

IFIP General Assembly (Tele Conference ZOOM) September 2021



INTERNATIONAL FEDERATION FOR INFORMATION PROCESSING

**MINUTES OF THE
Virtual General Assembly Meeting
September 21st / 22nd, 2021**

ZOOM

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Attendance List

Member Society Representatives (29 representatives)

Austria	E Neuhold	Australia	Y Ramasundara
Brazil	R Macedo	Bulgaria	I Georgiev
Canada	M Havey	China	X Ge
Croatia	M Frkovic	Czech Rep	J Pokorny
Denmark	T Clemmensen	France	J Sakarovitch
Germany	Kai Rannenberg	Ireland	D Brady (partly)
Italy	P Schgör	Japan	H Aida
Korea	J-In Kim	Netherlands	W Bronsgeest
New Zealand	Liz Eastwood	Norway	S Røsvik
Poland	J Nawrocki	Serbia	D Becejski-Vujaklija
Slovakia	B Rován	Slovenia	N Schlamberger
South Africa	J Phahlamohlaka	Sri Lanka	A Athukorale
Sweden	J Gulliksen	Switzerland	R Morel
U.A.E.	M Hassan	UK	A Irons
Zimbabwe	L Gudza		

International Members at Large

ACM	G van der Veer	CLEI	J Aguilar (partly)
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Ex officio Members (7 were present)

M Hinchey	IFIP President	M Bramer	Honorary Secretary
A Wong	Vice President	G Marin-Raventos	Vice President
Y Murayama	Vice President	M de Roche	Councillor
A Yoshi	InterYIT		

TC Chairs (13 TCs were represented)

TC 1	L Barbosa	TC 2	I Schaefer
TC 3	D Passey	TC 5	T Czachorski
TC 6	B Stiller	TC 7	L Stettner
TC 8	I Ramos	TC 9	D Kreps
TC10	A Rettberg	TC11	S Furnell
TC12	E Mercier-Laurent	TC13	P Palanque
TC14	R Malaka		

Affiliate Members

CEPIS	D Brady (partly)
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Honorary Members

L Strous

Observers

T Kinoshita	Secretary General IPSJ	H Wang	CIE (China)
J Wang	CIE (China)		

Apologies

Bart de Decker	Belgium
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IFIP Secretariat

E Dundler	IFIP General Secretary
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1 Call Meeting to Order

The President welcomed all participants to the virtual meeting. He welcomed especially all members who attended the General Assembly first time, Mr Georgiev from Bulgaria, Mr Clemmensen from Denmark, Ms Becejski-Vujaklija from Serbia, Mr Rován from Slovakia, Mr Phahlamohlaka as new representative from South Africa, Mr Irons as new representative from UK and the observers from Japan and China.

The President said that this is due to the restrictions caused by the COVID19 pandemic. It is the second time of a General Assembly has been held virtually and apologized for any inconveniences and the tight time frame.

The President announced that all elections will be held by the secret voting system NemoVote for the first time and asked all General Assembly members to take part in a test vote to become familiar with the system. The test voting has been performed and questions have been answered and problems solved. **The President** informed General Assembly that all eligible voters, who have not the opportunity to get in time to the voting system, can send their votes per email to the IFIP General Secretary and their vote will be added to the votes out of NemoVote.

2 Attendance and apologies

The Honorary Secretary, **Mr Bramer** announced the GA attendance, proxies and apologies (please refer to the attendance list). 29 Full Members, 2 International Member at Large, 13 TC representatives and 7 ex officio members with voting rights were present.

Mr Bramer stated that the attendance of members with voting rights exceeded the quorum and General Assembly could proceed with its work.

3 Business issues

3.1 Approval of Agenda

Mr Hinchey asked the Board for approval of the agenda for the Board meeting.

General Assembly **APPROVED** the agenda unanimously.

3.2 President's Report

Mr Hinchey presented the President's report:

Covid-19

Regrettably, we again have our Board and General Assembly meetings in virtual mode due to the continuing pandemic. I would like to thank our hosts for both the planned Board meeting and General Assembly for once again understanding the constraints and that it would be irresponsible (and in many cases impossible) to ask people to travel at this time. We hope that both meetings in 2022 will be possible in-person.

The pandemic has greatly affected many of our activities, meaning that many events, regrettably, had to be run entirely online. We anticipate a move towards in-person (or at least hybrid) events in 2022. In the meantime, a number of IFIP 60th anniversary events have been successful run online over the last few months continuing on until the end of the year (see below).

UNESCO

We had planned to host an event to celebrate our 60th anniversary/jubilee at Maison de l'UNESCO on 28 September 2020. Because of the prevailing situation early in 2020, we decided to postpone this event. While UNESCO have been very supportive of rescheduling the event to the same date in 2021 (so that it would still coincide with UNESCO's International Day for Universal Access to Information and mark the end of our 60th anniversary year) this has not been possible.

We are progressing plans with UNESCO to have a virtual (likely half-day) event later in the year as part of a program of 60th anniversary events. A provisional date for this is now 21st December and would likely be the final event of our jubilee celebrations.

60th Anniversary Event Coordination Committee

I have asked IFIP Vice President Anthony Wong to chair a 60th Anniversary Event Coordination Committee. The intention has been that this committee would not run any events but would seek out active participation in a series of online events to recognize our 60th anniversary.

These events include the UNESCO event alluded to above, an event to recognize our new IFIP Fellows (organized in conjunction with IFIP Vice President Jan Gulliksen), launch of the jubilee books, the IFIP Code of Ethics, and several bespoke events organized with IFIP members societies.

All IFIP events this year will be "branded" as 60th anniversary events. IFIP Honorary Secretary Max Bramer has created an event page on the IFIP website to list events and provide links to them.

To date, more than 40 events have been held or are confirmed to be held. As President, I spoke at the following events, all held virtually:

- *SmartCom 2021, 5th International Conference on Smart Trends for Computing and Communications, 15 April (InterYIT)*
- *ICTIS 2021, 5th International Conference on ICT for Intelligent Systems, 23 April (InterYIT)*
- *ICACA 2021, 2nd International Conference on Advanced Computing and Applications, 29 March (CSI)*
- *KCC 2021, Korea Computer Congress, 23 June (KIISE)*
- *CSBC 2021, 51st Congress of the Brazilian Computer Society, 20 July (SBC)*
- *INFORMATIK 2021, 29 September (GI)*

WSIS

IFIP is again heavily involved in WSIS this year, including hosting an IFIP Virtual Exhibition organized by Moira de Roche which was launched in a well-attended online event on 15 March. IFIP will be a supporter of WSIS again in 2022.

Ethics

A final version of the IFIP Code of Ethics has been approved and printed in booklet form.

Membership

Over the past 2 years we have spoken with potential new members: Botswana Computer Society, Thai Association of IT Professionals, Bangladesh Computer Society, IT Commission of the United Republic of Tanzania.

IP3, and Moira de Roche in particular, have been helping to progress issues with Botswana and Tanzania, and Moira is assisting Botswana with an event.

Tanzania is launching a new IT association in October 2021 and has invited the President and Moira de Roche to attend its launch.

A consortium from Denmark, using the French arrangement as inspiration, has joined.

Finance

The financial situation for 2020 did not turn out to be as dire as anticipated. This is due to the postponement / cancellation of several expenditure items, reduced travel, and a higher-than-expected rise in royalties.

As of now, the 2021 situation is not looking very bad. However, income tends to be early in the year, whereas outlays tend to be spread throughout the year, so it would be premature to make too many conclusions.

3.3 Secretary's Report

Mr Bramer presented the report of the Honorary Secretary:

This is my second report to the General Assembly since taking on the role of Honorary Secretary at the end of the 2019 General Assembly in Kiev and the second year that has been severely disrupted by the worldwide Covid-19 pandemic.

Secretariat

I am pleased to be able to report that the Secretariat has continued to function well despite very difficult lockdown conditions in Austria. I have regularly communicated with Mr. Eduard Dundler, the IFIP General Secretary on management and administrative matters and as always have found him an invaluable source of information and support. His colleagues in the Secretariat, Brigitte Brauneis and Marion Smith are always positive and helpful. Together they have enabled the Federation to continue to operate in what must have been extremely trying conditions.

Brigitte Brauneis is due to retire at the end of November, having joined the secretariat back in 2000. I am sure all members will join with me in wishing Brigitte well for the future. Her replacement is currently being recruited. A key role for this new administrator will be to build up the Federation's use of social media through our Twitter and LinkedIn accounts and our YouTube channel.

Membership

Following voting by General Assembly members using the electronic voting system, the Nigerian Computer Society and DANFIP, a consortium of Danish universities, have been accepted as Country Representative Members. Regrettably NCS has not yet paid its initial membership dues and under Bylaw 2.8 its membership will not officially begin until it has.

The Federation's membership is now as follows

Country Representative Members: 37

International Members at Large: 2

National Member at Large: 1

Technical Committee Chairs: 13

*Ex-Officio Members: 6
Honorary Members: 7
Associate Members: 4*

Executive Committee

Since the last General Assembly, the Executive Committee has had a regular meeting each month at which a wide range of topics has been discussed. The minutes of all these meetings have been circulated to members of the General Assembly and placed on the website in the secure area.

Finance Committee and Technical Assembly Chairs

At the end of the last General Assembly the chairs of both the Finance Committee and the Technical Assembly automatically became vacant as the previous chairs were no longer members of the General Assembly. The posts have now been filled by the President, with Declan Brady, the immediate past Treasurer, as Finance Committee chair and Philippe Palanque as Technical Assembly chair.

Annual Report

The third in our series of annual reports, covering the period 2019-20 was produced and circulated during the year. The 2020-21 report is at an advanced stage of production and will be circulated soon.

Honorary Treasurer

In May we received the shocking and entirely unexpected news of the death of our Honorary Treasurer, Milan Ftacnik from Slovakia. On behalf of the Federation, the President sent messages of condolence to both the Slovak Society for Computer Science and Mr. Ftacnik's family. Following discussion in the Executive Committee, the President agreed to take on the role of Acting Honorary Treasurer up to the end of the forthcoming General Assembly in September 2021. An election will be held during the General Assembly for a new Honorary Treasurer to come into office immediately the meeting ends.

IFIP 60th Jubilee

IFIP was founded in 1960, so our 60th Jubilee year was 2020. We were unable to celebrate the occasion then for obvious virus-related reasons but are doing so this year through a series of virtual events going on to the end of the year. All General Assembly members are encouraged to take part in these special events and also to contribute to our publicity for them by cascading down publicity for the events to our member society, technical committee and working group communities.

Future Prospects

Despite the development of very effective vaccines, it would be naïve to imagine that the pandemic crisis is nearly over and the world will spring back to its pre-pandemic state soon, or indeed ever. As has frequently been pointed out, nowhere in the world will be safe until everywhere is safe. Dangerous new mutants of the Covid-19 virus can potentially come in from anywhere, anytime. Until most of the world has been vaccinated – and possibly even then – there are likely to be repeated periods of restrictions on international travel, quarantining of entrants from certain countries etc.

IFIP is in a difficult position as a multi-national Federation which specialises in bringing people together from all parts of the world. We have to be especially careful that our international gatherings do not become super-spreader events.

They are likely to be vulnerable to suddenly imposed travel restrictions for some time. The President has already reported that there is expected to be a severe drop in our income from events this year. By an unfortunate coincidence of timing, our long-standing investment portfolio has had to be closed and is currently attracting a zero rate of interest, although fortunately no handling charges. The income from the portfolio in 2019 was 213,000 euros. In 2021 it will be zero.

The challenge for the Federation in the next few years is how we can continue to develop despite these challenges. In my opinion we need to take advantage of the videoconferencing technology that has been adopted by much of the world in response to the pandemic. Virtual conferences and meetings may not be a full substitute for the person-to-person interaction of face-to-face ones, but they are far easier to organise, cost almost nothing to run and cut attendance costs drastically.

I would expect that most – but possibly not all - of the excellent events organised by our Technical Committees and Working Groups will revert to face-to-face mode as soon as they are able to and so will meetings of the Board and the General Assembly. However, we should also look for opportunities to take advantage of the availability and widespread use of videoconferencing facilities to improve our internal communications, to organise new types of events and generally to communicate more effectively with the ever-growing worldwide ICT community.

The Board ACCEPTED the report.

3.4 EC Meetings Report

Mr Bramer informed the Board that since 2011 all minutes of meetings of the Executive Committee have been made available to General Assembly members in the Secure Area of the Federation's website.

4 Statutes & Bylaws Committee

Mr Bramer presented proposals for changes / clarifications in IFIP's Statutes and Bylaws.

Bylaw 3.8., final paragraph (Electronic Voting: Quoracy): To reduce the risk of an inquorate vote.

The proposal was **ACCEPTED** (For – Abstain – Against) 39 - 6 - 0

5 Election of IFIP Officers and Councillors

Mr Hinchey explained General Assembly the voting procedure within the given situation of a virtual meeting and using of the secrete voting system "NemoVote".

IFIP President Elect:

Nominations Committee received three nominations for President Elect. Each of the nominees presented themselves to the General Assembly and were interviewed in a short Q&A session.

- Mr Max Bramer (ex-officio) 5 votes
- Mr Kai Rannenberg (Germany) 20 votes
- **Mr Anthony Wong (ex-officio) 22 votes** **ELECTED (2021-2022)**

IFIP Honorary Secretary:

According to IFIP's Bylaws there is always a ballot for the election of Honorary Secretary.

When there is a single candidate for any of these posts that candidate will not be elected if he or she receives less than 50% of the valid votes cast.

There was one nomination.

Mr Max Bramer (votes: 30 pro; 11 against)

ELECTED (2022 – 2025)

IFIP Honorary Treasurer:

According to IFIP's Bylaws there is always a ballot for the election of Honorary Treasurer.

When there is a single candidate for any of these posts that candidate will not be elected if he or she receives less than 50% of the valid votes cast.

There was one nomination.

Mr Kai Rannenberg (votes: 39 pro; 4 against)

ELECTED (2021 – 2024)

Vice President:

There was one vacation. Nominations Committee received one nomination for Vice President; the nominee presented herself to the General Assembly. Although it is not required by IFIP's Bylaws a ballot was held.

Ms Moira de Roche (votes: 36 pro; 9 against)

ELECTED (2021 – 2024)

councillors:

There were two vacancies for Councillor position; one to be nominated by the IP3 and one nominated by the IFIP President. Although it is not required by IFIP's Bylaws a ballot was held.

Nominated by IP3:

Mr Wouter Bronsgeest (NL) (votes: 33 pro; 4 against)

ELECTED (2021 – 2024)

Nominated by the IFIP President:

Mr Alastair Irons (UK) (votes: 30 pro; 3 against)

ELECTED (2021 – 2024)

Mr Hinchey thanked the leaving Councillor Raimundo Macedo for his contribution as Councillor to IFIP's success and wished him all the best for a fruitful work as National General Assembly representative of Brazil.

The President congratulated the new officers and Councillors and wished them successful work for IFIP.

6 Finances

6.1 Treasurer's Report

Mr Hinchey as acting Honorary Treasurer presented the Treasurer's report and said:

Following the sad and unexpected passing of IFIP's Honorary Treasurer, Milan Ftáčnik, in May 2021, the Executive Committee met virtually and in accordance with Statue 5.4.2 (a) and (b), agreed that the President would take over the role of Acting

Treasurer until an Honorary Treasurer could be elected at the General Assembly meeting.

Financial Situation

FY 2020 had a zero return on the portfolio, resulting in a loss of €44.4K, with €17.5K of funding for projects from that portfolio. The issue of zero return on the portfolio is likely to continue until late 2022 and does cause a great issue for income.

The budgeted loss of almost €138.5K has not yet transpired. This is partly due to reduced expenditure but also due to the fact that most income comes in during the early months of the year (e.g., member society subscriptions are due before April). However, much expenditure (e.g., Secretariat costs) is constant throughout the year. Therefore, the positive result of €62.5K as of the end of June is likely to be eroded. However, the loss may still be less than was originally budgeted.

Budget 2022

Royalties' income has mostly been maintained in 2020 and 2021 and is expected to do the same in 2022. Event income may also improve somewhat, but travel is still likely to be reduced from prior years.

Budget holders have been asked to be conservative and the 2022 budget includes all requests.

September 12th, 2021		IFIP Profit / Loss Statement Detail (TREAS 4)				
	PY 2018	PY 2019	PY 2020	Jan-Jun 2021	Budget 2021	Budget 2022 Proposal
INCOME	313 405	310 669	267 443	216 482	269 354	270 293
Dues from Members	135 856	130 814	136 367	143 802	150 000	150 000
Return On Assets	10	19	779	0	40 000	500
Royalties from Publications	63 381	79 369	82 579	55 686	16 829	49 998
Proceeds from Activities	86 158	78 467	19 218	16 994	37 525	44 795
Other Income	28 000	22 000	28 500	0	25 000	25 000
EXPENSES	429 045	450 224	310 906	158 860	448 570	440 610
Admin.Secretariat	240 714	260 355	256 411	127 558	289 800	223 000
Admin.Support	57 409	81 404	24 298	7 650	47 470	40 460
Technical Committees	50 471	55 949	14 221	9 922	64 800	71 650
InterYIT	0	9 662	1 756	0	7 000	15 000
Domain Committees	0	-300	0	-300	0	0
DCSC Supp to TC Events	7 438	8 353	500	5 000	6 000	6 000
Projects	70 505	22 672	7 620	4 005	24 000	75 000
Events (WCC, WITFOR, CIO)	2 508	12 129	6 100	5 025	9 500	9 500
PROFIT / LOSS	-115 640	-139 555	-43 463	57 622	-179 216	-170 318
Financing Projects from Portfolio	65 517	27 296	17 572	4 941	33 720	85 640
TC Fund Provision	-21 798	-23 925	-18 298	0	0	0
Return On Portfolio	-218 974	213 247	0	0	0	0
GRAND TOTAL	-290 895	77 062	-44 190	62 563	-145 496	-84 678

6.2 Finance Committee Report

Mr Brady, Chair of the Finance Committee, presented his comments to the Finance situation of IFIP:

In looking at TREAS 3 and 4 (available in the secure area of our ifip.org), I can see that (during 2020):

- *Concerning income:*
 - *Dues from members is on target.*
 - *Publication royalties is in-line with previous years*
 - *There is a very understandable ~60k drop in events proceeds*
- *Concerning expenditure*
 - *Secretariat costs are in-line with previous years (though activity will have been less)*
 - *Admin support costs (essentially accounts attributable to executive committee) are dramatically lower as meetings ceased or moved online*
 - *TC expenses are lower, for largely the same reasons*
 - *There is no compensating income from the Portfolio, due to its closure in the previous year*

Overall, the indicated loss of about €42k is not scary for the year that was in it.

Questions that I would expect to see addressed would be:

- *How successful has the transition been to online working?*
- *Is there an ongoing need for a premises in Vienna? What form should this take?*
- *How do we foresee the future marketplace for conferences affecting income?*
- *Did IFIP successfully take advantage of any financial supports available from the Austrian authorities due to COVID?*

Commenting on YTD figures for 2021 does not really tell us much at this stage, other than to suggest that the overall loss will be less than that budgeted, due to the ongoing pandemic restrictions.

The President noted that the final audit report for 2020 of IFIP's auditor was not published to General Assembly in advance due to a delay in delivery from the auditor due to COVID-19. It has been decided to put the draft audit report, which will include the same figures as the final audit report, on IFIP's website to allow all General Assembly members to read it and to evaluate it overnight to discuss it at the second day of the General Assembly.

General Assembly

- **DISCHARGED** the Treasurer and EC for fiscal year 2020 (with 42 votes for, 0 abstain, 0 against)
- **ADOPTED** the budget for 2022 unanimously

On day 2 of General Assembly the members (after reading the draft audit report)

ACCEPTED the Auditor's Report for 2020 (with 42 votes for, 1 abstentions, 0 against)

7 Proposed Statute Change

Mr Bramer asked General Assembly for approval of the following proposal from the Chair of the Statutes and Bylaws Committee:

(a) In view of the serious threat to the Federation's tax-exempt status unless an amendment is made to the Statutes by the end of December, and following the advice given by the Federation's financial adviser Consultatio, the General Assembly agrees to allow consideration of the motion for a Statute amendment given as part (b) of this proposal, notwithstanding the notice requirement specified in Statute 8.1.

General Assembly **ALLOWED** the motion (votes: 24 in favour, 1 against)

(b) It is proposed to amend Statute 6 'Finance' by changing the title to 'Finance and Ideal Means' and adding a second paragraph listing the 'ideal means' with the following text:

The Federation's mission shall be accomplished by the following "ideal means":

- *Lectures, training courses, discussion, and similar events, as well as the implementation of events of all kinds.*
- *Publication of books, newspapers, magazines and other information and information processing materials, as well as Federation publications.*
- *Contact with public authorities, organizations with similar objectives as well as the stakeholders necessary for the fulfilment of the purpose at regional, national and international level.*
- *Enabling and supporting cooperation amongst member societies.*

General Assembly **ACCEPTED** the proposed change of IFIP's Statutes (votes: 22 in favour, 0 abstentions, 0 against).

8 Membership & Marketing Committee

Mr Bramer, Chair of the Membership & Marketing Committee, presented the report of the Committee:

Following the last General Assembly, a recommendation from the Admissions Committee that the Nigeria Computer Society (NCS), which was a member of IFIP from 2004 to 2016, be allowed to re-join the Federation as a Country Representative Member (CRM) was put to an electronic vote of the CRMs. Of the 19 votes cast all were in favour of the proposal. However, it should be noted that 19 is only one more vote than the minimum needed to meet the quorum requirement for electronic voting.

A membership application was subsequently received from DANFIP, a consortium of Danish universities, to join as a CRM. This was supported by the Admissions Committee and again was endorsed by an electronic vote. As before there was overwhelming support from those who voted but the quorum requirement was only narrowly met.

The Federation currently has 37 Country Representative Members, 2 International Members at Large and one National Member at Large. Late payment of membership fees by several societies remains a perennial problem and the financial implications of the pandemic are unlikely to make this any better.

The Covid-19 crisis is at last receding, leaving many problems behind it. In my view significant recruitment of new member societies is not feasible at the present time and we now need to concentrate on retention of our existing members and interpret 'marketing' as promotion of our Technical Committee (TC), Working Group (WG) and other events to increase our international standing. Achieving the second of these aims will also help with achieving the first.

IFIP is already a centre of excellence through our member societies, our expert volunteer community, IP3, our TC/WG events, our publications, WCC etc. but our public relations are not equally good. We need to find better ways to tell the world who we are and what we are doing.

Similarly, we have excellent internal publications: IFIP Insights, IFIP News, IFIP Select. These should be going to thousands of people every month, not hundreds and be

promoted at every IFIP event. To do this we will need to build up GDPR-compliant mailing lists. There should be a simple GDPR-compliant facility to opt into mailings available to every delegate at every IFIP event including the Jubilee events.

I see the challenge for the next few years is how IFIP can continue to develop despite declining resources and with only a small secretariat. In my view we should adopt a three-pronged approach.

- 1. IFIP is currently celebrating its 60th Jubilee year (postponed since last year). The Jubilee organising committee made an early decision to appoint GI, our German member society, as consultants and this has worked out very well. In my view we need to leverage innovations introduced by GI to build up our international profile.*
- 2. We should also leverage the much-increased acceptability and availability of free video-conferencing systems - use the 'power of virtual'. Virtual conferences and meetings are not a full substitute for face-to-face ones, but they are far easier to organise, cost almost nothing to run and cut attendance costs drastically.*
- 3. We need to greatly improve our communications, both internally and externally, using our social media platforms Twitter, LinkedIn and YouTube.*

I have made a number of detailed proposals for each of these elsewhere and will not repeat them here.

The Membership and Marketing Committee met during the year and agreed to conduct a survey of the Federation's Country Representative Members and Members at Large. A report on this will be placed on the General Assembly website. It was disappointing that only 17 member societies responded but the results are still interesting, give some ideas for going forward and provide a base on which future surveys can build.

9 Member Societies Assembly

Mr Neuhold, Chair of the Member Societies Assembly, informed General Assembly that soon an election of members of the MSA will take place.

Mr Neuhold congratulated in the name of the MSA, IFIP and all the people involved in the 60 Years Effort and said that the Web page IFIP.org has now a section on the 60-year activities where the two jubilee books AICT 555 and AICT 600 are linked to, and another Link IFIP-Jubilee <https://ifip.org/jubilee60/> ; that IFIP has organized ten panels in the "Future of Information Processing" Event Series and that the IFIP 60 Faces campaign will feature IFIP members active in all parts of the organization. These "faces" should/will be promoted through social media posts introducing them to a global audience.

Mr Neuhold informed General Assembly about the key concerns of MSA for the years 2021 till 2022 Key Concerns 2021 – 2022:

a) Lack of action to acquire new Members

- a. Tasks to attract new Member Societies needs to be actioned by a dedicated resource employed in the Secretariat's office (budget has prevented the appointment of a dedicated resource)

- b. Membership fee is not the principal problem, but the cost of meetings / conferences and other IFIP activities; solutions are necessary in time of budget concerns
 - c. More focus on the international network of scholars
 - d. Inform of and discuss IFIP's relationship with UNESCO
- b) **A special Section in the IFIP Digital Library for the Member Societies**
- a. MSA strongly supports the initiative of Mr Kai Rannenber and the Publications Committee
 - b. It should be multi-lingual; multi-media should be considered
 - c. It should be considered whether a moderator will be needed
- c) **Continuation of the Activities of IFIP 60 Years**
- a. Some Moderation will be needed, like the GI support
 - b. Events of Member Societies could be spread via IFIP channels

Mr Neuhold reported that another issue of concerns within MSA is IFIP's website.

- A public MSA website should be created, in which for example minutes of the MSA should be shown
- Too many IFIP related issues are hidden behind the IFIP Secure Area
- The long list of subheadings may need structure

10 Publications Committee

Mr Rannenber presented the report from the Publications Committee:

1. *Accomplishments since the 2020 GA meeting, important facts and ongoing work:*

1.1 *Open Access to IFIP Publications in general*

Open Access to IFIP Publications is currently realized via four channels, as documented

on www.ifip.org/index.php?option=com_content&task=view&id=219&Itemid=564

1) *The new IFIP Digital Library (<https://hal.inria.fr/IFIP/>), which currently makes available the author's files of IFIP Springer publications (AICT, LNCS, LNBIP) from 2018 (as applicable) back to 2010. It also includes the references to such publications up to and including 2021.*

2) *Springer Link (<https://link.springer.com>) for IFIP Springer publications (AICT, LNCS, LNBIP) with free access for all articles 4 years old and older, almost complete backwards till 2005 and additionally many publications backwards till 1995, when Kluwer Academic Publishers (KAP) became the official IFIP publisher. NB: Not the "books" are free, but the individual articles. So don't get confused by the fact that there is a lock on the book download. Just move on to the table of contents and download the articles individually.*

3) *IFIP Select (<https://ifip.org/select>): Selected papers from IFIP proceedings, selected to be of interest to a more mainstream audience, especially member societies' members, so that member societies can distribute this compendium as a service to their members. Papers are more overview papers than very specialized ones and in any case each accompanied by "cover paper" of 2-3 pages that describes the related scientific paper and its relevance for a more mainstream audience.*

4) *The previous IFIP Digital Library (dl.ifip.org/) for some non-Springer publications and also Springer publications between 2005 and 2012.*

Combined, (almost) all IFIP works published with Springer from ca. 2005 to 3 years old are available for open and free access (one way or the other). In addition, many proceedings back till 1995 when KAP became the official IFIP publisher are available (NB: KAP, the then official IFIP publisher, was merged into Springer in 2004).

1.2 Revision and update of the IFIP Digital Library

The implementation of the new IFIP DL provided as a professional service by Inria had been initiated to provide open access to results of IFIP events and to strengthen IFIPs position in the publication market, e.g. in relation to commercial and other publishers. The implementation is progressing. The status can be viewed on <https://hal.inria.fr/IFIP>. The positive strategic impacts are already palpable.

1.2.1 Uploaded content and offerings to readers

Per 27th August 2021 there were 16414 full text documents uploaded (15864 in September 2020). The upload process was slowed down due to the early effects of the Corona crisis but is catching up now.

All IFIP publications by Springer from 2010 through 2019 and the first of 2020 and 2021 are in the DL. We also have the first three eCollection (non-Springer publication) volumes and the first two ePublications (“Informal Introduction to ALGOL 68” and the IFIP Code of Ethics and Professional Conduct) in the DL. Each eCollection is also in the collection for its TC and events, ePublications as appropriate. ePublications are IFIP documents that are not reviewed research conference/workshop papers but are relevant and not documented elsewhere.

Several options for search are implemented and also a function “Cited literature” to extract bibliographies from articles automatically.

For all downloadable papers the numbers of record views and document downloads are given. <https://hal.inria.fr/IFIP-AICT-362/hal-00669799> also documents an example of the interface to Altmetric coverage with e.g. Mendeley and News references.

For the most recent Springer publications (for which Springer has the exclusive publication and embargo rights for three years except for author copies on authors’ home pages) the tables of contents are given. There is a link to the author manuscript and a link to the paper in SpringerLink. So, the author manuscript can be obtained by clicking on its link, and the (Springer) publication copy of the paper can be obtained by clicking on its link (designated DOI). The publication version link will be active as soon as the proceedings volume is added to the DL. In summary the paper is accessible to those with a subscription to SpringerLink immediately, and four years after publication it is accessible to the public. The author manuscript link is active from three years after publication.

The structure of IFIP Springer and non-Springer publications is reflected in the DL including the new AICT Festschrift subseries.

1.2.2 Upload procedures and conditions

The IFIP eCollection and ePublication workflow procedures are agreed with the IFIP Secretariat and Inria. So IFIP is inviting IFIP eCollections and ePublications. The price is 10 EUR per paper upload (with the front matter counting as one paper also). Interested event organizers are invited to contact the IFIP Secretariat.

1.2.3 Downloads and reception

In 2020 monthly views and downloads were between 51898 and 76102 with peaks in June, May, and August 2020 and seasonal changes (i.e. rather smaller figures in February, July, and September).

Ca. 74% of the accesses are paper downloads, the other 26% are views (25.64%) and downloads (0.34%) of the metadata. The statistics providing these figures are following

the approach of the COUNTER project (www.projectcounter.org), so accesses by robots are removed if detected. Therefore, the figures are lower than the figures that are displayed per paper in the DL interface, where these sanitisation mechanisms are not (yet) applied to the same degree.

The 3 most popular documents in 2020 were:

- 1) "Network Profiling: Content Analysis of Users Behavior in Digital Communication Channel" (hal-01542442) from "Multidisciplinary Research and Practice for Information Systems: IFIP WG 8.4, 8.9/TC 5 International Cross-Domain Conference and Workshop on Availability, Reliability, and Security, CD-ARES 2012, Prague, Czech Republic, August 20-24, 2012. Proceedings" (4.641 accesses);
- 2) "Identifying the Drivers of Economic Globalization and the Effects on Companies' Competitive Situation" (hal-01524230) from "Advances in Production Management Systems. Value Networks: Innovation, Technologies, and Management: IFIP WG 5.7 International Conference, APMS 2011, Stavanger, Norway, September 26-28, 2011, Revised Selected Papers" (4.173 accesses);
- 3) "A Guide to Selecting Theory to Underpin Information Systems Studies" (hal-01468141) from "Grand Successes and Failures in IT. Public and Private Sectors: IFIP WG 8.6 International Working Conference on Transfer and Diffusion of IT, TDIT 2013, Bangalore, India, June 27-29, 2013. Proceedings" (3.937 accesses).

The publication at rank 100 had 462 accesses.

Inria points out that the results obtained should not be considered in the absolute, as in addition to the consultation and downloading of files by IFIP DL users, there are also numerous scores from indexing robots and counts from other search engine crawlers. Furthermore, it is not necessary to consult a record to download the document: Google offers direct links, the links in the bibliographies are often links to the document and not to the record, etc. This may explain why the results of file downloads can be higher than those of consulting records.

Accesses to the DL in the period July 2020 till May 2021

The available figures for 2021 show a growth. In 2021 (with figures till May 2021 with May figures of 54030 incomplete so not considered) monthly views and downloads were between 72007 (February) and 116068 (March) with peaks in January and March 2021 and seasonal changes (i.e. rather smaller figures in February). The trend shows a growth of ca. 30 – 53% depending on what is being compared.

1.2.4 Issuing of DOIs for IFIP publications

DOIs for IFIP publications published by Springer are created by Springer and are included in the metadata (xml file) for each volume (and paper), and therefore get recorded in the IFIP DL at Inria during processing into the DL.

For non-Springer volumes/books/documents in the eCollection and ePublication collections of the IFIP DL, IFIP now can issue DOIs. After careful consideration of the need for DOIs, the related costs and the side effects the IFIP Board in March 2021 approved a trial till end of 2023 including a membership with Crossref. The aims of the trial are:

- 1) Issue Digital Object Identifiers (DOIs) for IFIP publications that do not get a DOI otherwise. Prime examples are the IFIP eCollection series and the ePublications;
- 2) Learn about the interest in DOIs by editors and authors of IFIP publications;
- 3) Gather experience about the processes in the IFIP Secretariat to issue and maintain DOIs and the related effort;
- 4) Gather experience with the DOI system and with Crossref as a Registration Agency.

IFIP is establishing DOIs of the form 10.52545-n-m, where n is 1 for eCollection and 2 for ePublication, and m is the issue/volume number of the publication. So, for example, issue number 3 in the eCollection would have DOI 10.52545-1-3.

For eCollection and ePublication volumes/books that have DOIs for papers/chapters in the volumes, the DOI for each paper/chapter is obtained from the volume DOI by appending the paper/chapter sequence number, as is done by Springer. So, each paper of a proceedings may have a DOI of the form 10.52545-n-m-k, where 10.52545-n-m is the volume DOI and k is the sequence number of the paper. Thus, for example, the fourth paper in issue number 3 in the eCollection would have DOI 10.52545-1-3-4. The DOIs established by IFIP are included in the document information sent to Inria to establish the document in the IFIP eCollection or ePublication.

For IFIP membership with Crossref has a cost of USD 275 per calendar year pro-rated for the remainder of a calendar year. Thus, membership costs for the trial period are assumed to be maximum $2.75 * 275 \text{ USD} = 756.25 \text{ USD}$, which can be assumed to be not more than 760 EUR. These costs are to be paid from central IFIP funds and allocated at the budget of the Publications Committee.

Content registration fees via Crossref are onetime 1 USD for “current” records, which are assumed to be the main share of records to be provided with a DOI. “Backfile” records are priced at 0.15 USD. Content registration fees are to be charged to the IFIP entity sponsoring the respective publication and/or related event.

For the first steps of the trial IFIP has set up a DOI for the Code of Ethics or other documents already in the IFIP DL. 200 EUR should be enough for these DOIs, so central funds will need to bear 760 EUR plus 200 EUR, in summary 960 EUR till 2023. The trial is to be evaluated at the General Assembly 2023 the latest with the option to leave Crossref at the end of 2023.

1.2.5 The previous IFIP Digital Library

With thanks to the volunteer efforts of TC 6 and especially Aiko Pras we continue to have many IFIP publications (mainly proceedings from 2005 till 2012) available for free access at <http://dl.ifip.org/>. This is not limited to TC 6 publications and holds for publications three years old and older. However, this library has collected more proceedings than agreed and made announcements, that the links to those proceedings would be preserved, even when dl.ifip.org will be rerouted to the new IFIP DL. Therefore, the transfer effort is larger than expected and the degree of rerouting is being clarified.

1.3 Publications agreement with Springer

The current contract with Springer is valid since January 01, 2020 and until December 31, 2024. Please let the PC know any issues that you see, so that they can be discussed and considered in the work with Springer and for future negotiations.

1.3.1 Publication lines with Springer

IFIP's flagship line of publications is IFIP Advances in Information and Communication Technology (IFIP AICT, <http://www.springer.com/series/6102>). Besides the main line IFIP AICT currently has three active sub-lines: Festschrifts, Surveys and Tutorials. In addition, several IFIP publications are published as part of LNBIP and LNCS.

The first AICT Festschrift was published on the occasion of IFIP's 60th anniversary in December 2020. It is AICT 555 with editors Leon Strous, Roger Johnson, David Alan Grier, and Doron Swade. The title is “Unimagined Futures – ICT Opportunities and Challenges”, see <https://www.springer.com/gp/book/9783030642457>. The 2nd Festschrift edition celebrating IFIP's 60th anniversary is AICT 600, a collection of papers focussing on the technical/scientific output of the TCs and their WGs. Its editors are Michael Goedicke, Erich Neuhold, and Kai Rannenber, and it was published in August 2021.

For AICT 555 and AICT 600 Springer enabled immediate open access on SpringerLink as a jubilee gift. It can be reached, if readers access SpringerLink via the respective book links on the IFIP Digital Library page (<https://hal.inria.fr/IFIP/>).

1.3.2 Publication figures and income

In 2020 altogether 53 volumes were published (after 53 in 2019, 45 in 2018, 48 in 2017, and 49 in 2016). For 2021 so far 55 publications are envisaged. Royalties for 2020 were 68532 EUR after 69245 EUR for 2019, 50001 EUR for 2018, 60938 EUR for 2017 and 51942 EUR for 2016. Compared to 2019 the 2020 figures are constant in published volumes and a reduction of ca. 1.3 % in EUR. Royalties for the first half of 2021 were 16800 EUR from 13 (of expected 55) volumes published. It should be noted, that volumes are counted per publication year, while royalties are counted per arrival at the IFIP accounts, so many volumes of Year n generate IFIP income not in Year n , but in Year $n+1$.

1.3.3 Linkage from Springer publications to IFIP and its events

2017 Springer has started inserting society logos on the SpringerLink pages of proceedings resulting from their cooperation with societies. Therefore, the IFIP-logo is being displayed on the bottom of the sections "About these proceedings" (Bibliographic information) and "About this paper" of all IFIP AICT, IFIP LNCS and IFIP LNBIP volumes.

The relation between the IFIP AICT Editorial Board members (one per IFIP TC) and the respective TCs is made explicit both on the Springer IFIP AICT website and the AICT book front matter. The IFIP AICT website also links to detailed information about the 13 series editors organized by the sequences of IFIP TCs.

Authors and editors can add their ORCID (Open Researcher and Contributor ID) to their name in all IFIP-AICT proceedings papers.

1.3.4 Access to IFIP publications with Springer

Access to IFIP publications with Springer (AICT, LNBIP, and LNCS) is as follows:

- 1) All IFIP publications in SpringerLink are becoming cost-free accessible four years after publication. This holds for as long as IFIP has a contract with Springer. It covers the publications since the contract between IFIP and Chapman and Hall (and later Kluwer) back in 1996. So many more of the earlier IFIP publications are now available for free as long as this contract holds. (NB: This is not to be confused with the embargo period for the IFIP Digital Library. After 3 years IFIP can put the author's versions of IFIP publications published with Springer into the IFIP Digital Library.)
- 2) "Retrodigitized" proceedings are opened after 3 years instead of 4 years. As Springer had retrodigitized many of the older proceedings in 2013, almost all became available during 2016.
- 3) Publications published under the current and the previous contract (i.e. from 2015 till 2019 and from 2020 till end of 2024) will be accessible cost-free also after the end of any contract with Springer.
- 4) Springer offers to IFIP a special tariff structure for IFIP events going for immediate open access publications with Springer. If a complete whole volume is made open access the normal net fees are 34 EUR/page; for the first 2 proceedings per year this fee is reduced to net 30 EUR/page, for further ones in the same year to net 28 EUR/page. If single articles are made open access the net price is 42 EU/page.
- 5) For IFIP event proceedings, temporary free access on Springer link usually for 4 weeks can be enabled, if organizers give up on their free printed copies, see Section 1.3.6.
- 6) For AICT 555 and AICT 600 Springer enabled immediate open access on SpringerLink via the IFIP Digital Library as a jubilee gift, see Section 1.3.1.

1.3.5 Quality assurance and other IFIP procedures

The interaction between a proceedings editor and Springer is subject to all procedures established by IFIP for all IFIP publications. In particular, this includes any quality assurance mechanisms established by IFIP. There is a high degree of agreement on quality assurance between Springer and IFIP, although some elements in IFIP's policy had needed explanation. To operationally ease the process of quality assurance the members of the AICT Editorial Board are being informed every time, when Springer has accepted to start the process of publishing proceedings from an event of "their" TC.

1.3.6 Rights for IFIP events to gain proceedings and related conditions

An IFIP event whose proceedings are published by Springer can receive up to 50 printed copies of the proceedings free of charge except for shipping costs.

However, it should be noted, that Springer is moving away from this option to the option of temporary (normally two weeks prior and two weeks following the event) free access to the publication on SpringerLink via the event website. So, at some point in the future there may be only the option to receive temporary free access to the proceedings in SpringerLink.

Springer indeed reduced the default number of complimentary copies to 25; the other 25 copies need to be requested explicitly. This option was only in summer 2020 included into the standard information on terms handed to editors (the terms for bulk purchases of conference proceedings) after an explicit request by IFIP.

Moreover, Springer will provide free printed copies for post-conference proceedings only if the files are sent within 9 months after the conference. Otherwise only temporary free online access is offered. New events in their first two instances are exempted from this restriction.

Springer is currently offering the free use of the iThenticate tool for plagiarism check as a part of the Springer proceedings publication package. The tool is offered on demand to all events publishing with Springer, but as it has costs, Springer does not publicize this widely (also, 90% of the events seem to not really need this). The software checks everything registered at Crossref (whatever has a DOI) plus a lot of cites on the web. The tool is not perfect, but to Springer's knowledge the best available.

1.3.7 General trends in Springer's interests and offerings

There are also general trends in Springer's interests and offerings that are worthwhile to note:

- Springer is more interested in topically targeted publications than in publications that cover the whole of informatics or computer science, as topically targeted publications seem to sell better.
- Springer also expressed explicit interest in topically targeted contributions under WG or TC stewardship, even if they are not related to an event.
- Publications on SpringerLink have moved from pdf to an html/e-book compatible format.
- All printing is via "print on demand".
- For institutions who purchased one or more eBook collections from Springer and their people there is a lower quality, black-white only printing option, called "MyCopy" for £24.99 / \$24.99 / € 24.99 / ¥2999 (depending on shipping address) per copy including shipping & handling excluding local VAT/Sales tax where applicable. Details including a list of the ca. 30 countries, where this service is available, can be found on <https://www.springernature.com/gp/librarians/products/ebooks/my-copy>.
- Springer offers authors the option of including embedded videos in their proceedings papers, free of charge. An example can be seen on https://link.springer.com/chapter/10.1007/978-3-319-46454-1_31. Technical

requirements must be fulfilled e.g. wrt format, duration. For more information please see https://link.springer.com/chapter/10.1007/978-3-319-46454-1_31.

- *Springer CrossMark Policy: CrossMark is a multi-publisher initiative to provide a standard way for readers to locate the authoritative version of an article or other published content. By applying the CrossMark logo, Springer is committing to maintaining the content it publishes and to alerting readers to changes if and when they occur. Clicking the CrossMark logo on a document will tell its current status and may also give additional publication record information about the document. For computer science proceedings the conference and peer review information will be displayed. More information on CrossMark can be found on the CrossMark website: <https://www.crossref.org/services/crossmark>.*

1.4 IFIP Select: An “e-journal” comprising “best” papers from IFIP proceedings

The purpose of IFIP Select is to obtain a better outreach and diffusion of some of the excellent research done in within IFIP TCs and WGs. By doing that and adding some information & discussion on the practice contribution we make the research produced within IFIP available to a much larger audience of national computer societies. IFIP Select is a more or less regular compendium of papers from IFIP proceedings that could be of interest to an audience, especially member societies, who could distribute that compendium and see value in it justifying the IFIP membership fee. “Best” is “Best for member societies”, i.e. more overview papers than very special ones.

The concept especially includes asking the authors of the selected papers to produce a “cover paper” of 2-3 pages that describes the related scientific paper and its relevance for a more mainstream audience, especially for practitioners and other “typical” members of member societies.

IFIP Select is accessible under www.ifip.org/select and via the IFIP home page. It contains the “cover papers” and links to the full original papers in the IFIP DL or Springer Link or copies of the full papers, if they are not published elsewhere.

Since the publication of the first issue IFIP Select is being publicised together with Springer. A preliminary agreement was reached that existing papers from Springer Link can be linked in a way enabling cost-free access. These papers are available for 12 months to cover for 2 issues per year.

1.4.1 Editorial process

The TC Chairs once a year appoint two published papers from the last 18 months as the best from their TC.

The Editor-in-Chief contacts the authors and asks them to write and add a 2-3 page “How can I apply this? – The practice contribution” aimed at the thousands of members of national and regional Computer Societies (that are members of IFIP).

When received this new addition is reviewed by a small Editorial Board (currently 2 people) appointed by IFIP Publications Committee consisting of representatives from National Societies with a reasonable command of research.

1.4.2 Logistics

The journal is being published electronically 2-3 times a year. In each issue of the journal there are to be 5-7 papers. This means that each TC on average will have 1.5 best papers published per year.

1.4.3 Operations till now

Jan Pries-Heje – former Chair of TC 8 – is Editor-in-Chief for the first 3 years. Elizabeth Eastwood agreed to reviewing the “cover papers” from the perspective of a national computer society representative

The first two issues with a total of 10 papers were published in February and December 2019

https://www.ifip.org/index.php?option=com_content&task=view&id=262&Itemid=674)

They contain papers from TCs 3, 8 (6 papers), 9, and 13 (2 papers).

Publication of the third issue is expected for September 2021. 11 papers were nominated by six TCs. Eight sets of authors were contacted. About half of the authors responded positively and submitted for the third issue by mid-July. After the reviewing process is over publication will follow with papers from TC 8, TC 11, TC 13 and possibly TC 10.

Work on obtaining nominations for a fourth issue has started.

1.5 IFIP TC journals

Three TCs have journals:

1) TC-3 Education and Information Technologies, with Springer, <https://link.springer.com/journal/10639>

2) TC-11 Computers & Security (COSE, <https://www.journals.elsevier.com/computers-and-security/>) and the International Journal for Critical Infrastructure Protection (IJCIP, <https://www.journals.elsevier.com/international-journal-of-critical-infrastructure-protection/>) with Elsevier.

3) TC-14 Entertainment Computing, with Elsevier. <https://www.journals.elsevier.com/entertainment-computing>

2 Work in progress and plans

2.1 Development of the IFIP DL and the "IFIP eCollection" series

Tools are needed to support the editors of non-Springer proceedings for those tasks that for Springer proceedings are executed by Springer. This holds especially for the transfer of files out of paper reviewing systems and the production of the metadata needed for the DL. One option is the Sciencesconf conference management system that Inria provides. However, at least four different systems are being used by the several organizers of TC-6 conferences. A related step is to transfer the e-only proceedings that are currently in Aiko Pras' library into the new IFIP DL.

Moreover it is planned to redirect dl.ifip.org to the new IFIP DL. This requires that the links to the proceedings in the previous IFIP DL will be preserved or redirected. As this library has collected more proceedings than agreed and made some announcements, that links to those proceedings would be preserved, even when dl.ifip.org will be rerouted to the new IFIP DL the transfer effort is larger than expected. It also requires some reorganisation in the Inria HAL system underlying the IFIP DL, which Inria plans to have completed by the end of 2021.

Following interest by the Technical Assembly the option for IFIP to issue Digital Object Identifiers (DOIs) for its non-Springer-publications is being explored in a trial (see Section 1.2.4). In the long-term perspective it is worthwhile to consider whether Inria would be offering DOIs for materials in their archives; more precisely CCSD (The Center for Direct Scientific Communication), who operates HAL, the basis of the IFIP DL might be doing this. For IFIP eCollection and ePublication documents this would be a good match, as they are being processed by Inria for the DL anyway. Inria is indeed considering these kind of offers for the future, but nothing is available at this time. Also it is unclear, when more information would be available.

A facility similar to the IFIP ePublications is considered for IFIP Member Society publications, after KNVI had approached IFIP about the possibility to store some of their publications in the IFIP DL. The PC has analysed the option of a special section in the IFIP DL. The process and costs would be very similar to those of the ePublications series; IFIP Member Societies would need to take the responsibility for the quality of these publications both with regard to content and technical preparation. Currently the Executive Committee is checking questions like compatibility with IFIP's tax exemption.

In view of restricted resources the opening of the IFIP DL towards non-Springer proceedings has got priority over the bibliographic processing of Springer IFIP proceedings older than 2010.

There are also some open questions being clarified with regard to IFIP's possibilities and impossibilities for (usually old) papers where the copyright is not clear.

2.2 Quality assurance for IFIP publications

Work is underway to implement quality assurance for all IFIP publications by an IFIP editorial board. Feedback from the Technical Assembly on the proposal for regular quality assurance process (that had originally been developed within the Technical Assembly) was mixed. Some TCs like the process. A few TCs don't see any need for any formalized process, as one should trust the well-chosen Programme Committee chairs. Some TCs are insecure about the effort for the process. One TC is trialling the proposed process reporting good experiences.

For the "IFIP eCollection" series quality assurance will also need to cover those aspects that for Springer publications Springer is taking care of (e.g. compliance with the IFIP templates and proper lists of references). The respective requirements procedures are now being discussed with the IFIP TA.

2.3 Development of IFIP AICT

The intention remains to involve the AICT Editorial Board, along with the PC, in considering how to make AICT a stronger series, using further sub-lines to distinguish between different types of events and publications.

2.4 IFIP Select: An "e-journal" comprising "best" papers from IFIP proceedings

Publication of the third issue of IFIP Select is expected for September 2021. Work on obtaining nominations for a fourth issue has started. The deadline for submission is October 31. Publication of the 4th issue is scheduled for January 2022.

If the number of TCs nominating rises, we can quickly move to two issues per year again.

2.5 The UNESCO Software Heritage initiative and related aspects

The UNESCO Software Heritage initiative has asked for IFIP support. This can have a wide spectrum, e.g.:

- 1) IFIP recommending for IFIP publications the archive/reference/cite guidelines that are detailed in the article "Archiving and Referencing Source Code using Software Heritage" published by International Congress on Mathematical Software (ICMS, Springer open access at https://link.springer.com/chapter/10.1007%2F978-3-030-52200-1_36);*
- 2) An official IFIP commitment to the initiative.*
- 3) An expansion of our DL to archive data software artefacts (NB: the guidelines mention HAL (the basis for our DL) as an existing infrastructure for archiving software).*

This initiative has to be seen in a wider context, which not only addresses software but also research data. Computer Science as a discipline generates quite a lot of research data which needs and receives special and increasing attention in the publication area. Artefact and research data review processes need to be devised and performed. IFIP needs to play various roles here since

- 1) the credibility of the discipline increasingly depends on empirical data and*
- 2) raw data is useless very soon unless it is stored in a specific curated space, including all the software and context information needed to reconstruct or re-enact the processes to generate, purge, analyse and visualize the research data.*

These efforts are in line with the mission of IFIP since these activities shall all facilitate / improve the so-called FAIR principles (Findability, Accessibility, Interoperability, and

Reuse of digital assets). Thus, this means for Computer Science data and software need to a focus here.

Given these important aspects the PC has assessed the referenced ICMS article with regard to:

- 1) The usefulness of the guidelines to be added to our guidelines for editors and authors; related services shall be considered and discussed with our current and potential partners.
- 2) Possible competing or parallel initiatives we should also consider; there is, for example, quite a range of activities nationally and internationally under way. IFIP should seek a leading role here and implement these principles in IFIP's own range of activities but should also make an effort to support the necessary international actions to support a sustainable way to standardize related metadata and interoperation protocols.
- 3) Advice to IFIP EC or Board or GA on this topic; TA, GA and member societies shall be encouraged to develop related activities to support the specific aspects of the related areas of work in TCs and WGs as well as within the related structures of member societies.
- 4) The idea of expanding our DL with data and software archiving;
- 5) Possible related issues of relevance. IFIP shall endorse the FAIR principles and should positively consider support for the Software Heritage Foundation and related activities addressing research data management in area of IFIP. Liaison to other related bodies at all levels shall be established and actively used to support the activities world wide.

With regard to the request by the UNESCO Software Heritage initiative the PC recommends to IFIP to indeed recommend for IFIP publications the archive/reference/cite guidelines that are detailed in the article the UNESCO Software Heritage initiative refers to.

Further activities along the lines described above are being considered. To gather input from Member Societies and TCs on the storage of software and data a questionnaire will be prepared.

11 Professionalism Program (IP3)

Ms de Roche, Chair of IP3, presented the Chairmen's report of IP3 and reported:

The first half of 2021 continued much as 2020 had, with no travel and virtual events. Although I have always been a fan of "virtual" and prefer online learning, I can't wait for the time when once again we can meet and share in person.

My own Society, IITPSA has held two very successful AGMs virtually, as well as an awards event which impressed everyone. VIP guests even received their own box of treats so that they could nibble as they watched the proceedings. These events were hosted professionally and were excellent examples of what can be done.

Ms de Roche presented some highlights of the last year:

IFIP & IP3 at WSIS2021 (Virtual Event)

IFIP was once again a Supporting partner, and put up a Virtual Exhibition

High-Level Policy Session

Maira de Roche represented IFIP at Session 10, Ethical Dimensions of Information and Knowledge Societies, on Friday, 26 March 2021. The questions we submitted, and

answers provided: What is IFIP's view on Ethics as a governance issue – corporate and governmental?

Ethics is a governance issue in any organization. We talk about the “tone from the top” - Leadership must set the ethical standards. In South African Company law, based on KING IV, organizations are mandated to have a board Social & Ethics Committee for oversight of Ethical Issues. Decision-making is included in leadership training; this must be expanded to include ethical decision-making. Leadership is part of both the ethics problem and the solution, because of their influence and power over people and processes.

It's worth remembering that business is built on Trust, which goes hand in hand with ethics. “Good governance never depends upon laws, but upon the personal qualities of those who govern.”- Frank Herbert (Science Fiction author).

The Information Society, and particularly IT Professionals and vendor organisations have been talking about Ethics for some time. What actions can be taken to ensure that Ethical decision-making is embedded in the organisation's culture, whether it is a public, private, or government organisation?

IT Organizations – whether a vendor or IT department in business or government – need a Code of Ethics that everyone understands. This will guide leadership and employees when there is a dilemma between company and individual interests. Everyone must learn about the Code, and how it is used for ethical decision-making. To properly embed ethics into an organization's culture, or I like to call it their DNA, ongoing refresher and remedial training to remind employees of the principles and the process for ethical decision-making is essential. Remember the goal is to change habits, and this cannot be done if an individual attends a course once. Everyone in the organization must be taught how to recognise when they have an ethical quandary.

Discussions amongst employees about whether a decision is ethical or not should be encouraged. Some member societies have an Ethics exam which professional grade members must pass. It does not guarantee ethical decision making, but at least gets the individual thinking about it.

Ethics must not be a “read and sign” activity as it is in many organizations. Often it is aligned to disciplinary processes, but when it gets this far, the Ethics failure is already history – reactive, not proactive.

Together with the recently launched IFIP Code of Ethics, which we believe should be a benchmark or exemplar for all Codes of Ethics, we have a CARE process, which is a step process for deciding whether something is ethical. Clearly, one cannot always consult the Code, and then the process, every time a decision is made. Therefore, it must become second nature, especially when developing IT products. As with other Professions, we must consider “Who could be harmed” by this technology or digital product. There is a need for a conscience in the ICT profession. This is already intuitively understood by practitioners and the “man on the street,” but it needs to be acknowledged and voiced at every opportunity. Conscience speaks to everyone's unspoken uneasiness.

(In the) COMEST report to UNESCO, “Finally, engineers and software developers should be appropriately trained to ensure responsible design and implementation of AI.”. IFIP could not agree more, although we believe that the same issues face those who produce systems and digital products, irrespective of the technology used.

How can IFIP help? IFIP IP3 are ready to assist UNESCO and all the UN bodies to ensure ethical training. We have published the IFIP Code of Ethics, which we believe should be the standard and starting point for all ICT Codes. We can help any organization with the change process required to embed Ethics into the culture and to make sure that all ethics knowledge can be applied on the job and “on the fly”, because we can’t stop everything and say, “Wait, is this ethical?”. We can’t just hope for the best. Recent examples of major ethics failures such as Boeing Max and Volkswagen Dieselgate come to mind, but there are many more. Call IFIP IP3 – we’d be pleased to go on the Ethical journey with you.

Thanks go to Leon Strous & IP3 board members for contributing to the answers. IP3 Thematic Workshop - Building Cyber Resilience with a Professional workforce Held on Tuesday, 13 April 2021 at 13:00-14:00 CEST, the workshop explored: How to Protect infrastructure, privacy, consumers and facilitate global skills transfer. It formed part of the Cyber-Security track.

The UN Secretary-General in his Jun 2020 Digital Cooperation Roadmap: Secretary-General’s Roadmap for Digital Cooperation (un.org) articulates the importance of many facets on digital cooperation including on:

- Digital Capacity-Building*
- Digital Trust and Security*
- Artificial Intelligence*

This workshop showcased activities in different regions to build capacity in Digital Trust & Security for cyber-resilience in a world that went digital almost overnight. We explored how Skills Frameworks, Bodies of Knowledge, and Quality Assurance are developing to build capacity in Cyber-Security, creating a resilient professional workforce.

The session was moderated by Moira de Roche, Chair IFIP IP3. Speakers included: Steve Furnell, Chair IFIP TC11; Fred Van Noord, ENISA; Anthony Wong, IFIP V-P; Robert Weisman, University of Ottawa.

David O’Leary Award

Deputy CEO of the Irish Computer Society (ICS), Mary Cleary won the inaugural David O’Leary Award in 2019. This recognised her ethical and professional leadership over many years. The award was not bestowed in 2020, because the COVID-19 Pandemic meant that GA would be held virtually. Given that the situation has not really changed in 2021, we decided to present the award at GA this year, and the winner will be invited to attend GA in 2022.

Four nominations were received for the 2021 award. A judging pane comprising three GIC directors was convened. Judging is currently underway.

IITPSA Achieves IP3 Accreditation for a Second Term

IP3 is pleased that IITPSA (Institute of information Technology Professionals South Africa) completed the process of renewing the accreditation of its professional recognition scheme (PMIITPSA) with flying colours. The IP3 Board approved the recommendation of the Standards and Accreditation Council in December 2020 to extend the accreditation for a further five years unconditionally. The evaluation process was notable for several reasons. It was the first to be completed remotely, with the assessors remaining at their home bases in different continents. It was the first to be completed without the need for interviews, thanks to the high quality of the comprehensive documentation submitted by IITPSA in support of their application. It was the first to accredit a SFIA Level 7 designation, recognising the role of Professional CIO (Pr.CIO).

Engagements

I was invited to speak at the IT Professionals Europe (ITPE) Professional Ethics Expert Group meeting on 9 December 2020, about the IFIP Code of Ethics. The title of the presentation was "Ethics, ethics everywhere, but which code should we use?". Moira took the opportunity to explain to participants that the over-abundance of Codes of Ethics does nobody any good and went on to explain the process used by the IFIP Task & Finish Group to compile the IFIP Code of Ethics. Moira stressed that any organisation should use this code as the starting point for their own Codes, adding to it as required to suit local conditions. Click [here](#) for the IFIP presentation.

I was also invited to participate in a working group discussion in the World of Work Dialogue, convened by WHO. Across the four themes there were over 40 participants representing SMEs, large multinationals, labour unions, MOH, ILO, WHO, etc.). The themes for discussion were:

- Collaborating for results: Public-private collaboration in health emergencies
- Communicating in crisis: Information sharing and leadership during health emergencies
- **Changing the future today: Sustainability at the core of business, contributing to a healthy society, economy, and world**
- Custodians of health: Employers as health protectors/providers/enablers

I participated in the topic shown in bold. I emphasised the importance of Trust and Ethics in a world that had gone online virtually overnight. For more information visit the [Events](#) page at the World Health Organisation's website.

IFIP Code of Ethics

Moira was part of the Task & Finish Group for the Code of Ethics. As it is the work of IP3 to promote and market the code, there will be a section of the IP3 website which will include a page for a downloadable PDF of the code. IP3 will also evangelise the code at every opportunity. A limited number of printed copies of the IFIP Code of Ethics booklets are available.

Liesbeth Ruoff, who represents KNVI on the IP3 board, shared this good news "After the Code of Ethics was accepted at IFIP GA, KNVI immediately took the opportunity to present the Code and it was accepted at their AGM in November. KNVI has not changed anything in the code and will use 2021 will be used to get the Code introduced to their members".

IITPSA has rebranded the Code as the IITPSA Code of Ethics – other than including and introduction and addendum with member-specific information, the code is in its original form. It is now a prescriptive code for all IITPSA members.

Digital Skills for Everyone, everywhere (project led by Liesbeth Ruoff)

IP3 remains committed to this project. Under the leadership of Computer Society Botswana, and in collaboration with Rotary, a pilot is underway in Botswana. Plans were affected by the COVID-19 Pandemic, but the project is making some progress.

We have not yet achieved the goal of getting more partners on board but will continue to strive to do so.

IP3 and Member Society discussion at SEC2021

IP3 Chair Moira de Rocher moderated a session "IFIP and Member Societies". Panellists included:

- David Cook, Vice President: Academic Boards, ACS (Australia)
- Jee-In Kim, IFIP Councillor, KIISE (South Korea) (IP3 Director)

- John Higgins, President, BCS (UK)
- Liesbeth Ruoff, KNVI, Netherlands (IP3 Director)
- Terje Wold, Chair, Norwegian Computer Society (NCS)
- Tony Parry, CEO, IITPSA (South Africa)

Each panellist was asked to talk about their Society, and its relationship with IFIP and by extension IP3. This was followed by a robust discussion on what IFIP does well and on the contrary could do better. We also examined how Societies could get more benefit from the activities of their TC and WG reps. One of the suggestions was that the deep knowledge gained from academic research could be converted into “bite-sized” information to make it more palatable to members from a non-academic background.

TC11/IP3 collaboration

Representatives from the T11 – Information Security, and IP3 are in discussions about what we can do to provide clarity for those navigating the many skills and competency frameworks on Cyber-security. We are not planning on duplicating any work, but rather scanning the landscape of what is available. We will be investigating potential partners for this.

Ms de Roche conveyed her thank to the IP3 board, and those who participated in our workshops for their time and commitment during the past year.

Ms de Roche presented the Statement of Financial Position:

	1 July 2020 – 30 June 2021 Actual (€)	1 July 2019- 30 June 2020 Actual (€)
Opening balance held in IFIP accounts as of 1 July	36,529.03	46,57,02
RECEIPTS		
Membership Fees		
Sponsorship*		
Total receipts		
EXPENDITURE		
Travel and associated expenses	195.17	2886.92
Website		140.63
Meetings		1,024.44
Other (Trademark renewal)	1,180.06	4,360.00
Award (Prize & travel)		1,630.00
Total expenditure	1,375.23	10,041.99
Excess of expenditures over receipts	-1,375.23	-10,041.99
Total equity carried forward to next period:	36,153.80	36,529.03

Ringfenced Award Sponsorship reduced by expense	7,606.45	7,606.45
Available Equity	27,547.35	28,922.58

Mr Hinchey closed the meeting at 16:30 and informed the participants that the meeting will be continued on the next day (September 22nd, 2021) at 12:00 Vienna time.

DAY 2

Mr Hinchey open the General Assembly meeting, as tele conference on September 22nd at 12:00.

General Assembly **APPROVED** the Auditor's Report for 2020 (request has been postponed on Day 1 (Item 6.2)).

12 InterYIT

Mr Joshi, Chair of InterYIT, presented the report. He reminded General Assembly on the Working Objectives for 2021 - 2022:

- To encourage the professional growth of Young Professionals around the world.
- Be the umbrella organization for all Young IT groups that are directly and indirectly working with national computer societies.
- Foster communication between Young IT Groups.
- Encourage the creation of new Youth IT Groups within member societies who does not currently have such representation.
- Promote representation of young professionals in the computer societies as well as within IFIP.
- Be the linkage between young professionals and IFIP (www.ifip.org).
- Sign MOU for partnership with different working Groups and other stake holders.

The **InterYIT** board expects to expand its services to support young professionals around the world as well as to strengthen groups of young professionals who are in the field of IT. (www.ifip-interyit.org).

InterYIT represents youth or Young ICT Professionals represents the countries or regions, covering 5 continents at this point of time. Ambassadors would be the face of the InterYIT in the member countries as well as trying to maximize the presence of InterYIT in nonmember countries as well. Ambassadors are responsible for promoting InterYIT activities among the likeminded researchers and Young ICT professionals working in the different ICT domains.

Mr Joshi reported that InterYIT had 20 Digital Events in the last year, including Conclave, Conference, FORUMS, Discussions, Workshops, where approximately 1500 people participated.

The Global YOUTH IP BLUMAR CONCLAVE took place as a part of IFIP's 60th Anniversary Celebration.

Mr Joshi presented the plans of InterYIT for the coming year:

- Taking presence of InterYIT to 20 Countries
- Organizing 50 events in different locations (10 in physical and 40 digital form)
- Connecting people to Forum. – Youth
- Making stakeholders know about IFIP
- Creating a trust today to build the tomorrow's IFIP community and create IFIP Leaders.
- Create an InterYIT Board (involving more people from the youth), comprising of 1 Chair, 1 Secretary and 4 Members and covering all continents

Mr Joshi finally concluded that the team InterYIT - IFIP is continuously striving to connect more young IT Professionals and enhancing its activities for the benefit of IFIP Members Societies.

13 IFIP Flagship Events

Mr Hinchey reported on IFIP's flagship events. IFIP organizes the following flagship events on a 3-4 years cycle:

- World Computer Congress (WCC)
- World IT Forum (WITFOR)
- World CIO Forum (WCF)

A number of options were being considered for each of these events prior to the pandemic.

CSI has indicated an interest in hosting a forthcoming **WCC**, either in Delhi or Bhubaneswar.

Both Honduras and Peru were considered as potential hosts for **WITFOR**. There have also been suggestions of having an online version of WITFOR possibly spread over time. The latter was discounted as potentially diluting the value of the "brand".

The President had just begun discussing with a potential host for **WCF** when the pandemic began.

As a result of the current situation, with travel restrictions etc., none of these options have advanced. Therefore, none of these events are likely to run before 2023.

14 IFIP Awards

14.1 Service Award

Mr Hinchey presented the report from the Service Awards Committee. The Committee received six nominations for the IFIP Service Award. All six nominations were recommended by the Awards Committee for approval to GA.

General Assembly **APPROVED** (voting: 41 for; 2 abstentions; 1 against) to award with the Service Award:

Prof. José Abdelnour Nocera (TC13)	Dr. Fernando Loizides (TC13)
Prof. Hans Jochen Scholl (TC8)	Dr. Gloria Phillips-Wren (TC8)
Ms Ana Respício (TC8)	Dr. Li Da Xu (TC8)

14.2 *Silver Core*

Mr Hinchey presented the report from the Awards Committee. The Committee received five nominations for the IFIP Silver Core Award. All five were recommended by the Awards Committee for approval to GA.

General Assembly **AGREED** (voting: 42 for; 3 abstentions; 0 against) to award with the Silver Core:

Prof Pedro Campos (TC13)
Prof Helen Petrie (TC13)
Mr Salvador Mir (TC10)

Prof Dr Gerhard Weber (TC13)
Prof Dr. Manfred Glesner (TC10)

14.3 *IFIP Fellowship*

Mr Gulliksen reported that the Fellowship Selection Committee received eighteen nominations. Twelve nominations received a majority of support within the committee for recommending them to General Assembly for approval.

General Assembly **APPROVED** the recommendation of the Fellows Selection Committee (voting: For 38; abstentions 3; against 0) to award with the IFIP Fellowship:

Jean Vanderdonckt
Andreas Holzinger
Fredi Tröltzsch
Ricardo Augusto Da Luz Reis

Ling X. Li
Guy Pujolle
Jan Pries-Heje
Pierangela Samarati

Gerrit C. van der Veer
Jacques Sakarovitch
Paola Inverardi
Sushil Jajodia

14.4 *IFIP IP3 David O'Leary prize, by REDDS capital*

Ms de Roche reported that the David O'Leary Price has been established to acknowledge an individual or organization that has promoted and demonstrated Professionalism (Professional Practice), has worked as an Ethics Evangelist, and/or has made strides in fostering diversity.

Four nominations received; the Judging Panel, GIC Directors: Tan Moorthy, Eliezer Manor, Mark Mueller Epstein selected the winner:

Don Gotterbarn

General Assembly congratulated Mr Gotterbarn.

15 **Technical Assembly (TA)**

15.1 *Technical Assembly Report*

Mr Palanque explained to General Assembly the composition and role of Technical Committees within the structure of IFIP. He said that Technical Assembly with the 13 Technical Committees have in total with their National Representatives, Working Group chairs, Expert members, Officers currently 336 members. The committees are split into 118 Working Groups with 5826 members (officers, members, observers). In total Technical Assembly represents 6192 people. These people are responsible for organizing about 100 events, like conferences, workshops, summer schools, per year. These events

generate income for IFIP, which, together with royalties for publication, is used for funding the Technical Committees.

Mr Palanque gave an overview about the work of the Technical Committees in 2020 / 2021:

TC1 - Foundations of Computer Science

- *Activity reduced to administration due to COVID*
- *No evolution in WGs (beyond membership)*
- *8 working groups with events (became virtual, cancelled or hybrid)*
- *Idea to make TC1 more visible (summer school and common event)*
- *2 chapters in AICT 600 book*
- *Conference planning resumed to normal for 2022*

TC2 - Software - Theory and Practice

- *No evolution in WGs (beyond membership)*
- *working groups (some joint with other TCs: 1, 6, 8, 13)*
- *3 conferences in 2020 (QUDOS 2020, ESOC 2020, OSS 2020)*
- *3 IFIP fellows in 2020 Judith Bishop, William Waite, Anthony Wasserman.*
- *Next meeting Jan. 2022*

TC3 - Education

- *Annual meeting virtual in April 2021 – next meeting in 2022 (August)*
- *4 working groups (no changes)*
- *Produced one chapter in AICT 600*
- *Hold multiple events in 2020*
- *Ran the TC3 conference in August 2021 (hybrid mode) – 72 participants (62 remote, 10 onsite)*
- *One of TC3's main aims is to continue to develop further relations with UNESCO, IOI, BEBRAS and EDUsumMIT.*

TC5 - Information Technology Applications

- *60th annual meeting online in 2020 (Nov.) next one 2021 (Nov.)*
- *11 working groups*
- *New chair of WG 5.12 (Architectures for Enterprise Integration)*
- *6 chapters in AICT 600*
- *events organized since last IFIP GA*

TC6 - Communication Systems

- *Online-only communication and voting for TC management*
- *9 working groups*
- *IFIP Networking (main event) was organized online*
- *IFIP TC6 open DL still being migrated to the IFIP DL (HAL-inria)*

TC7 - System Modeling and Optimization

- *7 working groups*
- *Main conference on System Modeling and Optimization organized online in 2021 (225 participants) next one in 2022*
- *Several working groups organized events*

TC8 - Information Systems

- *52nd meeting to take place in October 2021 (including election of next TC8 chair)*
- *Working on the liaison with Association for Information Systems (AIS)*

- 10 working groups
- Use of a linked in group for information dissemination
- Supports
 - WGs to have up-to-date websites
 - WGs to organize online events (and not cancel them)
 - WGs dissemination and networking activities
- Multiple nominations to IFIP awards (in the report)

TC9 - ICT and Society

- TC meeting was organized online
- 15th IFIP Human Choice and Computers Conference 2020 (HCC15) postponed to 2022 (hosting 4 WG events)
- 10 working groups and one SIG
- Production of the IFIP Code of Ethics booklet
- Contribution of 3 chapters to AICT 600 book
- Information about national representatives and WG reports (both verbal and written) in the TC report

TC10 - Computer Systems Technology

- Online meeting planned for end of 2021
- No flagship event but large events in the working groups (e.g. WG 10.4 IEEE/IFIP DSN conference) all went online
- 4 working groups
- Participation to #ifip60 with panels (from WGs)

TC11 - Security and Privacy Protection in Information Processing Systems

- TC meeting online in June 2021
- Flagship event SEC conference organized online (with WG 11.8 conference WISE)
- 14 working groups (no changes)
- Contributed one chapter to IFIP AICT 600
- Takes part in #IFIP60 with a panel Cybersecurity skills
- Missing representatives of the IFIP full member societies from the following countries or member societies (list of August 2021: Brazil, China, Cyprus, Croatia, Iran, India, Ireland, Lithuania, Serbia, Slovakia, Sloviak Republic, Sri Lanka, and the United Arab Emirates)

TC12 - Artificial Intelligence

- Multiple events organized by the TC some of them related to the main AI conferences (e.g. IJCAI)
- 10 working groups
- New working group 10.12 on AI governance

TC13 – Human-Computer Interaction

- 3 short meetings a year instead of one full day meeting – all online
- Flagship event IFIP TC 13 INTERACT organized in a hybrid manner (in Bari Italy, Sept. 2021) – about 450 participants (150 onsite)
- 10 working groups
- 6 working groups organized workshop within INTERACT 2021 conference
- No participation in #IFIP60 events
- Multiple awards given at INTERACT conference

TC14 – Entertainment Computing

- TC meeting held online in May 2021

- *Flagship conference International Conference on Entertainment Computing (IFIP ICEC) November 2020 went online by ICEC 2021 will be hybrid (Coimbra)*
- *10 working groups*
- *One working group evolving (Interactive Immersive Entertainment in X-Reality)*
- *Nominations to several IFIP awards*

Mr Palanque presented the most important issues for Technical Assembly:

- *Support to ACM CC 2020 and offer to help (people nominated from the TCs)*
- *Creation of a new working group: AI Governance (chair: Antony Wong – IFIP president Elect)*
- *Discussion about the creation of a working group on Human Augmentation*
- *Discussion about the creation of a new domain committee on Quantum Computing*
- *Active participation in the #IFIP60 events and faces (33 nominations) and advertising on TCs events*
- *Active participation in the nominations of IFIP Fellows (and other awards)*
- *No incidence on TCs' functioning of budget decisions from last year*
- *Need member societies to nominate TC members*

15.2 “Informatics For All” (I4All) Coalition

Mr Passey, Chair of TC 3, presented a report on membership of the I4All Coalition Board:

Following the invitation to IFIP TC3 and IFIP to join the “Informatics For All” (I4All) Coalition as a coalition partner, this was discussed with TC3 members, the EC, the TA, the GA and with I4All. Following the GA 2020 AGM, and the response from the President, the kind offer was accepted. Two members from TC3 (Don Passey, Chair and Mary Webb, Chair of the Task Force) joined the I4All Coalition Board for a year from July 2020, without further obligation. These TC3 members have attended all online I4All Board Meetings and have been involved in a group that has developed an ‘Informatics Curriculum Framework for Schools’. This draft document is proposed as a basis for implementation of an informatics curriculum for all school-aged students across all countries in Europe. The first draft of this document is currently out for initial, limited and invited consultation. It is suggested that IFIP and IFIP TC3 maintain membership. At this stage, no funding is required for any activity, as all events are currently being run online. The issue of funding will need to be considered further if there is a requirement during the coming year. If the I4All Coalition are happy for continued membership on this basis, then I recommend that we continue our involvement with this group.

15.3 Technical Assembly Proposal for S&B Changes

Mr Palanque presented 3 proposals for changes in IFIP’s Statutes and Bylaws and asked for approval:

Proposal 1 Statute 5.3.1 [election of councillors]. [The General Assembly shall elect the following Councillors:] "A current TC Chair, nominated by the Technical Assembly".

It is proposed to change this to “A current or recent past TC Chair, nominated by the Technical Assembly”.

For a change in the Statutes a 2/3 majority is required. The election resulted in:
For: 12; Against: 8; Abstain: 3

General Assembly **REJECTED** the proposal.

Proposal 2 Bylaw 4.1.2. Chair of Technical Assembly.

Replace the text “The Chair is appointed by the President” by “The Chair is elected by the Technical Assembly members and becomes an ex officio Vice-President”.

After discussion in GA the proposal has been revised to: “The Chair is elected by the Technical Assembly members”

General Assembly **ACCEPTED** the proposal (For – Abstain – Against) 27 - 4 - 1

Proposal 3 Statute 5.4.1. Before the sentence “The above-mentioned persons are the Officers of the Federation” add the sentence “The Technical Assembly chair is an ex-officio member of the Executive Committee”.

For a change in the Statutes a 2/3 majority is required.

General Assembly **ACCEPTED** the proposal (For – Abstain – Against) 14 - 4 - 1

16 Domain Committees (DC)

16.1. DC on Health Care

Mr Hinchey reported that the Chair of the DC on Health Care (Diane Whitehouse) indicated some time back that her interest areas had evolved and that she was over-committed and not able to continue support for the DC on Health Care.

As a result, the DC has been dormant for some time. This is a pity, as the topic crosses over the interests of a number of TCs and WGs (the purpose for which the concept of a Domain Committee was created) and has become vitally important in the current global situation.

It is noted that there are pockets of interest from various TCs and WGs. Either these need to be brought together to revive the DC, or it should be disbanded.

16.2. DC on Internet of Things

Mr Strous drew attention to his report from the Domain Committee on Internet of Things:

Membership

Since the report to GA 2020 the DC has welcomed members from TC-8: Krassen Stefanov (Bulgaria), A Min Tjoa (Austria) and Li Da Xu (USA). A few TCs are still missing, hopefully they can join soon.

Position paper

No progress has been made in finalizing the position paper. The draft position paper is included in the open access proceedings AICT 548. A revised version was accepted by the Board 2019. Upon publication a number of reactions have been received. These were included in the report to GA 2019 with the intention to discuss how to proceed. This discussion however did not take place. With the GA 2020 as a virtual meeting, there was no opportunity to discuss it and with GA

2021 also being virtual there will again be no time to discuss it in the meeting. An enhanced version of the position paper could be included in the book that is planned by the DC, see end of this report.

Conferences

The third edition of the annual working conference was scheduled to take place on 5 and 6 November 2020 in Amsterdam. Unfortunately, this edition had to be postponed. In order not to lose momentum, on 5 and 6 November 2020 a virtual event took place with 8 invited speakers. The event was attended by an average of 60 participants.

The program reflected the state-of-the-art of IoT in its different domains, from IoT technologies to the demanding real-time applications. The first day was dedicated to one of the IoT areas that is, nowadays, the focus of many research groups: IoT Edge Computing and the use of Machine Learning techniques in IoT systems. The first talk (Prof. Augusto Casaca, INESC-ID/INOV, Portugal) gave an introduction to IoT edge computing and reflected on its current challenges. Two other talks were given on Machine Learning on constrained edge IoT environments (Prof. Srinivas Katkoori, Univ. South Florida, USA) and on the use of DevOps for IoT (Dr. Jean-Yves Tigli, Univ. Côte d'Azur, France). A fourth talk (Dr. Georgios Karagiannis, AIOTI, Belgium) gave a perspective on the current IoT standardization challenges, which includes challenges at several levels of IoT, from the system to the communication level. The second day of the conference featured another four talks with a focus into privacy/ security aspects of IoT and IoT vertical applications. The first talk (Prof. Elisa Bertino, Purdue University, USA) summarized some of the key aspects in IoT security and also on the impact of IoT into the privacy of the users. The remaining three talks were dedicated to the advanced IoT applications. Prof. John Stankovic (University of Virginia, USA) gave his view and examples of current developments on the Internet of Health Things. Dr. Ovidiu Vermesan (SINTEF, Norway) emphasized the role of edge computing and Artificial Intelligence in digitizing industry. Finally, Dr. Vijay Rao (Cognizant Technology Solutions, The Netherlands) focused into the tactile Internet present solutions and on what we can expect in this domain in the future.

Five presentations and the opening and closing remarks have been recorded and can be found on <https://www.youtube.com/playlist?list=PLsA2NMm9uf4YFjUR1A4sGLidrHWSWBmCr>

This was a very successful event both from the technical and attendance points of view.

The fourth edition was planned as a physical, or at least hybrid, event, taking place on 4 and 5 November 2021, in Amsterdam. Given the COVID-19 developments in the Netherlands but also in other parts of the world and with only 3,5 months before the start of the conference there is a high risk that in the format of a hybrid event there will be very few participants physically present. Therefore, regrettably, the program and organizing chairs had to decide to choose for the virtual-only option for the 2021 edition. The review process is currently taking place, the program will be available mid-August. For the latest news and details see <http://ifip-iotconference.org/>. We hope to have a physical event in 2022.

The DC is still working on the idea for a state-of-the-art book that will include chapters on various aspects of IoT. The goal to publish this book in Q2 or Q3 2021 has not been met, this will be later. The DC is still working on the format.

17. Digital Equity Committee

Ms Marin-Raventos presented the report of the Digital Equity Committee:

Conformation of the Digital Equity Committee

The Committee consists of

- *Gabriela Marín-Raventós (CR), Chair of DEC and IFIP Vice-president*
- *Ramon Puigjaner (ES), former DEC Chair and former IFIP Vice-president*
- *Raymond Morel (CH), Swiss representative to the IFIP GA and member of TC3*
- *Lalit Sawhney (IN), IFIP WITFOR 2012, New Delhi and former IFIP Vice-President*
- *Leon Strous (NL), IFIP Past President and one of WITFOR creators*
- *David Kreps(UK), Chair TC9 on ICT and Society*
- *Lawrence Gudza (ZW), Zimbabwean representative at the IFIP General Assembly*
- *A Min Tjoa (AT), former IFIP Honorary Secretary*
- *Robert Davison (HK), Chair of WG9.4 on Social Implications of Computers in Developing Countries*
- *Don Passey (UK), Chair of TC3*

Funding allocation for 2020

DEC had a 2020 budget of 12.000 euros. During the first call (I-2020), 11.500 euros were allocated. No additional call has been done during this year due to three factors:

- (1) all the budget has already been assigned if the 500 euros reimbursed for the OCCE 2020 event are included,*
- (2) the events with allocated funding would occur towards the end of the year, and therefore no real estimate of reimbursement has possible in August, and*
- (3) COVID has caused many events to cancel or move to online versions, not requiring travel funds.*

Funding execution for 2020

DEC allocates funding for IFIP events with the objective of covering travel expenses for keynote speakers on developing countries and for Ph.D. students from developing countries attending IFIP conferences. Due to Covid-19, traveling around the world became very difficult and dangerous. As a result, most conferences and academic events were postponed or migrated their activities to a virtual/remote online version.

In April, DEC met virtually and decided that the allocated funds could be used to cover registration fees for Ph.D. students from developing countries for events being held virtually. This possibility was communicated to events with allocated funding. So far only 3.540 euros have been reimbursed to

- *TFC2020 (€1.500)*
- *IFIPjwc2020 (€2.040)*

HCC14 was cancelled and its funding request postponed for 2021 (and have not used it thus far, and a new request has received for HCC15 for 2022).

Funding allocation for 2021

DEC had a 2021 budget of 6.000 €. During the first call (I-2021), three requests has been received. Two of them for 2021 and one for 2022.

Allocated to

- INTERACT 2021 18th International Conference on HCI*
<https://www.interact2021.org/> (1.750 € (up to 2.500 € upon request))

- b. OCCE 2021 DTEL “Digital Transformation of Education and Learning” <https://www.occe2021.fi/> (1.500 € (up to 3.000 € upon request))
- c. HCC15 IFIP 15th TC9 Human Choice and Computers Conference “Human Choice and Digital by Default: Autonomy vs Digital Determination”, www.hcc15.net (2.000 € (up to 3.000 € upon request)) for 2022

Funding execution for 2021

So far, only OCCE 2021 has requested reimbursement of funds granted. They only reported allocating help to 4 PhD students from developing countries. Thus, they invested only 600€ from the 1.500€ allocated.

INTERACT 2021 has not requested reimbursement, but they estimate that only 400€ will be used.

Activities during 2020-2021

For the IFIP Jubilee Book “Unimagined futures - ICT opportunities and challenges” (AICT 555) a chapter was written on “Digital equity, sustainable development and the ICT professional” by Leon Strous, Robert M. Davison and Gabriela Marín-Raventós.

The possibilities to do WITFOR 2022 in Lima, Peru, have been explored, potentially in combination with other IFIP events. Unfortunately, due to COVID there were too many uncertainties to reach decisions and start the real planning. The efforts to organize a WITFOR event will continue, and GA will be informed as soon as concrete plans and dates can be decided.

18. IFIP 60th Anniversary Committee

Mr Wong presented the report of the IFIP 60th Anniversary Committee to General Assembly.

He informed General Assembly that more than 42 events (with growing number) across the globe to promote and celebrate the 60th Anniversary of IFIP are planned; some of them already took place. This comprises of

IFIP (Jubilee) Events:

- events of any duration or format which are (co -) organized by IFIP, IFIP member societies, IFIP Technical Committees, Working Groups and other groups (like IP3 and Domain Committees).
- Events co-branded under the #ifip60 umbrella are included in the list of #ifip60 events

Mr Wong showed some examples of IFIP (Jubilee) Events organized by TC & WG, Committees and Member Societies.

IFIP Future of Information Processing Event Series:

- Events of a specific panel format, selected through a call for proposals and confirmed by the #ifip60 Committee
- The finalized series is available on the jubilee website

In May 2021 the Committee issued a call for proposals for 10 virtual events to debate and discuss issues at the intersection of technology and the information society, aligning with the concept and selection criteria in: <https://nextcloud.gi.de/s/TxoAeXB7et9FjRY> .

The “IFIP 60th Anniversary Future of Information Processing Series” is free and open to the public and takes place between August and December 2021.

In June, the #ifip60 Committee reviewed the expressions of interest and short listed ten virtual events.

Outcomes of these events are planned to be the following and will feed ultimately, into content creation for social media and other outreach activities:

- Recording of the session
- Supporting articles
- Optional: report with articles by panel members

“IFIP Future of Information Processing Series”:

<u>Title</u>	<u>Date</u>	<u>Involved</u>
1 The Silent Revolution: Software as the Technological Fabric of Society	30 Aug. 21	WG2.1, WG 2.8
2 Digital Twin for Cyber-Physical Production Systems	13 Sept. 21	WG 10.2
3 Strategic Collaboration of Certification and Education on Data Science	27 Sept. 21	IP3
4 IFIP Code of Ethics and Professional Conduct: A Document for its Time	04 Oct. 21	TC-9
5 Decision Making for a Sustainable Global Society	11 Oct. 21	WG 8.3
6 Autonomous Vehicle Safety and Security: An Information Processing Imperative	18 Oct. 21	WG 10.4
7 Trends on Computing Systems	25 Oct. 21	WG 10.5
8 Future Trends in Databases: from Data Science through Artificial Intelligence to Quantum Computing	22 Nov. 21	WG 2.6
9 Cybersecurity Skills	29 Nov. 21	TC-11
10 IFIP TC3 Zanzibar Declaration: The Outcomes	06 Dec. 21	TC-3

Mr Wong reported that 60+ faces of IFIP, like IFIP Member Societies, TC & WG members, Committees, Board, event speaker, have been presented in social media in order to demonstrate the broad variety of topics within TCs and WGs.

#ifip60 Communicators

Mr Wong reported that a group of communicators has been established with the aim to

- established a working relation between IFIP’s member societies and IFIP committees around communication
- foster bilateral exchange and carry out workshops as necessary
- address the communicators within the member organizations who are in charge of generating content and/or running the social media accounts of an IFIP member society and/or committee (e.g. Marketing /Social Media Manager)
- address the multipliers within the member societies and/or committees who conduct activities and want to make them visible in the #ifip60 campaign (e.g., Managing Director, Board Member, IFIP Representative, President)

Creation of the 60th Anniversary Events Coordination Committee A Timeline

- January 2021 IFIP EC Meeting, IFIP Vice President Anthony Wong appointed to chair the 60th Anniversary Events Coordination Committee (#ifip60 Committee).

- Terms of Reference for the #ifip60 Committee was approved by the IFIP EC at the February 2021 IFIP EC Meeting
- #ifip60 Committee was created and appointed in Feb 19, 2021.
- #ifip60 Committee met for the 1st time on March 1st, 2021, and have 1 2 meetings to date.
- Endorsed the #ifip60 Promotion and Campaign Plan on March 30th, 2021
- IFIP EC approved #ifip60 Promotion and Campaign Plan April 9, 2021
- German Informatics Society (GI) appointed to coordinate and assist on #ifip60
- In the short time, Member Societies and IFIP Committees have collaborated to host more than 42 events across the globe to promote and celebrate the 60th Anniversary of IFIP.

That has been a great achievement, in light of the tight timeframe.

Mr Wong informed General Assembly that IFIP wants to achieve

- In IFIP's jubilee year, the goal is to highlight the activities of all member societies and IFIP committees under the #ifip60
- Within IFIP and in the member societies, many interesting activities reach a big audience individually. We want to celebrate by connecting the dots and making these activities visible online as a part of the #ifip60 campaign.
- Therefore, we aim to equip all member societies and IFIP committees with the tools to easily market their activities with the #ifip60 logo and style guides to reach a bigger audience.

Commemorating the 60th Anniversary of IFIP in 2021 (May December)

- Celebrate 60 years of IFIP celebrate thought leadership, highlight achievements and expertises, multilateralism,
- Get Member Societies, TCs/WGs, YIT, IP3, Partner organisations, UNESCO, and other bodies involved
- Focus, focus, focus on content, experts and channels
- Put the Member Societies, TCs/WGs, events and people in the center
- Use the existing channels of the IFIP Member Societies, TCs/WGs, YIT, IP3, partners and members as multipliers
- Create value for the members: Build up relations, channels, structures on an operative level that last throughout the Celebratory Year
- Think (and coordinate) globally, (enable to) act locally

Mr Wong finished his report by pointing out the message IFIP wants to send out:

- IFIP (and its members) creates positive impacts and benefits to society, by providing a trustworthy, expert and unbiased source of evidence based expert knowledge to government and policy makers.
- IFIP promotes and supports professionalism within the IT sector
- IFIP increases public appreciation for ICT, science and research, by acting as a voice for IFIP enthusiasts and engages its committees, member organizations and their members.
- IFIP generates value for its members and the society as such.

19. Future Meetings

Mr Bramer presented the pattern for IFIP meetings for 2022:

*The German Informatics Society has confirmed its invitation to host the next Board Meeting in Berlin on **March 23rd and 24th 2022** with a preliminary day for committee meetings on March 22nd.*

It is intended that this will be a face-to-face meeting. Should this prove to be impossible, the Board meeting will be held on March 23rd and 24th by videoconferencing.

*Our French member society, SIF, has confirmed its invitation to host the next General Assembly in Lille, France on **September 20th and 21st, 2022**, with preliminary meetings, like TA, MSA, IP3) on **September 19th, 2022**.*

20. Closing of Meeting

Mr Hinchey thanked everybody for attending this virtual General Assembly meeting under these difficult conditions and declared the meeting as closed.