavalcanti presented the plans of the Board for 2026 (attached to the minutes). The meeting approved of the plans.

9 Events list policy

Discussion of a possible policy change to allow calls for journal submissions on the FME Events mailing list. Decided to allow a trial period allowing calls for special issues in reputable journals clearly related to FM. One announcement posting plus one reminder posting will be allowed.

10 Suggestions from new members

The board has received two suggestions from new members:

- Consider quarterly review of works in FM. There are no resources for this and it is also possibly out of scope of FME's mission.
- Get more FM content into general industry conferences, to raise awareness to this domain. Industry Committee chair Jeroen Keiren sees this as a possibility, but much depending on available resources.

11 Date and place of next meeting

The next meeting will be the 2026 AGM. It is planned to be held during FM'26 in Tokyo.

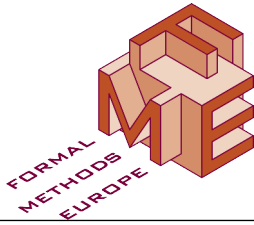
12 Other business

Ana Cavalcanti mentioned that DisCoTec organisers have asked FME to store the surplus funds from DisCoTec 2025 awaiting the formation of a DisCoTec organisation with its own bank account. The meeting did not see any problems with this.

Carlo Furia said that the FME Board is accepting interest notifications for organising FM'27 until mid-January. From FM'27 on, the FM Symposia will be annual. Interest notifications for FM'28 are also accepted.

(Lars-Henrik Eriksson)
FME Secretary

(Ana Cavalcanti)
FME Chair



Priorities

- Success of FM 2026 and FormaliSE 2026
- Continue the discussion of the issues related for Formal Methods Education, supporting FM4ALL
- Improve the support for FM organisers to ensure a smooth transition to annual editions of the event, and potential increase in its size.
- Support coordination of conferences in formal methods

Symposia

The main focus is the successful running of FM2026 and FormaliSE 2025 and FM2026. We will also start preparations for holding the event annually and for the possibility that it will include multiple tracks and co-location with other events. Our documentation will be improved, as will some of our procedures.

Responsible: Maurice ter Beek, Carlo Furia, and Ana Cavalcanti

Membership

We have achieved a sustainable (modestly increasing) level of membership. We will continue to make sure that the membership reflects the active members of the society.

Responsible: Lars-Henrik Eriksson

Finances and sponsorship

We do not foresee a need to review our policies fundamentally in the coming year. We will discuss with the membership the possibility of inviting special initiatives to use surplus funds.

Responsible: Nico Plat

External relations

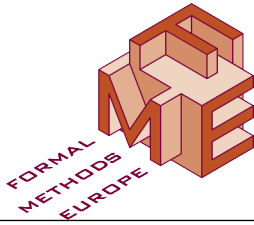
We will continue our cooperation with BCS-FACS and FMICS. We will continue to support the work of the committees.

Responsible: Ana Cavalcanti

Communications

We will continue to work with the Communications Committee to maintain the vitality of the various means of interaction with the community. Besides the website, which will remain as the FME's primary medium for disseminating its activities, we are using X, Bluesky, Mastodon, LinkedIn, and YouTube. We will continue holding the FME meetings also online. We will revisit the publicity plans for FM. We will seek to harmonise the publicity of the FM symposia via use of a website that is hosted by FME.

Responsible: Carlo Furia, Einar Johnsen, and Ana Cavalcanti



FME Fellowship and Lucas Award

We will confer a Lucas Award during FM2026, and work with the Awards Committee to prepare to confer a fellowship during FM2027.

Responsible: José Nuno Oliveira and Ana Cavalcanti

Book reviews

We will continue to work with the Book Review Committee to establish a steady stream of publications. The Book Review Committee will strive to provide a steady stream of reviews, which will be made available through the FME website. In addition, collaboration with the Formal Aspects of Computing journal will be strengthened, by establishing periodic meetings with the book review editor of the journal.

Responsible: Matteo Rossi

Support for teaching

We will continue to work to ensure the success of FMTea and the tutorial series, and to maintain the course database. We will discuss the role of FMTea in FM, considering its needs as a workshop and key role as an initiative of the Teaching Committee. We are going to run a worldwide effort, FM4ALL, to define the FME guidelines to teaching Formal Methods to Computer Science students. As part of that effort, we will engage with ACM to contribute to their efforts on Computer Science curricula.

Responsible: Luigia Petre

Formal methods in industry

Renew the Industry Committee and work with a new Chair and new members to establish detailed plans and strategy.

Responsible: Ana Cavalcanti

Coordination of events

In cooperation with ETAPS, we will continue to manage a list of representatives of the Steering Committee of conferences in the area of formal methods. We will encourage discussion and harmonisation of important dates for formal methods events. We will also keep the list of upcoming events in our homepage up to date and comprehensive to include major events in the area of formal methods.

Responsible: Ana Cavalcanti and Einar Johnsen

FME proposed budget 2026 (v1.0)

		<i>Budget 2025</i>				<i>Budget 2026</i>			
		Surplus and deficit		Balance		Surplus and deficit		Balance	
No.	Description	Debit	Credit	Beginning	End	Debit	Credit	Beginning	End
[01]	Bank assets			€93 451,82	€73 922,82			€83 922,82	€63 022,82
	Administrative items								
[02]	Interest received on deposit account		€1 500,00				€1 200,00		
[03]	Banking and organisational cost	€300,00				€300,00			
[04]	IT infrastructure	€300,00				€300,00			
	Operational items								
[05]	Surplus FM 24 Milan			€2 771,00					
[06]	Surplus FM 26 Tokyo						€15 000,00		
[07]	Open Access costs FM 26					€7 000,00			
[08]	Travel costs Lukas Award winner					€4 000,00			
[09]	FormaliSE	€4 000,00				€4 000,00			
[10]	Sponsorships previous year			-€1 700,00					
[11]	Sponsorships current year	€3 500,00				€3 500,00			
[12]	Know-FM	€10 000,00						-€10 000,00	
[13]	Travel costs FME Board	€2 500,00				€6 500,00			
[14]	Miscellaneous	€250,00				€250,00			
[15]	Committee funding	€1 250,00				€1 250,00			
[16]	Subtotals	€22 100,00	€1 500,00	€94 522,82	€73 922,82	€27 100,00	€16 200,00	€73 922,82	€63 022,82
[17]	Differences	-€20 600,00		-€20 600,00		-€10 900,00		-€10 900,00	
[18]	Totals	€1 500,00	€1 500,00	€73 922,82	€73 922,82	€16 200,00	€16 200,00	€63 022,82	€63 022,82

Remarks	
[01]	Interest received in our savings account will increase, in line with global trends. Bank assets beginning 2026 will be higher than predicted because FM-Know budget
[06]	Low estimate based on the budget for FM 26 as agreed upon with FME
[07]	FME will pay 50% of the costs for OA.
[08]	Not included in the symposium budget (we will make sure it will be in the years to come), hence FME pays for it this time.
[09]	FormaliSE 2026 will be held in Rio de Janeiro, Brazil.
[12]	In 2025 no costs will be paid (pending project plan) but we expect to pay this in 2026.
[13]	In the years before the travel budget allocated for the board was €3.500, based on five board members. Currently we have a sixth board member (Carlo Furia), which requires an increase in the budget. Furthermore, the AGM in 2026 will be held in Japan at FM '26. Both the AGM and FM'26 require, in principle, board member presence. Traveling to Japan is more expensive than the normal situation: a business meeting at a location in Europe. Therefore, the proposed travel budget for 2026 has been increased with an additional 50%, resulting in a total budget of €6.500.

Book Review Committee

FME Business Meeting
November 24th, 2025



Goal

- provide to the FM community high-quality reviews of books on topics of interest to the community
- reviews highlight the strengths and weaknesses of the book, to help researchers who are looking for reference texts in their areas of interest

Committee

- Simon Bliudze (INRIA Lille, FR)
- Wan Fokkink (Vrije Universiteit Amsterdam, NL)
- Constance Heitmeyer (Naval Research Laboratory, US)
- Einar Broch Johnsen (University of Oslo, NO)
- Matteo Rossi (Politecnico di Milano, IT)

- bookreview@fmeurope.org
- <https://fmeurope.org/book-review/>

Procedures

- BRC members select books of interest, then ask esteemed colleagues to review them (or review them themselves)
- reviews are not anonymous
- published on FME website, but also possibly on Formal Aspects of Computing journal
 - <https://fmeurope.org/categories/bookreviews/>
- Committee meets every 3 months via conference call

Status

- 2 reviews sent to Communications Committee for publication on the website
- Looking for reviewers for reviews to be launched shortly
- News of reviews spread through FME mailing lists

MoU with FAoC journal

- Exchanged ideas and drafts with Book Review editor of FAoC regarding a Memorandum of Understanding detailing the interaction between BRC and journal

FME Industry committee

Update

24 November 2025

Composition of committee (up to 2025)

- Tim Willemse (chair) – Netherlands
- Jeroen Keiren (secretary) – Netherlands
- Carla Ferreira – Portugal
- Leo Freitas – UK
- Mario Gleirscher – Germany
- Cláudio Gomes – Denmark
- Peter Höfner – Australia
- Kristin Yvonne Rozier – USA
- Cristina Seceleanu – Sweden



Industry committee Objectives

- Increase the awareness & use of FM in *industry*
- Increase awareness of industrial use of FM in *our community*
- Increase ties between our community and industry

Activities in 2025

- WG on *FM in industry series* (Cristina, Leo, Mario, Tim)
- WG on *FM tool videos* (Carla, Cláudio, Jeroen, Peter)
- Involved in organising Industry Day@FM/FMICS
- Integrated website of FME-IC into FMEurope website (with Comm²)
 - Improves advertising/disseminating activities
 - Old website should be updated with redirects to new website
- Maintained lists of *FM tools, users and vendors*
- Several members involved in white paper *Formal Methods in Industry*

Working Group on *FM in Industry Series*

Aim: promote the interaction between FM community and industry

- Format of series: online sessions of ~45 minutes with speaker from industry
- Audience: fellow academics *and* interested industrial partners
- InFM talk organised in 2025:
 - David Delmas (Airbus, FR): '*Formal Verification of Avionics Software*'

Website integration

- Awards Committee
- Book Review Committee
- Communications Committee
- Industry Committee
- Teaching Committee

FME Industry Committee

The FME Industry Committee aims to support the industry as to the usability of various methods in practice, as well as to obtain feedback from industry. The committee's objectives are to:

1. increase the use and awareness of formal methods in industry.
2. increase academic awareness industrial use of formal methods.
3. promote the collaboration between the formal methods community and industry.

To this end, the committee organises talks and tracks the industrial adoption and offering of formal methods.

The InFM Sessions

InFM is a series of online talks, organised by the committee and is aimed at people working in industry wishing to learn from others applying Formal Methods at industrial scale. The talks are also highly recommended to academics interested in applying and improving their methods, or seeing them applied. See the [InFM](#) page for upcoming and past talks.

Formal Methods and the Industry

The committee aims to inform the industry about [which formal methods are available](#), which companies [use formal methods](#), and which companies [offer formal methods](#) and consultancy. This [video](#) contains an interview with three industrial engineers on the topic: Formal Methods in the Industrial Domain.

Industry Committee Members

- [Carla Ferreira](#), NOVA University of Lisbon, Portugal
- [Leo Freitas](#), Newcastle University, UK
- [Mario Gleirscher](#), University of Bremen, Germany
- [Cláudio Ângelo Gonçalves Gomes](#), Aarhus University, Denmark
- [Peter Höfner](#), The Australian National University (ANU), Australia.
- [Jeroen Keiren](#), Eindhoven University of Technology, The Netherlands (*Secretary*)
- [Kristin Yvonne Rozier](#), Iowa State University, USA
- [Cristina Seceleanu](#), Mälardalen University, Sweden
- [Tim Willemse](#), Eindhoven University of Technology, The Netherlands (*chair*)

Contact

Please contact us if you would like to contribute, by sending an email to industry@fmeurope.org.

Share

RECENTS



NEWS
CALL FOR NOMINATIONS: EDITOR-IN-CHIEF FORMAL ASPECTS OF COMPUTING
2025-03-01



MEETINGS
FME ANNUAL GENERAL MEETING 2025 & FME/BCS-FACS TALK BY MAURICE TER BEEK
2025-02-19



MEETINGS
80TH FME MEETING, 13 DECEMBER 2024
2024-12-10



CURRICULA
DOES EVERY COMPUTER SCIENTIST NEED TO KNOW FORMAL METHODS?
2024-10-02



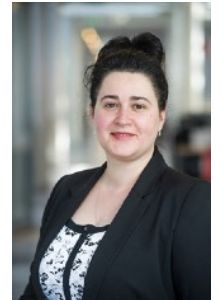
BOOK REVIEWS
BOOK REVIEW: UNDERSTANDING PROGRAMMING LANGUAGES
2024-10-01



BECOME A MEMBER

Composition of committee (2025 onwards)

- Tim Willemse stepped down as chair
 - Following regulations, to allow flexibility for new chair board asked rest of the committee to step down as well
- Jeroen Keiren (new chair, previously secretary) – Netherlands
- Cristina Seceleanu (new secretary) – Sweden
- Committee positions currently vacant
 - Will be filled in dialogue with board
 - Interested candidates can reach out to Jeroen Keiren (j.j.a.keiren@tue.nl)

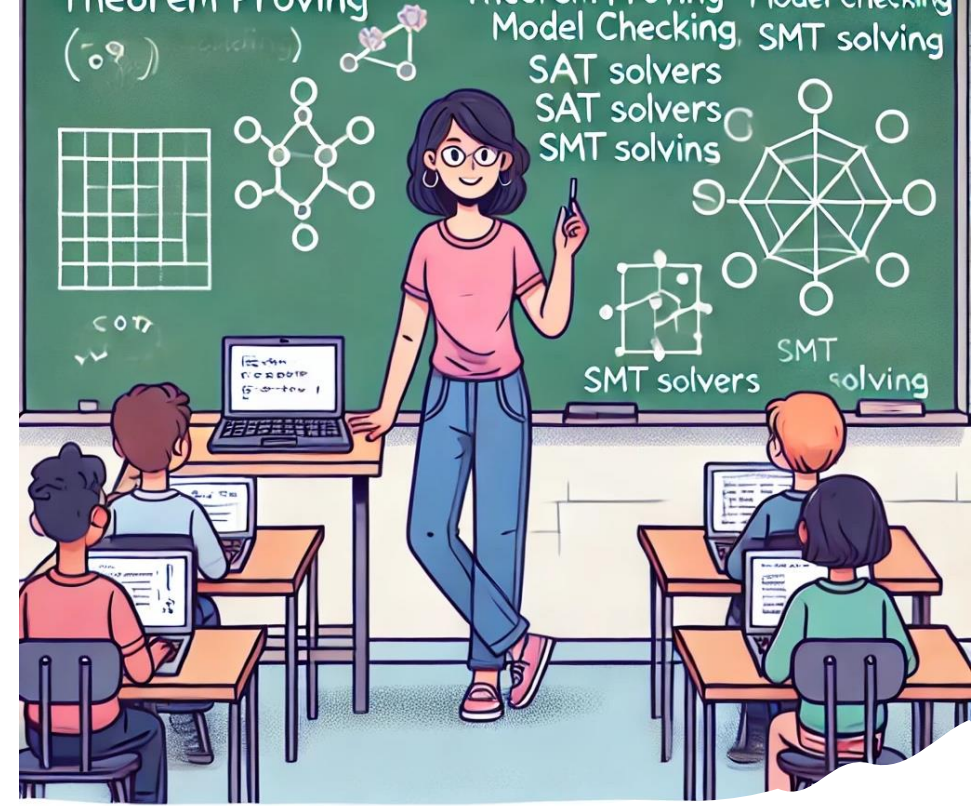
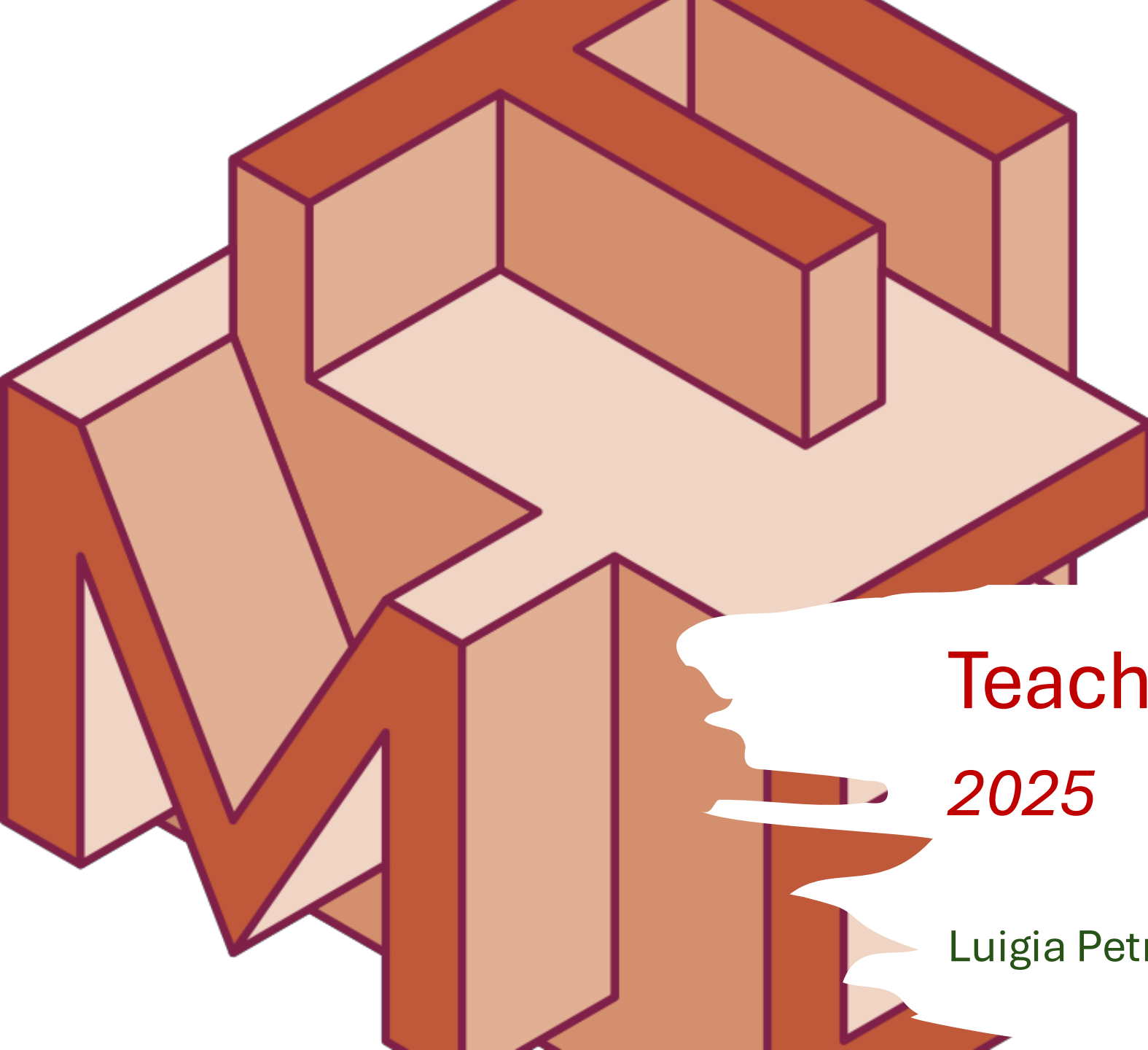


Plans 2026

- Compose new industry committee that includes industry advisers (suggestions welcome)

Current plans (may change in discussion with new committee members):

- Continue InFM series (possibly extend with academic talks)
- Help organizing FM 2026 Industry Day (Jeroen Keiren is co-chair)
- Liaise with communication committee on FM in Industry videos and/or tool videos
- Potentially pick up:
 - Archive of industrial case studies
 - Monitor trends in industry

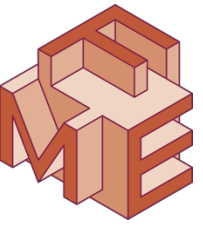


Teaching Committee

2025

Luigia Petre, ÅA University, Finland

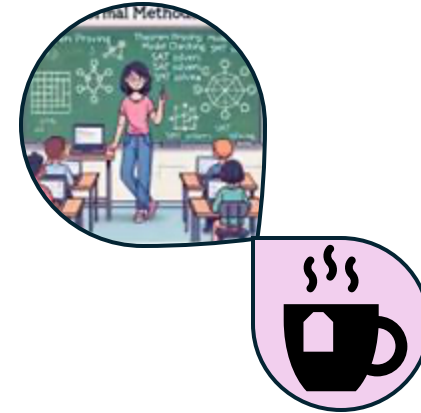
Who are we? → FME's Teaching Committee



- [Brijesh Dongol](#), University of Surrey, UK
- [Catherine Dubois](#), ENSIIE, France
- [João F. Ferreira](#), IST, University of Lisbon, Portugal
- [Alexandra Mendes](#), FEUP, University of Porto, Portugal
- [Luigia Petre](#) (chair), Åbo Akademi University, Finland
- [Leila Ribeiro](#), Federal University of Rio Grande do Sul, Brazil
- [Pierluigi San Pietro](#), Politecnico di Milano, Italy
- [Emil Sekerinski](#), McMaster University, Canada
- [Graeme Smith](#), The University of Queensland, Australia

What do we do?

- **FMTea workshop** on teaching Formal Methods
 - 2019, 2021, 2023, 2024, 2026
 - fmtea.github.io/
- **Collect Formal Methods courses** taught worldwide
- **”Monthly” tutorial series**
 - 26 speakers, next one on Friday, Nov 28, 2025
- **Work on a Curriculum of Formal Methods** in undergraduate/graduate Computer Science studies



FMTea 26: accepted as a workshop

Re: FM 2026: workshop proposal (FMTea 2026)



Elena Troubitsyna <elenatro@kth.se>

Wed 11/12/2025 8:59 AM

To: Gustavo Carvalho <ghpc@cin.ufpe.br>; t-yokoga@cse.oka-pu.ac.jp

Cc: Tsutomu Kobayashi <kobayashi.tsutomu@jaxa.jp>; Luigia Petre ^

↻ Reply all | v

Teaching Committee

Dear Gustavo,

We are happy to inform you that your workshop proposal has been accepted. The next step is to establish the workshop webpage. Soon we will get back to you with the technical details.

Best regards
Elena and Tomoyuki

FMTea27

- "FMTea day" from the 2027 edition on?
 - To define the activities
 - Based on the workshop part
 - Separate LNCS proceedings with Springer
 - Special Issue publication in a reputable Formal Methods journal, post event
- Why?
 - FMTea organised in conjunction with the the FM symposium since 2019 → 5 editions!
 - FMTea → very inclusive event
 - to establish ourselves as the education event for Formal Methods
 - continuous success in attendance demonstrated these past 6 years
 - Since 2019 → papers as a Lecture Notes in Computer Science volume of Springer
 - Do we attract high-quality papers ?
 - most novel and mature papers

Database of FM courses



FM Courses

Our searchable database of formal methods courses is [available online](#). You can use the form below to add a new course.

Submit a new course

Once you submit your course, an external Github page will open. **To confirm your submission, click the button *Submit new issue*.**

If you can't find a concept or tool in the list below, you can manually add them after submission, using the Github interface.

Course name

Course code, if applicable

University hosting the course



FME Education Course Database

Maintained by the [Formal Methods Teaching Committee](#)

Courses (106)

Search ...

1 2 3 4 5 Next → Last

Per Page:

Year/Level

All

Topics

- All
- Abstract Interpretation (3)
- Ada (1)
- Aliasing Issues (1)
- Alloy (4)
- Applied Formal Methods (23)
- Automated Reasoning (10)

Formal Methods in Software Engineering

Contact
Andrei ARUSOAI
Institution
Alexandru Ioan Cuza, University of Iasi
Country
Romania
Course concepts

Applied Formal Methods, Automated Reasoning, Axiomatisation, Axiomatic Semantics, Certified Compilation, Deductive Software Verification, Deductive Proof, Deductive Verification, Denotational Semantics

Automated Reasoning and Formal Verification

Contact
Roberto Sebastiani
Institution
University of Trento
Country
Italy
Course concepts
Automated Reasoning, Formal Specification, Logic, Linear Temporal Logic (LTL), Model Checking, SAT, SMT, Theorem Proving, Timed Automata, Temporal Logic
Languages/Tools
MetaSAT, Yices

Formal Methods

Contact
Lucas Lima
Institution
Universidade Federal de Pernambuco
Country
Brazil
Course concepts
Applied Formal Methods, Proof, Distributed Systems, Specification, Interaction, Proving, Labelled Transition Systems, Linear Temporal Logic, Checking, Process Calculi, Proof Assistants

Filters is:issue is:open Labels 265 Milestones 0 New issue

- 96 Open 7 Closed
- Software Quality** Finland #103 opened 4 days ago by luigiapetre
- Tools for Reliable Software Construction** Finland #102 opened 4 days ago by luigiapetre
- Critical Systems** #101 opened on Jul 19 by ghpc
- Introduction to Formal Methods in Software Engineering** Canada #100 opened on Jun 12 by FM-CONU
- Software Engineering 2** Italy #99 opened on May 15 by dlnitto
- Formal Method in Software Engineering** United States #98 opened on May 10 by klaeuffer
- Formal Methods** United States #97 opened on Apr 19 by mctague434
- Formal Methods in Software Engineering** Portugal

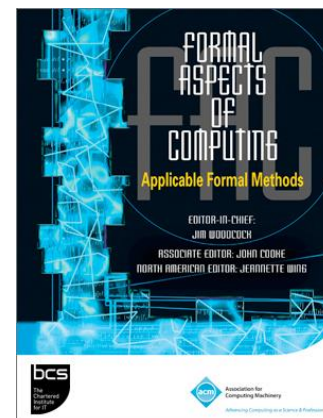
Tutorial Series

1. November 28, 2025: [Prof. Graeme Smith](#), University of Queensland, Australia: Autograding weakest precondition proofs and Dafny specifications
2. September 26, 2025: [Gustavo Carvalho](#), Universidade Federal de Pernambuco, Brazil: **From specifications to code with B: a personal account on teaching formal methods in Brazil**
3. August 1, 2025: [Dragana Milovancevic](#), EPFL, Switzerland: **Formal Autograding in a Classroom**
4. June 6, 2025: [Prof Philip Wadler](#), University of Edinburgh, UK: **Lambda, the Ultimate Teaching Assistant (Agda version)**
5. March 28, 2025: [Prof Peter-Michael Osera](#), Grinnell College, US: **Formal Verification and Foundations: Better Together!**
6. February 28, 2025: [Prof Marielle Stoellinga](#), University of Twente, The Netherlands: **Life long learning – experience with educational programs for professionals**
7. September 27, 2024: [Prof Rosemary Monaghan](#), Maynooth University, Ireland: **Teaching Dafny at undergraduate and MSc level on Irish and Erasmus+ European Degree programmes**
8. May 24, 2024, 3 pm CEST: [Prof Tiziana Margaria](#), University of Limerick, Ireland: **Teaching Formal Methods in Germany vs. Ireland: experience from two very different systems.**
9. March 28, 2024, 3pm CET: [Prof Wolfram Kahl](#), McMaster University, Canada: **Teaching with CalcCheck.**
10. March 1, 2024, **10 am CET!**: [Prof Carroll Morgan](#), University of New South Wales, Australia: **Teaching formal methods informally: a report from the front line.** The recording of Prof. Morgan's lecture is [here](#). A few screenshots from the lecture can be seen [here](#).
11. January 26, 2024, 3pm CET: [Prof Alcino Cunha](#), University of Minho ([Department of Informatics](#)), Portugal: **Teaching Alloy with Alloy4Funin Software Engineering**
12. June 16, 2023, 3 pm CEST: [Prof Laura Kovács](#), Vienna University of Technology ([TU Wien](#)), Austria: **Teaching Formal Reasoning at TU Wien.**
13. May 26, 2023, 3 pm CEST: [Research Director Thierry Lecomte](#), [ClearSy](#), France: **Teaching and Training in Formalisation with B.**
14. April 28, 3, 2023 pm CEST: [Associate Prof Stefan Hallerstede](#) (Aarhus University, Denmark): **A guide to Not teaching Formal Methods.**
15. March 31, 3, 2023 pm CEST: [Associate Prof Emil Sekerinski](#) (McMaster University, Canada): **Teaching Concurrent Programming. 2022:**
16. December 9, 2022, 3 pm CET: [Principal Research Engineer Markus A. Kuppe](#), (RiSE group at Microsoft Research, US): **Stories from the trenches: Teaching the TLA+ specification language in Industry.**
17. October 28, 2022, 3 pm CEST: [Dr Allan Blanchard](#) ([CEA-LIST](#), France): **Formal methods for beginners and for C programs - Using Frama-C and its WP plug-in for teaching.**
18. September 30, 2022, 3 pm CEST: [Prof Michael Leuschel](#) (Heinrich-Heine-University Düsseldorf, Germany): **Teaching Formal Methods and Theoretical Computer Science with ProB.**
19. August 26, 2022, 3 pm CEST: [Dr Robert Lewis](#) (Brown University, US): **Teaching the theory and practice of proof assistants with Lean.**
20. July 29, 2022: [Prof Erika Abraham](#) (RWTH Aachen University, Germany): **Automatic exercise generation for satisfiability checking.** The recording of Prof. Abraham's lecture can be seen [here](#). A few screenshots from the lecture can be seen [here](#). In the lecture, Erika presents her course on satisfiability checking, that includes both SAT and SMT. This is an elective course. In 2008,
21. June 17, 2022: [Dr Tim Nelson](#) (Brown University, US): **Building Formal Methods Classes for Everybody**
22. (Thursday!!) April 28, 2022, 3 pm CET: [Prof. Jeremy Gibbons](#) (University of Oxford, UK): **How to Design Co-Programs.**
23. February 25, 2022, 3 pm CET: [Prof Shriram Krishnamurthi](#) (Brown University, US): **From Tests to Properties: Property-Based Testing Using Relational Problems.**
24. December 10, 2021, 9am CET: [Assoc Prof David Pearce](#) (Victoria University of Wellington, New Zealand): **Teaching Software Verification with Whiley.**
25. October 29, 2021, 3pm CET: [Dr Ran Ettinger](#) (Ben-Gurion University, Israel): **Teaching Cantor's theorem, a pumping lemma, and the derivation of a heapsort algorithm using Dafny.**
26. September 24, 2021, 3pm CET: [Prof Sandrine Blazy](#) (University of Rennes 1, France): **Why3 tool for deductive program verification.**

ACM Curriculum



- New edition since January 2024
 - 17 knowledge areas (KA)
- Formal Methods appear as elective topics in
 - Fundamental of Programming Languages (KA)
 - Software Engineering (KA)
- Special Issue on Education appeared (3 papers, 35 authors)
 - February 2025
 - Papers advocate the promotion of FM as knowledge area
 - [On Formal Methods Thinking in Computer Science Education](#)
 - [Does Every Computer Scientist Need to Know Formal Methods?](#)
 - [Formal Methods in Industry](#)



FME Guidelines to FM as Knowledge Area

- Create our version of FM as a knowledge area
 - Called “**FM4All**”
 - FME-endorsed + financed

Activity plan from November 2025 on

Milestone	Created by	Comments by	Completed by
LOs	31.10.2025	30.11.2025	15.12.2025
KUs corresponding to LOs	15.11.2025	15.12.2025	31.1.2026
Add topics to each KU and teaching hours per topic	15.12.2025	31.1.2026	28.2.2026
Define courses based on FM-KA topics	15.1.2026	15.2.2026	15.3.2026
Write preamble	15.2.2026	15.3.2026	15.4.2026
Links to other KAs	15.3.2026	15.4.2026	15.5.2026
<u>Professional</u> dispositions and math requirements for KA	15.4.2026	15.5.2026	18.5.2026