



**Formal Methods Europe
Minutes of the 65th meeting (AGM)
Held at the Congress Center Gothia Towers, Gothenburg,
Sweden
2 June 2018
www.fmeurope.org**

Present at the meeting were:

FME members:

- Simon Bludze [INRIA Lille]
- Ana Cavalcanti (Chair, by Skype) [U. York]
- Lars-Henrik Eriksson (Secretary) [Uppsala U.]
- Mohammed Foughali [LAAS-CNRS/U. Toulouse]
- Carlo A. Furia [USI Lugano]
- Stefania Gnesi [CNR-ISTI]
- Giovanni Liva [Alpen-Adria U. Klagenfurt]
- Dino Mandrioli [Politecnico Milano]
- Tiziana Margaria [U. Limerick]
- Casper Thule Mathiasen [Aarhus U.]
- Claudio Menghi [Chalmers/U. Gothenburg]
- Nico Plat [Thanos]
- Matteo Rossi [Politecnico di Milano]
- Gerardo Schneider [U. Gothenburg]

Non-members:

- Wolfgang Ahrendt [Chalmers U. of Technology]
- Adina Aniculaesei [TU Clausthal]
- Claudio Mandrioli [Lund U.]

Apologies had been received from: Maurice ter Beek, Bruce Watson, Marcel Verhoef, Alessandro Fantechi and Erik de Vink.

1 Welcome and agree upon agenda

As Ana Cavalcanti participated on a Skype link, Stefania Gnesi chaired the meeting. She 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 Turin meeting were approved.

Action 61/6: Erik de Vink to investigate the consequences of offering FME members a discount on the FM'18 registration fee.

Done. A discount is not possible as the registration fees are for parts of FLoC, not for individual conferences.

New action 65/1: Erik de Vink to investigate the consequences of offering FME members a discount on the FM'19 registration fee.

Action 61/7: Ana Cavalcanti and Lars-Henrik Eriksson to contact members of the SE community about FME through FormaliSE.

Done. This has resulted in about 30 new FME members.

Action 62/1: The Board to revise the Symposium Guidelines considering the recommendations given by the FM'16 Chairs.

Done.

Action 62/4: Lars-Henrik Eriksson to ensure that the Book Review Committee members are or become FME members.

Done.

Action 63/2: Lars-Henrik Eriksson and Einar Broch Johnsen to arrange an online membership application system when the FME web site moves from Graz to Oslo.

In progress. Action continues

Action 63/3: Ana Cavalcanti and Lars-Henrik Eriksson to produce a report on the membership consultation (on hold until 2018).

In progress. Action continues

Action 63/4: Ana Cavalcanti to identify members interested in supporting the teaching and industry-related activities of FME.

In progress. Done for teaching. Action continues.

4 Annual report for 2017

Lars-Henrik Eriksson presented the annual report of the board for 2017 (attached to the minutes). The meeting approved the report.

5 Financial report for 2017

In the treasurer's absence, Lars-Henrik Eriksson presented the financial report for 2017. The meeting approved the report with minor editorial changes. The corrected version is attached to the minutes.

6 Report by the Independent Financial Examiners

The independent financial examiners (Nico Plat and Jonathan Bowen) had individually checked the FME accounts. These reports are attached to the minutes. In response to Jonathan Bowen's comment about the interest rate, the board said that they wanted the FME funds to be immediately available and in the present economical situation it is difficult to find accounts with better interest rates without penalties for withdrawal or similar restrictions. The meeting discharged the Treasurer from his responsibilities during this period. Stefania Gnesi thanked the Treasurer and the Independent Financial Examiners for their work.

7 Elections

a) One board member, to serve until the 2021 AGM. In accordance with FME statutes, Lars-Henrik Eriksson stepped down as Board member. Lars-Henrik had indicated his willingness to serve a further term. There were no other candidates to take his position. Therefore, Lars-Henrik was reelected unopposed.

b) One Independent Financial Examiner for 2018 and 2019. According to FME statutes, Nico Plat cannot serve another term as independent financial examiner. The meeting expressed its thanks for his service. Matteo Rossi accepted taking this role. He was elected unopposed.

8 Plan for 2018

Stefania Gnesi presented the plans by the Board for 2018 (attached to the minutes). The meeting approved the plans. Discussion about the Board's suggestion to hold some Business Meetings online. Physical and online meetings will likely attract different member groups so both are needed.

9 Budget for 2018, including sponsorships

In the treasurer's absence, Lars-Henrik Eriksson presented the budget for 2018. The meeting approved the budget with minor editorial changes. The corrected version is attached to the minutes.

10 FME web site/Electronic publications

In Einar Broch Johnsen's absence, Lars-Henrik Eriksson reported on the publication activities and plans (attached to the minutes).

11 Symposia

a) Report on FM'18

Stefania Gnesi reported on the progress of FM'18 — this year a part of FLoC. 34 out of 108 submissions were accepted. The number of submissions is lower than in previous years. This is most likely an effect of competition with other FLoC conferences.

b) Status report on FM'19

Stefania Gnesi presented a progress report on FM'19 (attached to the minutes).

12 FormaliSE

Nico Plat and Stefania Gnesi reported on the FormaliSE 2018 conference. A written report is attached to the minutes.

13 Book Review Committee report

Matteo Rossi presented a report from the Book Review Committee (attached to the minutes).

14 Teaching committee report

Lars-Henrik Eriksson presented a report from the Teaching Committee (attached to the minutes). All members present were asked to assist the Teaching Committee by submitting information about their Formal Methods courses according to the instructions in the report.

15 Date and place of next meeting

The next meeting will be held during the coming FM symposium in Oxford, on Monday 16, 2018, during the symposium lunch break.

16 Other Business

There was no other business.

Summary of open actions

Action 63/2: Lars-Henrik Eriksson and Einar Broch Johnsen to arrange an online membership application system when the FME web site moves from Graz to Oslo.

Action 63/3: Ana Cavalcanti and Lars-Henrik Eriksson to produce a report on the membership consultation (on hold until 2018).

Action 63/4: Ana Cavalcanti to identify members interested in supporting the teaching and industry-related activities of FME.

Action 65/1: Erik de Vink to investigate the consequences of offering FME members a discount on the FM'19 registration fee.

Formal Methods Europe: report on activities in 2017

The FME Board May 2018

This report is a brief account of the association's activities between 1 January 2017 and 31 December 2017.

1. Board

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

2. Membership

On 31 December 2017 the association had 271 members in total, an increase of 26 from the previous year.

195 members (72%) come from academic institutions, 62 (23%) from commercial institutions and 14 members (5%) have no affiliation or come from other institutions. Roughly 72% 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.

113 of the members have a suspended status because of unknown contact details. (They did not reply to an address update request in 2016.)

3. Symposia/Conferences

FM'18

FM'18 will be organised as part of FLoC'18 in Oxford. The symposium will be held in July. Ana Cavalcanti is the FM representative on the FLoC Steering Committee and Erik de Vink is the FM representative on the FLoC Organising Committee. The PC chairs are Bill Roscoe (Oxford University) and Jan Peleska (University of Bremen). The I-day chairs are Klaus Havelund (JPL), Jan Peleska (University of Bremen) and Ralf Pinger (Siemens).

FM'19

FM'19 will be organised as a World Congress and held in Porto, Portugal, the week starting October 7, 2019. The general chair is José Nuno Oliveira (University of Minho) and the PC chairs are Maurice ter Beek (CNR-ISTI) and Annabelle McIver (Macquarie University).

FormaliSE

Starting in 2018, the annual FormaliSE workshop will become an official FME conference.

4. Publications

The FME website, hosted by TU Graz and maintained by Einar Broch Johnsen, and the FME mailing lists, hosted by Uppsala University and maintained by Lars-Henrik Eriksson, continue to be the main means of reporting information about FME.

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 Formal Methods subseries of Springer LNCS, created on the initiative of FME, is now well established with proceedings of major conferences in the area.

5. Grants and sponsorships

During 2017, FME has sponsored the FormaliSE 2017 workshop. Refer to the Financial Report for details.

6. Special Interest Groups

FME currently has no Special Interest Groups.

7. Standing Committees

FME currently has two standing committees: The Book Review Committee (contact: Matteo Rossi) and the Awards Committee (contact: Jim Woodcock).

During 2017 the board was active in setting up a Teaching Committee and was planning for an Industry Committee.

8. Industry-Research Collaboration

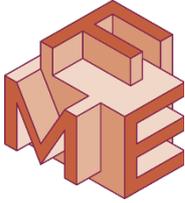
FME has a Memorandum of Understanding with FMICS to collaborate in holding an annual joint industry-focussed event.

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 2017. The AGM was held in London (United Kingdom) on May 4. 8 members participated in the meeting. A business meeting was held in Turin (Italy) on 20 September during the iFM 2017 Conference. 17 members and 7 non-members participated in that meeting.

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



Financial Report 2017 Budget 2018

Report to the FME membership
May 2018
Formal Methods Europe

Prepared by Erik de Vink (Treasurer)

Introduction

This document provides:

- A look at the past: the 2017 budget as approved at the 63rd FME meeting, AGM 2017, held on 4 May 2017 at the British Computer Society, London UK (minutes available from <http://www.fmeurope.org>).
- A look at the financial performance of the association in the fiscal year 2017.
- And a look into the future: the proposed 2018 budget.

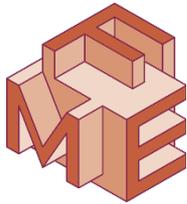
Although income declined the past years, the association remains financially solid. We have sufficient means to cover the potential financial risks involved in organizing our future symposia. However, as interest rates are nihil the possibility to limitedly support the formal methods community at large by sponsoring additional events has to be reconsidered.

For 2018 the treasurer proposes to continue the support for FormaliSE, now positioned at the 6th International Conference on Formal Methods in Software Engineering and part of ICSE 2018 in Gothenburg. However, for the years to come the board and the membership of the association need to take decisions, to maintain balance between income and spending in the long run.

The bank statements and cashbook of our association for 2017 are reviewed by the independent financial examiners: Jonathan Bowen and Nico Plat (FME members). In line with the reports of the external examiners the treasurer asks for discharge of his duties for the financial year 2017.

Eindhoven, June 2018

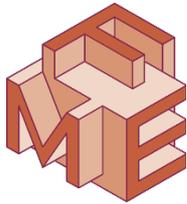
Erik de Vink
Treasurer



Approved Budget 2017

Below the budget for FME as it was approved by the membership at the Annual General Meeting, which was held at the British Computer Society, London, 4 May 2017 (see minutes of the 63rd meeting, available on-line at <http://www.fmeurope.org>).

FME BUDGET FISCAL YEAR 2017					
no	description	surplus & deficit		balance sheet	
		debit	credit	debit	credit
01	Nett assets regular account (31-12-2016)			10.83	
02	Nett assets savings account (31-12-2016)			57,313.27	
03	Total assets end 2017				56,424.10
	<i>Administrative items</i>				
04	Interest received on savings account		100.00		
05	Banking and organisational cost	200.00			
	<i>Operational items</i>				
06	Surplus FM 2016 Limassol		4,600.00		
07	ICSE/FormaliSE 2017	2,500.00			
08	Sponsoring budget 2017	0.00			
09	Joint BCS-FACS / FME seminar	500.00			
10	Travel costs FME board	2,400.00			
11	<i>Subtotals</i>	5,600.00	4,700.00	57,324.10	56,424.10
12	Net deficit	900.00		900.00	
13	<i>Totals</i>	4,700.00	4,700.00	56,424.10	56,424.10

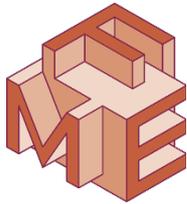


Financial Report Fiscal Year 2017

Below the budget for FME as it was approved by the membership at the Annual General Meeting, which was held at British Computer Society, London, on May 4, 2017 (see minutes of the 63rd meeting, available on-line at <http://www.fmeurope.org>).

The surplus & deficit and balance sheet for the fiscal year 2017 is as follows.

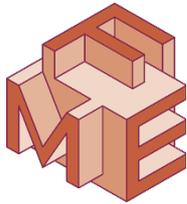
FME SURPLUS & DEFICIT AND BALANCE SHEET FISCAL YEAR 2017					
no	description	profit & loss		balance sheet	
		debit	credit	debit	credit
01	Net assets regular account (31-12-2017)			1.00	
02	Net assets deposito account (31-12-2017)			57,754.52	
03	Total assets end 2016				57,324.10
	<i>Administrative items</i>				
04	Interest received on savings account		0.29		
05	Banking and organisational cost	197.39			
	<i>Operational items</i>				
06	Surplus FM 2016 Limassol		4,600.00		
07	ICSE/FormaliSE 2017	2,500.00			
08	Sponsoring budget 2017	0.00			
09	Joint BCS-FACS / FME seminar	273.34			
10	Travel costs FME board	1,198.14			
11	<i>Subtotals</i>	4,168.87	4,600.29	57,755.52	57,324.10
12	Net surplus	431.42			431.42
13	<i>Totals</i>	4,600.29	4,600.29	57,755.52	57,755.52



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

- Received interest, item (04), was dramatically low.
- Banking costs and other operational costs, item (05), were as projected. Other operational costs consisted of the registration costs of the internet domain name www.fmeurope.org.
- The books for FM 2016 in Limassol were closed on 16 February 2017 and showed the forecasted surplus (06).
- The FormaliSE workshop affiliated with the ICSE 2017 conference in Buenos Aires, requested by Nico Plat and Stefania Gnesi, was used for covering part of the organizing and travelling costs of invited speakers. See item (07).
- FME could not sponsor other events in 2017. See item (08).
- Support for the joint BCS-FACS/FME seminar 4 May 2017 in London, item (09), was slightly lower than foreseen.
- Travel cost, item (10), was only half of the budget, because of other travel support. The board held two physical meetings, viz. in London and Turin.
- The fiscal year 2017 was closed with a modest surplus of € 431.42, see item (11), with total assets of € 57,755.52, see item (12).

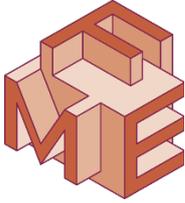
It is observed that the projected deficit of € 900 turned into a small surplus. The difference is almost completely explained by the travelling of the board which turned out to be € 1,200 less than calculated.



Proposed Budget Fiscal Year 2018

The total gross available assets of the association on 1 January 2018 are 57,755.52 Euro. This value is the starting point for the budget 2018, as shown below. The budget shows a deficit of 1.950 Euro, leading to total gross assets of 55,805.52 Euro by 31 December 2018.

FME BUDGET FISCAL YEAR 2018					
no	description	surplus & deficit		balance sheet	
		debit	credit	debit	credit
01	Nett assets regular account (31-12-2017)			1.00	
02	Nett assets savings account (31-12-2017)			57,754.52	
03	Total assets end 2018				55,805.52
	<i>Administrative items</i>				
04	Interest received on deposit account		0.00		
05	Banking and organisational cost	200.00			
	<i>Operational items</i>				
06	Surplus FM 2018 Oxford		2,000.00		
07	ICSE/FormaliSE 2018	1,250.00			
08	Joint BCS-FACS / FME seminar	500.00			
09	Travel costs FME board	2,000.00			
10	<i>Subtotals</i>	3,950.00	2,000.00	57,755.52	55,805.52
11	Net deficit	1,950.00		1,950.00	
12	<i>Totals</i>	2,000.00	2,000.00	55,805.52	55,805.52



A few remarks about this budget:

1. Interest (04) and banking cost (05) has comparable to 2017 levels.
2. The surplus for FM 2018 in Oxford (06) is estimated at 2000 Euro in the budget of 2018. In 2018 FM is one of the constituent conferences of FLoC 2018 and as such does not have control over the budget. Books for FLoC will be closed end 2018.
3. FME organizes the FormaliSE as a separate event at ICSE 2018 in Gothenburg. With ICSE being held in Europe, FME sponsoring is set to 1,250 Euro to cover travel expenses and organizational cost.
4. A joint seminar with BCF-FACS may be planned for December 2018 (08).
5. Travel costs for the board (09) to accommodate for the AGM 2018 in Gothenburg.

END OF REPORT

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Formal Methods Europe
Attn. Mr. Lars-Henrik Eriksson (Secretary)
CC: FME members

Rotterdam, 9 March 2018

Dear Mr. Eriksson,

This is to inform you that, on your request, I have checked the financial information regarding FME's accounts over the year 2017, which was sent to me by Mr. Erik de Vink on 14 February 2018.

I have checked the records and found no irregularities in them, I find them accurate and correct.

Therefore I advise the FME AGM, to be held on 2 June 2018, to accept the financial report presented.

Yours sincerely,
Thanos

Nico Plat



TO WHOM IT MAY CONCERN

31 March 2018

Dear Sir/Madam,

Financial examination for Formal Methods Europe (2017)

I write as financial examiner for Formal Methods Europe (FME) during the year 2017, as selected at the 2017 AGM of FME in London. With respect to my background, I am now an Emeritus Professor of Computing in the School of Engineering at London South Bank University, so not a financial expert. However, I do run my own UK company, Museophile Limited, with annual accounts returned to Companies House in the UK.

I have inspected the six PDF documents provided to me by FME. The cashbook records a small increase of €431.42 to €57,755.52 over the year. There are bank charges of €10.40 per month. The main income was €4,600 surplus for the FM 2016 conference. The main expenses are €2,500 sponsorship for the FormaliSE 2017 workshop and smaller amounts for travel and website costs. I have done spot checks against the actual bank account and savings account records; all that I viewed matched correctly.

The report reflects accurately the financial situation, with comments on costs incurred. A deficit of €900 was projected, but lower travel costs than expected resulted in the small surplus for the year. FME has good reserves for any unforeseen costs in any case. The report and cashbook note interest received on the “savings” account as only €0.29. This is extremely low on an amount of over €57,000, even in these low-interest times. I wonder if there is a better savings account that could be used for FME. This is set against $€10.40 \times 12 \text{ months} = €124.80$ annual charge for the main bank account. The report mentions a figure of €197.39 for “Banking and organisational cost”. This appears to include the €72.59 cost for the FME domain registration, although this was not immediately clear in the report. However, I could not find any errors in the cross-checks that I made for figures between the various documents.

Overall, I believe that the FME accounts are in order and well run. If you require any further information, please do contact me by email on jpbowen@gmail.com or phone/text on +44 (0)7765 152996.

Yours faithfully,

Prof. Jonathan P. Bowen



Priorities

- Success of FM 2018
- Success of FM 2019

Symposia

The main focus is the successful running of FM2018 and planning of FM 2019. We will be interested in the views of recent chairs, conference participants and FME members on how best to further strengthen the symposium's international reputation. In particular, input on plans for the Third World Congress in 2019 is very welcome.

Responsible: Stefania Gnesi

Membership

We will further develop and implement activities for achieving a sustainable (modestly increasing) level of membership. We will seek ways to make the association more useful to a wider portion of the formal methods community, and we will 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: Erik de Vink

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

Publications

We will continue to maintain the website as FME's primary medium for disseminating its activities to the general public. We also will work with the membership to create a committee to take forward ideas raised in the membership. We will consider other forms of communication with the community, advertising the activities of the society, of its members, and of the board. In particular, we will advertise the symposia, FormaliSE, and support the teaching and industry-outreach activities. We will also consider holding (some of) the FME meeting online.

Responsible: Einar Johnsen/Ana Cavalcanti



FME Fellowship and Lucas Prize

We will work with the Awards Committee to confer the second FME Fellowship during FM2018, another Fellowship and a Lucas Award during FM2019.

Responsible: Ana Cavalcanti

Book reviews

We will work with the Book Review Committee to start publishing the first book reviews already in 2017 and establish a steady stream of publications.

Responsible: Ana Cavalcanti/Matteo Rossi

Support for teaching

We will work with the newly formed 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: Ana Cavalcanti/Luigia Petri

Formal methods in industry

We will work with the membership to create a 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: Ana Cavalcanti

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 on FME's Publication Activity in 2017

Einar Broch Johnsen (Board Member)

31 May 2018

Web-Site. FME's website <http://www.fmeurope.org> is a Wordpress CMS hosted at Graz University of Technology and is maintained by Einar Broch Johnsen. Its purpose is to publish the ongoing activities of FME as an organisation. This includes the announcement of the FM symposia, the FME meetings, and events sponsored by FME. A popular page with upcoming Formal Methods conferences was established in 2014. The site currently comprises of 105 published posts and 14 static pages. In 2017, a total of 9 new posts and 2 new static pages were published.

Google analytics shows the following statistics for 2017: 7592 sessions (8,782 in 2016, minus 13%), 4,952 users (5,803 in 2016, minus 14%), 16,660 page views (18,215 in 2016, minus 8%), 2.19 average pages per session (2.07 in 2016, plus 6%), 1:35 minutes avg. session duration (1:20 in 2016, plus 19%).

The visits came from the following top ten countries: US, China, UK, France, Germany, Austria, Italy, India, the Netherlands, and Brazil. The top ten countries in terms of visitors are almost the same as in 2016, 2015 and 2014. Among these, the strongest increase in sessions came from the China (+137%) and Austria (+25%). UK (+53%) and the USA (+31%). The largest increase in new users was in China (+71%) and Brazil (+71%). The three most frequently visited pages, next to the homepage, were (1) Upcoming FM Conferences (3,339 page views), (2) Symposia overview (1,812 page views), and (3) FM2018 in Oxford (742 page views).

Attached is a Google Analytics summary report.

Upcoming Formal Methods Conferences. As a service to the members we maintain a page with a list of upcoming conferences in formal methods. Its main purpose is coordination among conference organisers. Therefore, we established contacts with the steering committees and actively poll them for conference dates before publication in Call for Papers. It is now the most popular page on our web-site.

LinkedIn Group. Since July 2010, FME has a presence on the social network LinkedIn. The discussion group is called Formal Methods Europe. Jonathan Bowen is its owner, John Fitzgerald, Bernhard Aichernig, Einar Broch Johnsen are the managers of the group. Everybody can read the group. Only members can write. It currently has 1,670 members (last year: 1,602 members).

Communications Committee. We are in the process of establishing a committee in charge of collecting and disseminating results and activities related to formal methods, targeting not only conferences and events organised by FME, but more generally summer schools, meetings, etc, as well as interesting books, papers, etc. For dissemination we plan to use not only the FME website, but also, e.g., Twitter and LinkedIn. If you are interested in participating in the communications committee, please contact Einar Broch Johnsen.

FM 2019 World Congress on Formal Methods (Porto, 7-11 October, 2019)

Update: May 2018

ANNOUNCEMENT

- Kick-off

The plan is to have FM'19 announced on the last day of FM'18, in Oxford (July 17th). The website will become live by then.

CHAIRS

- Programme chairs

Annabelle McIver (Macquarie U.) and Maurice ter Beek (CNR/Italy) have accepted the roles of PC co-chairs and are forming the PC. Springer have replied positively concerning the publication of the proceedings in LNCS.

- Industry chairs

Joe Kiniry (Galois) and Thierry Lecomte (ClearSy) are being contacted.

CO-LOCATED EVENTS

- Strategy

Because of the shorter (than usual) interval between FM'18 and FM'19, our main concern has been to do prospective work on attracting events to the FM Week'19 before any public announcement.

This was needed because co-locating is becoming the rule in conference planning and it is made quite in advance nowadays.

We didn't make any publicity because that would disturb FM'18. Right after FM'18 (mid July), the usual open call for workshops, tutorials etc will be issued officially.

I report on the outcome of this prospective work below.

- Conferences

The SCs of the following conferences have already accepted our invitation to co-locate with FM'19:

- **CRV**: *Conference on Runtime Verification*. Contact: Klaus Havelund. PC-chair: TBA.
- **MPC**: *Mathematics of Program Construction*. Contact: Graham Hutton. PC-chair: Graham Hutton.
- **TAP**: *Tests and Proofs*. Contact: Catherine Dubois. PC-chair: TBA.
- **VECoS**: *Verification and Evaluation of Computer and Communication Systems*. Contact: Ali Mili and Kamel Barkaoui. PC-chair: TBA.

Possible but not yet confirmed: **FMICS**: *Formal Methods for Industrial Critical Systems* (contact: Tiziana Margaria); **QFM**: *Quantitative Formal Methods: Theory and Applications* (contact: Carroll Morgan); **SAT**: *Theory and Applications of Satisfiability Testing* (contacted: J.M. Silva); **UTP**: *UTP symposium* (contact: Jim Woodcock).

- Workshops

The SCs of the following workshops have already accepted to co-locate with FM'19:

 - **F-IDE**: *Formal Integrated Development Environment*. Contact: Paolo Masci. PC-chair: TBA.
 - **FMIS**: *Formal Methods for Interactive Systems*. Contact: José Campos. PC-chair: TBA.
 - **Overture**: *Overture Workshop*. Contact: Marcel Verhoef. PC-chair: TBA.
 - **RW**: *Refinement Workshop*. Contact: Eerke Boiten. PC-chair: TBA.

- Pending

The SCs of the following conferences have been contacted but haven't replied yet:

 - **IJCAR**: *International Joint Conference on Automated Reasoning* (contacted: Alberto Griggio)
 - **GandALF**: *Games, Automata, Logics, and Formal Verification* (contacted: Luca Aceto)
 - **VMCAI**: *Verification, Model Checking, and Abstract Interpretation* (contacted: Thomas W. Reps)
 - **SAS**: *Static Analysis Symposium* (contacted: Thomas Jensen, Fritz Henglein)
 - **SPIN**: *Symposium on Model Checking of Software* (contacted: Gerard Holzmann)
 - **AVOCS**: *Automatic Verification of Critical Systems* (contacted: Markus Roggenbach)

- Declined

The following conferences could not be co-located with FM'19, the main reasons being dates out-of-sync or event already scheduled for another venue:

 - **ABZ**: *ABZ Conference ASM, Alloy, B, TLA, VDM, Z*
 - **DiscoTec**: *Distributed Computing Techniques*
 - **FSCD**: *Formal Structures for Computation and Deduction*
 - **ICTAC**: *Colloquium on Theoretical Aspects of Computing*
 - **QPL**: *Quantum Physics and Logic*
 - **RAMiCS**: *Relational and Algebraic Methods in Computer Science*
 - **RSSRail**: *Reliability, Safety, and Security of Railway Systems*

Univ. of Minho, Braga, May 2018



(J.N. Oliveira)

FormaliSE 2018

Report by Ridhi Jain (IIIT Delhi, India)

The sixth Conference on Formal Methods in Software Engineering, FormaliSE 2018, was organized as a one-day event in Gothenburg, Sweden on 2nd June. The event was attended by roughly 50 researchers, including people from industry as well as academia in the area of Formal Verification from around the globe.

The session began with a welcome to the FormaliSE community by PC co-chairs Paola Spoletini and Patrizio Pelliccione, followed by a keynote given by Mariëlle Stoelinga (Radboud University Nijmegen & University of Twente, the Netherlands).

The event was further divided into five sessions.

Session 1: Formal Methods for Autonomous Systems

The session chair, Claudio Menghi, Postdoc at University of Göteborg guided the audience towards the only talk of the session on Formal Verification of Complex Robotic Systems on Resource-Constrained Platforms. The session was about verifying the behavioral and timed properties of robotic systems.

Session 2: Runtime Verification

The session was chaired by Domenico Bianculli from Software Verification and Validation Lab, University of Luxembourg. It had three presentations aligned with the topic Runtime Verification. The first one was an overview of Specification Patterns for Verification of Parametric Traces and extending them. The second was about Runtime Verification of Hyperproperties for Deterministic Programs and the last presentation was on Testing Meets Static and Runtime Verification.

Session 3: Student presentations

The third session, chaired by Nico Plat was a bit different from the others. Four students from different Universities from around the world presented their works in “Pecha Kucha” format.

Session 4: Program Verification and Application

The session chair, Wolfgang Ahrendt, Associate Professor at Chalmers University of Technology drove the session. The session consisted three presentations on Program Verification and Application. The first presentation was about translating CIL to Java-bytecode to leverage the existing mature and sound Java-bytecode analyzers on CIL. This paper won the FormaliSE 2018 “Distinguished Paper Award”. The second presentation was about Modeling Time for Automatic Error Detection in Java Programs and the last talk of the session was about Domain-specific Design of Patient Classification in Cancer-related Cachexia Research.

Session 5: Formal Methods for Autonomous Systems

The last session of the event was chaired by Michael Whalen, Director of the University of Minnesota Software Engineering Center. It had three presentations on the topic Formal Methods for Autonomous Systems. The first one was on Self-Adaptive Automata on autonomous vehicles for searching. The second talk was about Formal Verification of an Autonomous Wheel Loader

by Model Checking which provides the timed automata description of the vehicle's control system, including the abstracted path planning and collision avoidance algorithms. The last talk of the session was about Formal verification of automotive embedded software that proposes an approach introducing formal methods into the development of automotive embedded software.

Closing Remarks

After the successful completion of event, the General Chairs, Stefania Gnesi and Nico Plat expressed their gratitude to all the participants, session chairs and presenters. Finally, the event ended with leaving the audience motivated to produce high quality research in the field of Formal Methods.

More information

For more information on the event see www.formalise.org.

Report on the activity of the FME Book Review Committee

June 2018

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).

A review has been produced for the *Concrete Semantics* book (by T. Nipkow, and G. Klein, published by Springer). The review is slated to appear in the *Formal Aspects of Computing* journal (<https://doi.org/10.1007/s00165-018-0454-6>).

Other books have been selected for review, but the process of producing the reviews is still ongoing.

- *Modeling and Analysis of Communicating Systems* (J. F. Groote and M. R. Mousavi), MIT Press
- *Logic in Games* (J. van Benthem), MIT Press
- *Principles of Cyber-Physical Systems* (R. Alur), MIT Press
- *Reasoning about Uncertainty*, Second Edition (J. Y. Halpern), MIT Press

The committee has established contacts with both Springer and MIT Press representatives to provide complimentary copies of books to be reviewed to the selected reviewers. Indeed, MIT press has kindly sent the requested books to reviewers.

The main difficulty faced by the committee is the production of the reviews themselves. Unfortunately, producing a review requires a certain commitment by the reviewer, which cannot always be guaranteed. For this reason, the rate of production of reviews is still very low.

FME Teaching Committee, May 2018

1. The FME Teaching Committee was setup in the first half of the 2017–18 academic year. The main task of the committee is to promote a worldwide improvement in learning formal methods, mainly by teaching but also via self-learning. The committee members are:

- Rustan Leino, Amazon Web Services, US
- Leila Ribeiro, Federal University of Rio Grande do Sul, Brazil
- Alexandra Mendez, Teesside University, UK
- Joao Ferreira, Teesside University, UK
- Catherine Dubois, ENSIIE, France
- Dino Mandrioli, Politecnico di Milano, Italy
- Luigia Petre (chair), Åbo Akademi University, Finland
- Bernd Fisher, Stellenbosch University, South Africa
- Kenji Taguchi, CAV, Japan
- Graeme Smith, University of Queensland, Australia

2. We have had two meetings in 2018, on February 23 and on May 23, respectively. The idea is to meet approximately four times a year, via Skype, with the entire committee, and work online in the meantime between the committee members.

3. We have started collected Formal Methods Courses from Australia and New Zealand. We have decided to set up a repository in GitHub so that everyone interested will have the opportunity to check and add courses. The old database of courses at <http://www4.di.uminho.pt/FME-SoE/resources.html> will be incorporated into our repository. We also prepare a course-query format to be used in handouts at Formal Methods conferences (and otherwise), so that we reach out to as many people as we can.

4. We have progressed on the topic of Formal Methods Body of Knowledge (FMBoK), by identifying classifications to be used for this. The existing work at <http://formalmethods.wikia.com/wiki/FMBoK> will be incorporated in this project.

5. We agreed to set up repositories for Formal Methods case studies (simple and more complex), Formal Methods exam questions and Formal Methods teaching methods, in addition to the Formal Methods courses repository.

6. We plan to have the FM course repository available at the end of 2018, as well as at least preliminary versions available for the other repositories by the same timeline. The FMBoK is planned to be available in the first half of 2019.

7. We plan to have a preliminary version of the course repository available this summer (i.e., in June 2018), so we plan to ask for everyone involved in the Formal Methods field for their help with the course repo, and maybe other repos as well. We would be interested in the following information regarding FM courses:

- the name of the course
- the university hosting the course

- the contact person
- the webpage, or a link to a syllabus
- the main taught concepts (keywords of the course)
- the tools promoted/used in teaching the concepts

I have created a form for this, in Google doc/form:

<https://docs.google.com/forms/d/e/1FAIpQLSdHbVSHVHJaKsGQm9ykX5s8EaMXad8tnVE-bMBnqKS8vh9ljQ/viewform>

Luigia Petre