

Formal Methods Europe
Minutes of the 69th meeting (AGM)
Held online
9 April 2020
www.fmeurope.org

Present at the meeting were:

- Farooq Ahmad
- Domenico Bianculli
- Jonathan Bowen
- José C. Campos
- John Cooke
- Ana Cavalcanti (Chair)
- Lars-Henrik Eriksson (Secretary)
- Alessandro Fantechi
- Saad Farooqi (not an FME member)
- Marie Farrell
- Carlo Furia
- Stefania Gnesi
- Klaus Havelund
- Marieke Huisman
- Cliff Jones
- Einar Broch Johnsen
- Dino Mandrioli
- Diego Marmosoler
- Claudio Menghi
- José Nuno Oliveira
- Luigia Petre
- Nico Plat
- Matteo Rossi
- Maurice ter Beek
- Marcel Verhoef
- Naijun Zhun

1 Welcome and agree upon agenda

Ana Cavalcanti welcomed the members present. The agenda was agreed upon.

2 Invitation to join FME

All non-members present were invited to join FME.

3 Minutes of the previous meeting and review of actions

The minutes of the 2019 AGM and of the Porto meeting were approved.

There were no open actions.

4 Annual report for 2019

Lars-Henrik Eriksson presented the annual report of the board for 2019 (attached to the minutes). The meeting approved the report.

5 Financial report for 2019

Nico Plat presented the financial report for 2019 (attached to the minutes). The meeting approved the report.

6 Report by the Independent Financial Examiners

The independent financial examiners (Matteo Rossi and John Cooke) had individually checked the FME accounts. These reports are attached to the minutes. The meeting discharged the Treasurer from his responsibilities during this period. Ana Cavalcanti thanked the Treasurer and the Independent Financial Examiners for their work.

7 Elections

a) One board member (Chair), to serve until the 2023 AGM. In accordance with FME statutes, Ana Cavalcanti stepped down as Board member. Ana had indicated her willingness to serve a further term. There were no other candidates to take his position. Therefore, Ana was reelected unopposed.

b) One board member, to serve until the 2023 AGM. In accordance with FME statutes, Stefania Gnesi stepped down as Board member. Stefania had indicated her willingness to serve a further term. There were no other candidates to take her position. Therefore, Stefania was reelected unopposed.

c) One Independent Financial Examiner for 2020 and 2021. According to FME statutes, Matteo Rossi cannot serve another term as independent financial examiner. The meeting expressed its thanks for his service. Carlo Furia accepted taking this role. He was elected *nem con.*

8 Plan for 2020

Ana Cavalcanti presented the plans by the Board for 2020 (attached to the minutes). The meeting approved the plans.

9 Budget for 2020

Nico Plat presented the budget for 2020. The meeting approved the budget *nem con.*

10 Symposia

a) Report on FM'19

José Oliveira reported on the experiences from the 3rd Congress on Formal Methods and FM'19. Stefania Gnesi expressed the thanks of the association to José and to the FM'19 Programme Committee chairs Maurice ter Beek and Annabelle McIver for making the event such a great success.

b) Status report on FM'21

Stefania Gnesi says that due to the uncertainty of how the Covid-19 pandemic will play out, we should postpone the symposium until the autumn of 2021. The symposium should be held as late as possible to give the best chance that the pandemic will have subsided. December in Beijing is too cold according to Naijun Zhun. Ana Cavalcanti says the new dates will probably be in November. PC chairs Naijun Zhan and Marieke Huisman say that November is ok.

11 FormaliSE

Nico Plat and Stefania Gnesi reported on the current status of FormaliSE 2020. This year it will be a two-day event. (Report attached to the minutes.)

12 Book Review Committee report

Matteo Rossi reported from the Book Review Committee. (Report attached to the minutes.)

13 Teaching Committee report

Luigi Petre reported from the Teaching Committee. (Report attached to the minutes.)

14 Communications Committee report

Einar Broch Johnsen reported from the Communications Committee. (Report attached to the minutes.)

15 Industry Committee report

Klaus Havelund reported from the Industry Committee. (Report attached to the minutes.)

16 Collaboration with BCS-FACS

Due to the pandemic this AGM could not be held in London as first planned. Jonathan Bowen said that an FME/BCS-FACS meeting later in the year is possible if the situation improves.

17 Date and place of next meeting

The next meeting will be held in the autumn, as decided on by the board..

18 Other Business

There was no other business.

Summary of open actions

None.

Formal Methods Europe: report on activities in 2019

The FME Board March 2020

This report is a brief account of the association's activities between 1 January 2019 and 31 December 2019.

1. Board

Board members during the period were Ana Cavalcanti (Chair), Lars-Henrik Eriksson (Secretary), Erik de Vink (up to the AGM, Treasurer,), Nico Plat (after the AGM, Treasurer), Stefania Gnesi (Symposia and Deputy Chair), Einar Broch Johnsen (Publications).

2. Membership]

On 31 December 2019 the association had 358 members in total, an increase of 45 from the previous year.

269 members (75%) come from academic institutions, 65 (18%) from commercial institutions and 24 members (7%) have no affiliation or come from other institutions (e.g. non-academic research institutes). Roughly 71% of the members are based in Europe. Only a small part of the membership (estimated at less than 10%) is actively involved in FME activities.

103 of the members have a suspended status because of unknown contact details. (They could not be reached for an membership details update request in 2016.)

3. Symposia/Conferences

FM'19

FM'19 was organised as part of the FMWEEK World Congress and held in Porto, Portugal, the week starting October 7, 2019. The general chair was José Nuno Oliveira (University of Minho) and the PC chairs were Maurice ter Beek (CNR-ISTI) and Annabelle McIver (Macquarie University). The I-day chairs were Joe Kiniry (Galois, Inc.) and Thierry Lecomte (ClearSy).

For the first time, the FM symposium had a "journal-first" session with presentations of previously published journal papers. 39 regular papers, 3 "journal-first" papers, 5 I-day papers and 10 Doctoral Symposium papers were accepted. FM 2019 invited speakers were Erik Poll, (Radboud University) June Andronick (Data61/CSIRO) and Shriram Krishnamurthi (Brown University), the I-Day invited speaker was Michael Leuschel (University of Düsseldorf) and the Doctoral Symposium invited speaker was Sung-Shik Jongmans (CWI).

There were 186 registrations, but the actual numbers of attendants could be higher as participants in parallel FMWEEK events could also attend. FMWEEK included 8 other conferences. 18 workshops and 5 tutorials were organized as satellite events. FMWEEK had a total of 610 participants.

FormaliSE

FormaliSE was held on May 27, co-located with ICSE in Montréal, Canada. As usual Stefania Gnesi and Nico Plat were General Chairs. The PC chairs were Nancy Day (University of Waterloo) and Matteo Rossi (Politecnico di Milano). The event had

some 45 attendants and 13 papers were accepted. The keynote speaker was Jeff Joyce (Critical Systems Labs).

4. Publications

The FME website was maintained by Einar Broch Johnsen. The FME mailing lists were maintained by Lars-Henrik Eriksson and hosted by Uppsala University

FME maintains a list of FM events including important dates. The list is available on the FME web site.

The FME events@fmeurope.org e-mailing list is available for announcements related to established conferences in the FM area as well as events organised or sponsored by FME.

FME also has a presence on the LinkedIn web site.

The FME Communications Committee has worked with widening the means of reporting information and spreading interest about FME.

5. Grants and sponsorships

During 2019, FME has sponsored the FormaliSE 2019 conference. Refer to the Financial Report for details.

6. Special Interest Groups

FME currently has no Special Interest Groups.

7. Standing Committees

FME currently has five standing committees: The Book Review Committee (contact: Matteo Rossi), the Awards Committee (contact: Augusto Sampaio), the Teaching Committee (contact: Luigi Petre), the Communications Committee (contact: Einar Broch Johnsen), and the Industry Committee (contact: Klaus Havelund).

8. Industry-Research Collaboration

FME has a Memorandum of Understanding with FMICS to collaborate in holding an annual joint industry-focussed event.

There is also a Memorandum of Understanding between FME and the British Computer Society Specialist Group on Formal Aspects of Computing Science (BCS-FACS) on holding an annual joint seminar.

9. Meetings

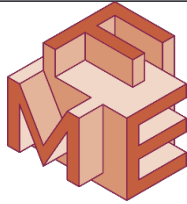
Two meetings were held in 2019. The AGM was held in London (United Kingdom) on April 3. For the first time, FME also made participation via weblink possible. 20 members participated in the meeting, of which 10 by weblink. A business meeting was held in Porto (Lisbon) on October 9 during the FM 2019 Symposium. 32 members and 10 non-members participated in that meeting.

Additionally, the Board held board meetings both in connection with FME meetings and using Skype.

10. Awards

The FME Fellow Award was awarded to José Meseguer. The Peter Lucas award for a "highly influential paper" in Formal Methods was awarded to Paul Syverson and Stuart

Stubblebine for their paper "Group Principals and the Formalization of Anonymity", presented at the FM'99 World Congress.



Financial Report 2019 Budget 2020

March 11, 2020
Formal Methods Europe

Prepared by Nico Plat (Treasurer)

Introduction

This document provides:

- A look at the past: the 2019 budget as approved at the 67th FME meeting, AGM 2019, held on 3 April 2019 at the BCS-FACS offices in London, UK (minutes available from <http://www.fmeurope.org>).
- The proposed 2020 budget.

Although income and assets declined the past years, the association has remained financially solid. We have always had sufficient means to cover the potential financial risks involved in organizing our future symposia. However, as interest rates are nihil the possibility to limitedly support the formal methods community at large by sponsoring additional events is limited and stays dependent on the income from the FME Symposia. We are happy to report that FM 2019 will provide a significant surplus (although the exact amount is unknown at the time of writing this report) that will increase the financial situation of the association into a comfortable position.

For 2020 the treasurer proposes to continue the support for FormaliSE, now positioned at the 8th International Conference on Formal Methods in Software Engineering co-located with ICSE 2020 in Seoul. The treasurer also proposes to reopen the possibility of sponsoring other events, in line with the goals of the association. For the years to come the board and the membership of the association need to keep monitoring the balance between income and spending in the long run.

The bank statements and cashbook of our association for 2019 are reviewed by the independent financial examiners: John Cooke and Matteo Rossi (FME members). The treasurer asks for discharge of his duties for the financial year 2019.

Rotterdam, February 2020

Nico Plat
Treasurer

Approved Budget 2019 and Financial Report 2019

Below the budget for FME as it was approved by the membership at the Annual General Meeting 2019 (minutes available from <http://www.fmeurope.org>). The budget is presented in the same table as the financial results for 2019, to ease comparison between the two.

No .	Description	Budget 2019				Results 2019			
		Surplus and deficit		Balance		Surplus and deficit		Balance	
		Debit	Credit	Debit	Credit	Debit	Credit	Debit	Credit
01	Nett assets regular account (31-12-2018)			€ 127,00				€ 127,00	
02	Nett assets savings account (31-12-2018)			€ 56.413,97				€ 56.413,97	
03	Total assets end 2019				€ 51.340,97				€ 54.375,71
	Administrative items								
04	Interest received on deposit account		€ 0,00				€ 0,00		
05	Banking and organisational costs	€ 200,00				€ 135,00			
	Operational items								
06	Surplus FM'2018 Oxford		€ 0,00				€ 2.273,62		
07	Surplus FM'2019 Porto		p.m.				€ 0,00		
08	ICSE/Formalise 2019	€ 2.500,00				€ 2.500,00			
09	Joint BCS-FACS seminar	€ 500,00				€ 138,63			
10	Travel costs FME Board	€ 2.000,00				€ 1.627,02			
11	Miscellaneous (not budgeted)					€ 38,23			
12	Subtotals	€ 5.200,00	€ 0,00	€ 56.540,97	€ 51.340,97	€ 4.438,88	€ 2.273,62	€ 56.540,97	€ 54.375,71
13	Net deficit	-€ 5.200,00		-€ 5.200,00		-€ 2.165,26		-€ 2.165,26	
14	Totals	€ 0,00	€ 0,00	€ 51.340,97	€ 51.340,97	€ 2.273,62	€ 2.273,62	€ 54.375,71	€ 54.375,71

With respect to this report, the following observations can be made:

- [04] No interest was received on the savings account this year. This is in line with global current trends.
- [05] Banking costs and other operational costs were a bit less than projected.
- [06] The books for FLoC 2018 in Oxford were closed and a surplus was paid to FME. A break even was originally expected.
- [08] The FormaliSE conference in 2019 was co-located with the ICSE 2019 conference in Montréal, Canada. The support was used for covering part of the organizing and travelling costs.
- [09] There was a joint BCS-FACS/FME seminar in London. Travel expenses were paid to the invited speaker, but these were less than the projected amount.
- [10] The board held two physical meetings, viz. in London and Porto. Travel expenses were slightly less than expected.
- [11] An amount of € 38,23 was paid for the medal for the FME Fellow.
- [13] The fiscal year 2018 was closed with a deficit of € 2.165,26.
- [14] Total assets at the end of the year were € 54.375,71.

It is observed that the deficit of € 2.165,26 was less than the amount of € 5.200,00 projected. This is mostly due to the (unexpected) surplus of FM 2018 in Oxford.

Proposed Budget for 2020

The total gross available assets of the association on 1 January 2020 are € 54.375,71. This value is the starting point for the budget 2020, as shown below. The budget shows a surplus of € 23.000, leading to total gross assets of € 77.375,71 by 31 December 2020.

		Budget 2020			
		Surplus and deficit		Balance	
No.	Description	Debit	Credit	Debit	Credit
01	Nett assets regular account (31-12-2019)			€ 2.265,62	
02	Nett assets savings account (31-12-2019)			€ 52.110,09	
03	Total assets end 2020				€ 75.875,71
	Administrative items				
04	Interest received on deposit account		€ 0,00		
05	Banking and organisational cost	€ 200,00			
06	IT infrastructure	€ 50,00			
	Operational items				
07	Surplus FM'2019 Porto		€ 30.000,00		
08	ICSE/Formalise 2020	€ 2.500,00			
09	Sponsorships	€ 3.500,00			
10	Travel costs FME Board	€ 2.000,00			
11	Miscellaneous	€ 250,00			
12	Subtotals	€ 8.500,00	€ 30.000,00	€ 54.375,71	€ 75.875,71
13	Net surplus	€ 21.500,00		€ 21.500,00	
14	Totals	€ 30.000,00	€ 30.000,00	€ 75.875,71	€ 75.875,71

Remarks:

- [04] and [05] Interest and banking costs will be comparable to 2019 levels.
- [06] IT infrastructure concerns cloud storage for the FME data archive.
- [07] The surplus for FM'2019 in Porto has been much more than could have been expected, and it is the main reason for the significant surplus that is expected for this year's budget.
- [08] FME organizes Formalise as a separate event at ICSE 2020 in Seould, South Korea. With ICSE being held in Asia, FME sponsoring is set to € 2.500 to cover travel expenses and organizational cost.
- [09] Given the surplus expected for this year, the board proposed to set aside a budget of € 3.500 for other events this year, in-line with the goals of the association.
- [10] Travel costs for the board to accommodate for the AGM 2020 in London and a business meeting later this year (to be decided).
- [11] For unforeseen costs.

END OF REPORT

Dr John Cooke

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E-mail D.J.Cooke@lboro.ac.uk



2nd March 2020

Examination of FME accounts 2019

Dear Sir/Madam

At the AGM of Formal Methods Europe (FME) held on 3 April 2019 in London I was appointed as one of the financial examiners and was charged with scrutinizing the accounts for the financial years 2019 and 2020. Formerly a member of academic staff at Loughborough University, I am now a Visiting Fellow. I am also currently the Treasurer of BCS-FACS (the Formal Aspects of Computing Science specialist group of the British Computer Society), a group which I helped found and of which I have previously been Chairman and Secretary. I have been an 'ordinary' member of FME for several years. It has now become customary for FME and (BCS) FACS to hold joint meetings periodically.

I see no point in repeating the actual figures from the bank accounts and the cashbook. I hope it will suffice to say that all seems to be in order and that all the entries I inspected tally.

We benefited from unexpected surpluses and lower expenses than projected. Hence, overall we are currently in a good financial position. But the global financial outlook is uncertain and such beneficial outcomes (surpluses etc.) cannot be relied upon or expected in future years.

As of 15 February, 2020 no proposed budget for the following financial year was available and hence I cannot comment on it. However, I presume that there will be a core group of society officials and conference organizers overseeing events in the 2020 calendar – which I believe will be very similar to previous years. Providing that the same degree of care and due diligence is taken in the planning and funding of these events FME finances should be sufficient to support a reasonable programme of events.

In summary, I am happy to support the treasurers accounts for presentation at the FME AGM in April 2020 and look forward to seeing the budget for next year.

Yours faithfully


Dr John Cooke



POLITECNICO
MILANO 1863

Formal Methods Europe
Attn. Nico Plat

**DIPARTIMENTO DI
MECCANICA**

Il prof. Matteo G. Rossi

Milano, March 23rd, 2020

Dear members of the FME Board,
Dear FME members,

I have completed my review of the financial records of Formal Methods Europe for the year 2020, provided to me by the FME treasurer, Nico Plat.

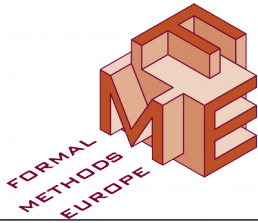
I have found them to be in good order, and I found no discrepancies between the financial report, the list of transactions reported in the worksheet compiled by the treasurer, and the bank statements.

I have also checked the report provided as part of the documentation, and I have found no problems in it, so I advise the AGM to agree with it.

I am glad to remark that, in the end, there was some surplus from the organization of FM18, despite the initial forecasts. This strengthens the position of the association going forward, seeing as, as far as I understand, surpluses from the organization of the FM symposium is the only source of income for the association.

Sincerely,

Matteo Rossi
Associate Professor
Politecnico di Milano
matteo.rossi@polimi.it
Tel: +39 02 2399 3561



Priorities

- Success of FM 2021 and FormaliSE 2020
- Start plans for FM 2022

Symposia

The main focus is the successful running of FM2021 and FormaliSE 2020, and planning of FM 2022. We have organized a consultation of the community and will consider how to take their views into account.

Responsible: Stefania Gnesi

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. However, we will review this in the light of performance, and if the current reserves warrant it, invite special initiatives if appropriate.

Responsible: Nico Plat

External relations

We will continue our cooperation with BCS-FACS and FMICS. We will continue to support and encourage initiatives including the FormaliSE conference at ICSE.

Responsible: Ana Cavalcanti

Communications

We will continue to work with the Communications Committee to expand our means of interaction with the community. Besides the website, which will remain as the FME's primary medium for disseminating its activities, we will use Twitter, LinkedIn, and YouTube. We will also continue holding the FME meetings as webinars.

Responsible: Einar Johnsen

FME Fellowship and Lucas Prize

We will work with the Awards Committee to confer the third Lucas Award during FM2021. We will discuss also the format of the award ceremony.

Responsible: Ana Cavalcanti



Book reviews

We will continue to work with the Book Review Committee to establish a steady stream of publications.

Responsible: Matteo Rossi

Support for teaching

We will continue to work with the Teaching Committee to take forward ideas raised in the membership consultation to support teaching of formal methods. We will strive to support colleagues in various ways, especially young academics.

Responsible: Luigia Petri

Formal methods in industry

We will work with the Industry Committee to take forward ideas raised in the membership consultation to engage with industry to promote and support use of formal methods. The industry day will continue to be an important part of our agenda, but we will seek to support other activities, increasing the visibility of formal methods via sharing of information and organisation of events, for example.

Responsible: Klaus Havelund

Coordination of events

We will 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: Einar Johnsen

Report for FormaliSE 2020

FormaliSE 2020, the 8th International Conference on Formal Methods in Software Engineering. FormaliSE is co-located with ICSE (International Conference on Software Engineering) 2020 (<https://conf.researchr.org/home/icse-2020>).

FormaliSE received 39 high-quality submissions. Each submission went through a thorough reviewing process, with each paper receiving at least three reviews by experts in the field. Based on the reviews and intense discussions, the program committee decided to accept 14 papers. Consequently, the acceptance rate was around 36%.

The program features two keynotes and paper presentations. Dr. Shahar Maoz (Tel Aviv University, Israel) will give the keynote, titled “Synthesis Technologies for Reactive Systems Software Engineers,” and Dr. Corina Pasareanu (NASA, USA).

Due to the current situation the conference has been moved in October, as again part of ICSE.

General Co-Chair

Stefania Gnesi
ISTI-CNR, Italy

General Co-Chair

Nico Plat
Thanos, The Netherlands

Program Co-Chair

Kyungmin Bae
POSTECH, South Korea

Program Co-Chair

Domenico Bianculli
University of Luxembourg, Luxembourg

Social Media Chair

Srdan Krstic
ETH Zürich

Report on the activity of the FME Book Review Committee

April 2020

The Book Review Committee (BRC), which was established by the FME board at the AGM held in Eindhoven in April 2016, has the aim of providing the FM community at large with high-quality reviews of books that are of interest for the community. Reviews should highlight the strengths and weaknesses of each book, to help researchers, students, and professionals in the FM domain in their searches for reference texts in their areas of interest.

The members of the BRC are the following:

- Wan Fokkink (Vrije Universiteit Amsterdam, NL)
- Einar Broch Johnsen (University of Oslo, NO)
- Constance Heitmeyer (Naval Research Laboratory, US)
- Peter Gorm Larsen (Aarhus University, DK)
- Annabelle McIver (Macquarie University, AUS)
- Matteo Rossi (Politecnico di Milano, IT, chair)

We recap here the ground rules and procedures for the production of reviews.

Reviews will be managed by BRC members, and they could be performed by BRC members themselves, or by external people contacted by BRC members. Normally, the committee does not accept unsolicited reviews; however, it will be glad to consider suggestions for books to be reviewed.

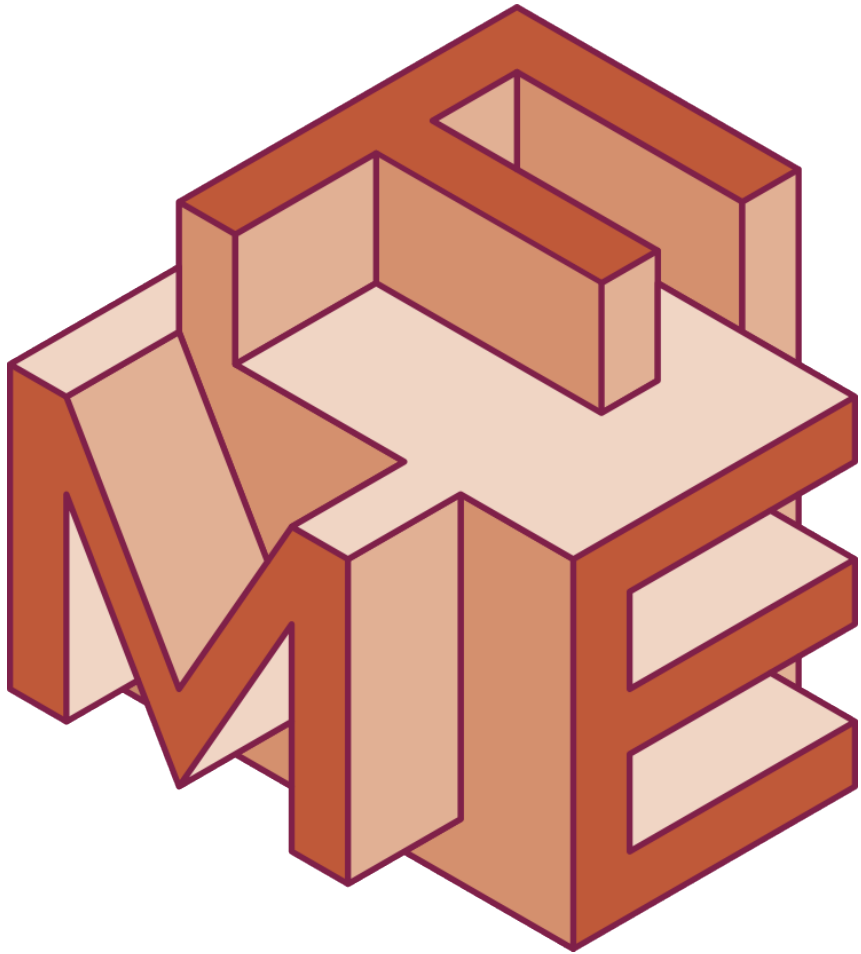
The books to be reviewed should be of interest for the FM community, and they should be of reasonably recent publication (where “recent” can be a flexible concept, although indicatively the suggestion is to consider books that are not older than 4-5 years).

Reviews will not be anonymous. They will be published on the FME website. Reviews will also be referred for possible publication (possibly in revised form) in the Formal Aspects of Computing journal, but the final decision in this case rests with the editor in chief of the journal (who has appointed Dominique Mery as curator of reviews for the journal).

The committee meets regularly (every month and a half/two months) through conference calls to monitor the status of the activities of the committee.

Concerning the ongoing reviews, one review is currently being evaluated by the BRC. Another review is expected this month, and 2 other reviews are expected in the next 2-3 months.

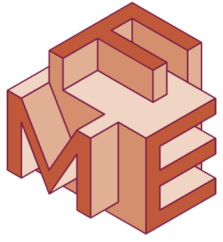
The committee has issued a “call for reviewers”, to which a few people have responded. The committee will contact some of these potential reviewers to gauge their availability in reviewing some books that the committee has identified as of interest for the community.



FME Teaching Committee *status report*

Luigia Petre

Åbo Akademi University, Turku, Finland

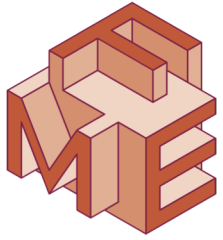


In 2019

FMTea 2019



- Three highlights
 - FMTea tutorial and workshop on FM teaching, Porto, FM week, 7.10.2019
 - Great success
 - 45 people registered
 - 22 papers submitted, 14 selected for publication, 3 posters
 - Invited speaker: Carroll Morgan
 - Tutorial speakers: Tony Hoare, Felix Freiberger, Bas Luttik
 - Workshop papers: shortly presented, then discussed in panels
 - COST action application ongoing
 - Network of FM researchers to support sustainable teaching
 - New webpages
 - <https://fme-teaching.github.io>



In 2020

FMTea 2019



- **Teaching Committee Meeting on Skype, 4.3.2020**
- **Present:** Klaus, Claudio, Rustan, Leila, Catherine, Graeme, Brijesh, Pierluigi, Luigia
- **On the agenda:**
 - *FMTea workshop*
 - *Overview*
 - *What went well and what did not*
 - *Next edition?*
 - *COST Action application (deadline April 29) → Oct 2020*
 - *Courses in the database*
 - *Courses database flyer for Formalise conf*
 - *Case studies*
 - *BoK*



FM19 Porto week: great!

FME Communications Committee – Report 2019

FME established a Communications Committee in October 2018. The aim of the Communications Committee is to support the dissemination of material about formal methods as well as the activities of FME. The committee has the following members:

- [Marcello Bersani](#), Politecnico di Milano, Italy.
Role: Marcello will liaise with the Awards Committee, the Book Review Committee, and the Industry Committee.
- [Carlo A. Furia](#), Università della Svizzera italiana, Switzerland.
Role: Carlo will work on the communications strategy and guidelines for conferences and liaise with the member of the board in charge of conferences.
- [Einar Broch Johnsen](#), University of Oslo, Norway.
Role: Einar chairs the Communications Committee, maintains the FME website, Twitter account, and LinkedIn group. He will work on an overall policy document on communications.
- [Claudio Menghi](#), University of Luxembourg.
Role: Claudio will liaise with the Teaching Committee. Claudio has also developed a questionnaire to collect feedback from FM conferences.
- [Pedro Ribeiro](#), University of York, UK.
Role: Pedro is in charge of communications for FME business meetings. He has investigated webinar platforms, leading to the first online channel for participation at the AGM 2019. Pedro is also in charge of FME's YouTube channel.

Actions

Action 18/1: FME website. Einar Broch Johnsen to maintain the FME website. *Running.*

Action 18/2: Twitter and LinkedIn accounts. Einar Broch Johnsen to maintain social media accounts for FME. *Running.*

Action 18/3: Social media from FM events. Carlo A. Furia to organize a social media presence for FM events. *Running.*

Action 18/4: Communication strategy for conferences. Carlo A. Furia to develop a communication strategy for conferences (FM and FormaliSE). *Running.*

Action 18/5: Claudio Menghi to liaise with the Teaching Committee. *Running.*

Action 18/6: Marcello Bersani to liaise with the Book Review Committee. *Running.*

Action 18/7: Marcello Bersani to liaise with the Awards Committee. *Running.*

Action 18/8: Pedro Ribeiro to organize publicity for FME business meetings. *Running.*

Action 18/9: Pedro Ribeiro to investigate platforms for webinars. *Done.*

Action 18/10: Pedro Ribeiro to establish a YouTube channel for FME. *Done.*

Action 18/11: Pedro Ribeiro to plan video material from FM2019. *Done.*

Action 19/1: Einar Broch Johnsen to establish a policy document for communication.

Running.

Action 19/2: Marcello Bersani to liaise with the Industry Committee. *Running.*

Action 19/3: Claudio Menghi to make a questionnaire for feedback from FM 2018. *Done.*

Action 19/5: Claudio Menghi to make a questionnaire for FormaliSE 2019. *Done.*

Action 19/6: Pedro Ribeiro to prepare a video of FormaliSE 2019 keynote. *Done.*

Action 19/7: Carlo A. Furia to contact DS organizers at FM 2019 about communication support. *Done.*

Action 19/8: Pedro Ribeiro to contact AGM organizers about the announcement of AGM. *Done.*

Action 19/9: Claudio Menghi to prepare and disseminate a questionnaire for FM 2019. *Done.*

Report from the Industry Committee

Written by Klaus Havelund (chair)

The aim of the committee is to support the infusion of formal methods into industry, as well as obtain feedback from industry as to the usability of various methods in practice.

Committee

The committee consists of the following people:

[Nikolaj Bjorner](#), Microsoft Research, USA
[Jonathan Bowen](#), London South Bank University, UK
[Alessandro Cimatti](#), FBK Trento, Italy
[Rance Cleaveland](#), Maryland University, USA
[Jan Friso Groote](#), Eindhoven University, The Netherlands
[John Hatcliff](#), Kansas State University, USA
[Klaus Havelund](#), Jet Propulsion Laboratory/NASA, USA (**chair**)
[Gerwin Klein](#), University of NewSouth Wales, Australia
[Thierry Lecompte](#), ClearSy, France
[Colin O'Halloran](#), D-RisQ Ltd., UK
[Jan Peleska](#), Bremen University, Germany
[Shaz Qadeer](#), Facebook, USA
[Cristina Seceleanu](#), Malardalen University, Sweden
[Markus Voelter](#), Volter Consulting, Germany

Website

The industry subpage on the FME website is: <http://www.fmeurope.org/industry>.
That website points to the industry specific website: <https://fme-industry.github.io>.
The website is programmed using the static website generator Hugo (<https://gohugo.io>).

Past Actions

1. The list of **formal methods tools** has been augmented with some new tools.
2. The committee had a **tele conference** on March 25, 2020, in which future actions were discussed. The committee agreed on the actions listed below (Future Actions).

Future Actions

1. Improve the list of **formal methods tools** with focus on mature tools, preferably used by others than the developers, and preferably with use in industry. We will start by defining 5-7 criteria for which tools to include.

2. Create list of **applications of formal methods** that demonstrate feasibility. These will be sorted by domain. The teaching committee is collecting 'case studies'. The difference would be our focus on real applications whereas the case studies maintained by the teaching community could focus on the teaching aspect (perhaps smaller case studies, well explained). However, there is a grey zone here. This will be explored as we move forward in collaboration between the two committees.

3. Create list of **industrial formal methods users**.

4. Create list of **formal methods companies** offering formal methods tools or consulting in formal methods.

5. Reconsider the design of the **industry website**, perhaps to use the same template as the teaching website.
