

IFIP General Assembly
Toulouse, France
August 27th–29th, 2004

Report of TC1 on Foundations of Computer Science

Takayasu Ito
(TC1 Chair)

Introductory Remarks

TC1 has been established since January 1st, 1997. The current TC1 Chair is Takayasu Ito (JP), and its secretary is Naoki Kobayashi (JP). The first TC1 meeting organized by T. Ito was held in Berlin on February 26th, 2003, and the second TC1 meeting is to be held in Toulouse on August 22nd, 2004. Main concerns at the Berlin meeting were the financial problem incurred by failures of WCC2002 for TCS2002 invited speakers and need of assessments of activities of the TC and its WGs. Beside these meetings there have been lots of email exchanges among TC1 members; in particular, the first Email meeting was held on June 10–22, 2004, as is reported below.

This report is organized as follows:

1. Meetings
 2. TC1 Membership: Appointments and Changes
 3. Several Issues of TC1: TC1 Homepage, Role Statement, Financial Issues
 4. TCS Conferences: TCS2002, TCS2004, and TCS2006
 5. Working Group Activities
 6. TC Email Meeting on June 10–June 22, 2004
- Appendix: Activity Reports of Working Groups

1. Meetings

The following meetings of TC1 and its WGs have been held/will be held in 2004–2005.

[TC1 Meetings] (2003–2004)

TC1 e-Meeting	June 10 – 22, 2004	Email meeting
TC1 Meeting	August 22, 2004	Toulouse, France
TC1 Meeting	August, 2005	(The place and exact date are not decided yet)

[WG Meetings] (September 2003– 2005)

WG1.1 Meeting	September, 2003	Berlin, Germany
WG1.1 Meeting	June 7–10, 2004	Juan-les-Pins, Cote d' Azur, France
WG1.1 Meeting	June 14–19, 2004	Bedlewo, Poland
WG1.1 Workshp	September, 2004	Schloss Dagstuhl, Germany

WG1.2 Meeting	July 5-9, 2004	Budapest, Hungary
WG1.2 Meeting	July 26-28, 2004	London/Ontario, Canada
WG1.2 Meeting	June 30-July 2, 2005	Milano, Italy
WG1.3 Meeting	June 1-4, 2003	Menorca, Spain
WG1.3 Meeting	March 26, 2004	Poland
WG1.4 Meeting	October 17-19, 2003	Sapporo, Japan
WG1.4 Meeting	July 1-4, 2004	Banff, Canada
WG1.4 Meeting	October 2-5, 2004	Padova, Italy
WG1.6 Meeting	May 31, 2004	Aachen, Germany
WG1.7 Meeting	April 5, 2004	Barcelona, Spain
WG1.7 Meeting	January 11, 2005	Long Beach, California, USA

2. Membership and Officers: Appointments and Changes

There are several changes in TC1 members and WG chairs and members.

2.1 TC1 Members

TC1 Members D. Wood (CA), H. Jurgensen (CA), G. Hotz (DE), Y. Feng (CN) and J. de Bakker (NL) resigned at the end of 2003, and J. van Leeuwen (NL) resigned at the end of July of 2004. It has been informed (from IFIP Representative of South Africa [Prof Basie von Solms]) that A. van der Walt has retired. We express our thanks for their collaborations to TC1 during their TC1 membership; in particular, Prof J. van Leeuwen contributed to TC1 as one of PC Co-Chairs of the first TCS Conference (TCS 2000).

Huimin Lin (CN) is a new TC1 representative from Chinese Institute of Electronics as the successor of Y. Feng. Swiss Federation of Information Processing Societies (SVI/FSI) proposed Uwe Nestmann as their TC1 representative. They were appointed as TC1 members, starting on January 1st, 2004.

J. Baeten (NL) is a new TC1 representative from Nederlands Genootschap voor Informatica (NGI) as the successor of J. van Leeuwen, and he was appointed as a TC1 member, starting on August 1st, 2004. No successor of A. van der Walt has been appointed for the current moment.

The TC1 members are categorized as follows:

- (a) Representatives from IFIP Member Organizations
- (b) Members recommended by TC1 and approved by the relevant IFIP Member Organizations
- (c) Distinguished Fellow members, nominated and approved by TC1.

[N.B.] The category (c) members do not have voting rights.

Currently, Professors **C.A.R. Hoare**, **R. Milner**, **R.O. Rabin** and **L. Valiant** are the Distinguished Fellow members of TC1.

The current TC1 officers and members are as follows:

[Chair] Takayasu Ito (JP)

[Secretary] Naoki Kobayashi (JP)

[TC1 Members]

AR J. Heintz ^(a); AT W. Kuich ^(a); AU P. D. Eades ^(a);
BG B. Sendov ^(a); BR I. Simon ^(a); CA N. Santoro ^(b);
CH U. Nestmann ^(a); CL R. Baeza-Yates ^(a); CN H. Lin ^(a)
CZ J. Gruska ^(a); DE W. Brauer ^(a); DK M. Nielsen ^(a)
ES J. Diaz ^(a); FR M. Nivat ^(a); FR J. Sakarovitch ^(b)
FI A. Salomaa ^(a); GB C. A. R. Hoare ^(c); GB R. Milner ^(c)
GB D. Sannella ^(a); GR N. Missirlis ^(a); GR P. Spirakis ^(b)
HU Z. Esik ^(a); IT G. Ausiello ^(a); IT A. Bertoni ^(b)
IT U. Montanari ^(b); NL J. Baeten ^(a); NL P. van Emde Boas ^(b)
NL G. Rozenberg ^(b); PT. A. Sernadas ^(a); PL J. Blazewicz ^(a)
PL A. Tarlecki ^(b); SI V. Batagelj ^(a); SK B. Rován ^(a)
TH S. Charmonman ^(a); US M. Hinchey (IEEE) ^(a); US D. S. Johnson (ACM) ^(a)
US J. C. Mitchell (ACM) ^(b); US M. O. Rabin ^(c); US J. F. Traub (ACM) ^(b)
US L. G. Valiant ^(c)

<Note> (a) indicates a TC1 representative from an IFIP Member Society.

(b) indicates a member recommended by TC1.

(c) indicates a Distinguished Fellow member of TC1.

WG Chairs are ex-officio members.

2.2 Changes in Working Groups

There have been several changes in Working Groups.

● Changes in WG Chairs

[WG1.1] Prof Henryk Wozniakowski (PL) was appointed as the new Chair of WG1.1 on July 1st, 2004. He is a successor of Prof J. Traub, who founded WG1.1 in 1997 and served 7.5 years as the WG1.1 Chair. Under his chairmanship WG1.1 has been active. We would like to express our thanks for his efforts. BTW, Prof J. Traub remains as a TC1 member and a WG1.1 member.

[WG1.2] No change in WG1.2. Prof D. Wotschke is the WG1.2 Chair, and he is discussing about a new WG chair, since his term has exceeded 6 years---7.5 years (which exceeds two terms limit of IFIP Bylaws).

[WG1.3] Prof J.L. Fiaderio (GB) was appointed as the new Chair of WG1.3 on January 1st, 2004. He is a successor of Prof P.D. Mosses (DK), who founded WG1.3 in 1997. We would like to express our thanks to P.D. Mosses, who organized WG1.3 activities in a nice and fruitful way.

[WG1.4] No change in WG1.4. Prof A. Sharma is the WG1.4 Chair.

[WG1.5] Prof G. Mauri (IT) resigned at the end of 2003 under some confusing situation of WG1.5. He could not report the activity of WG1.5 more than two years because of the confusing circumstances that come from a number of reasons within WG1.5

Under the circumstances of WG1.5 the TC1 Chair has proposed dis-solving WG1.5 at the Technical Assembly in

Cape Town, and his proposal was approved in the Technical Assembly and Council there.

[WG1.6] No change in WG1.6. Prof C. Kirchner is the WG1.6 Chair.

[WG1.7] No change in WG1.6. Prof R. Gorrieri is the WG1.6 Chair.

- Changes in WG Members

[WG1.1] H. Wozniakowski is the new Chair, and the past Chair J. Traub remains a WG1.1 member.

[WG1.2] No change.

[WG1.3] Chair has been changed from P.D. Mosses to J.L. Fiadeiro, and P.D. Mosses will remain as a WG1.3 member. The following membership changes have been approved:

New Members: T. Mossakowski (DE), E. Duval (FR), T. Maibaum (GB)

Resignations: H. Ganzinger (DE), J. Loeckx (DE), J.-P. Jouannaud (FR), A. Sernadas (PT),

E. Wagner (US)

[WG1.4] No change.

[WG1.5] <This WG was dis-solved in March, 2004.>

[WG1.6] No change at the current moment. But WG1.6 is going to propose adding several new members.

[WG1.7] No change in the Chair (R. Gorrieri). The following new members have been approved:

New Members: J. Juriens (DE), J.-J. Quisquater (BE)

2.3 TCS2004 Conference Chair and PC Chairs

- Conference Chair: Jean-Jacques Levy (FR)

- PC Chairs: <Track I> Ernst W. Mayr (DE)

<Track II> John C. Mitchell (US)

3. Several Issues of TC1: TC1 Homepage, Role Statement, Financial Issues

3.1 TC1 Homepage

Since the current TC1 Chair and Secretary have been appointed on January 1st, 2003 they have worked to build up a new TC1 homepage. The current TC1 homepage address is:

<http://www.kb.cs.titech.ac.jp/IFIP-TC1/>

which is maintained by the TC1 Secretary Prof N. Kobayashi. The homepage contains the following:

- A short history of TC1
- AIMS and SCOPE of TC1
- List of TC1 Members
- TC1 Working Groups and links to their homepages
- TC1 Activity Reports (since the TC1 Meeting at Berlin on February 26, 2003)
- Events of TC1 and its WGs
- Links to useful IFIP addresses (including IFIP Homepage, WCC Homepage, IFIP Bulletin, IFIP Statutes & Bylaws)
- Information useful for TC1 Members (including Format of WG Report, Guidelines and Procedures for Applying TC1 Funds)

The homepage will be updated, whenever some new information is provided,

3.2 Role of an IFIP TC1 Member

The role statements of TC Chair and WG Chairs are formed at the IFIP Council in Cape Town. **The role statement of TC representatives of an IFIP Member Society** will be formed at the Council in Toulouse. The relevant TC1 members should follow these role statements. The following statement concerning “Guideline of an IFIP TC1 Member” is a guideline for TC1 members:

<<Guideline of an IFIP TC1 Member>>

- TC1 members are asked to provide information to the Technical Committee about the latest progress on research and education on foundations of computer science in the spirit of AIMS and SCOPE of TC1.
- TC1 members should attend annual TC1 meetings, or send their proxy or apology when they are unable to attend.
- TC1 members should join in and promote TC1 activities, participating to events organized by TC1 and its Working Groups, and they are encouraged and expected to express their opinions and views at TC1 meetings or by use of emails not only as TC1 members but also as the leading scientists in the area of foundations of computer science.
- It is expected that a TC1 representative from an IFIP member society would report on the latest important R&D activities on TCS in his society and nation.
- It is expected that TC1 members would collaborate to WGs to promote their activities, providing advices and suggestions on their research directions, activities and their membership issues.
- It is expected that TC1 members would collaborate in promotion of TC1 activities, hosting TC1 events and sending participants to TC1 events.

3.3 Financial Issues and Guidelines for Applying TC1 Funds

Financial issues of TC1 were not discussed at TC1 before January, 2003; the existence of the TC1 fund and its amount were not disclosed to TC1 members (including the current TC1 Chair). The current TC1 Chair has decided to make TC1 funds open to TC1 members, and he have worked to make up “Guidelines for Applying TC1 Funds” to allow TC1 colleagues (TC1 members and TC1 collaborators) to apply for TC1 funds.

[Guidelines for Applying TC1 Funds]

In order to make use of TC1 Funds clear and open “Guidelines and Procedures for Applying TC1 Funds ” has been formed, and it is announced at the TC1 Homepage. Major points of The GUIDELINES are as follows:

(1)A proposal should contain the following:

- Title of the proposal
- Name of the principal proposer
- Name of the event and its organizer
- Date(s) and place of the event
- Aims and scope of the event
- Reasons and explanations for applying (partial) support of TC1 funds
- Requested amount of support in the proposal, and total budget of the event
- Date that the TC1 decision on the proposal is needed.

(2) A proposal will be reviewed by the TC1 Chair and a couple of TC1 members.

After getting their approvals the proposal will be discussed at TC1 by email. After getting approval of TC1 the proposal will be sent to the IFIP Office for their review. After approvals by TC1 and the IFIP Office the decision on the proposal will be notified to the principal proposer, and then the proposer would contact directly to the IFIP Office to get the approved amount for his proposal. At this phase of getting support of TC1 fund the principal proposer must submit the following:

- Copy of the final proposal.
- Copy of notification of acceptance of the proposal.
- Copy of documents (bills & receipts like hotel bills, payments for airfares & trains, etc.) for all payments to be covered by the TC1 fund.
- Copy of documents related to the proposal, including a copy of invitation letter that explains what & how he will be supported.

The proposer must send these to the IFIP office and the TC1 Chair, keeping their copies by himself.

(3) After finishing the event the principal proposer must submit his report to the TC1 Chair by a deadline specified by the TC chair.

[TC1 funds for 2003 and 2004]

At IFIP GA2003 (Lithuania) the following TC1 funds have been approved:

2003: 4,761 Euro

2004: 3,849 Euro

There was no proposal of applying TC1 fund for the 2003, and there has been no proposal for 2004 yet. Hence, no TC1 fund has been used in 2003 and 2004. This does not mean that TC1 does not need use of TC1 funds. There were expressed several interests in using TC1 fund for some events organized by TC1 members. However, such interests were withdrawn by some strong (and somewhat unreasonable) words from those who were badly affected by failures of WCC2002 (Montreal).

4. TCS Conferences: TCS2002, TCS2004, and TCS2006

TCS conferences organized by TC1 were originally proposed by the current TC1 Chair to increase visibility of TC1 not only within IFIP but also in theory societies in computer science and information technology. The TCS conference TCS 2000 in Sendai was successfully organized.

4.1 TCS 2002

TCS 2002 was organized as a sub-conference of WCC2002 [Conference Chair: G. Boynton]. Because of financial and organizational failures of WCC2002, TCS2002 has been seriously damaged. Some TC1 members have been not only damaged financially but also affected in various manners by the failures of the Organizing Committee of WCC2002.

Financial responsibilities of WCC2002 have been exclusively with CIPS (Canadian Information Processing Society) and its WCC2002 Organizing Committee.

The financial issues incurred by the WCC 2002 Organizing Committee were reported briefly at the TC1 Meeting in Berlin on February 26, 2003 from the past TC1 Chair G. Ausiello (IT) who also served as the Chair of the TCS2002 Steering Committee. There we have had much concern about how invited speakers at TCS 2002 would be treated. Because of lack of information we have decided to discuss the issues at the next TC1 meeting to be held in Toulouse in August, 2004

On March 31, 2003 N. Santoro (Canada), Conference Chair of TCS 2002, mailed a brief report to explain what has happened. He asked use of TC1 fund to reimburse for J. Gruska (an invited speaker of Track (1)), R. Baeza-Yates (PC Chair of Track (1)) and N. Santoro (TCS2002 Conference Chair). Note that TC1 Members were not informed anything about TC1 funds and financial issues of TC1 until the current TC1 Chair is appointed in January, 2003, and also financial issues of TCS2002 were not informed to them until the TC1 meeting in Berlin. In order to discuss the issues raised by N. Santoro the TC1 Chair has requested to N. Santoro to submit the following documents in April 2nd, 2003:

- a detailed report on TCS2002, including a list of participants,
- copies of his mails and letters to invited speakers to explain how they will be supported by IOC of WCC2002 (chaired by G. Boynton).
- receipts of payments (or their copies) of Gruska, Baeza-Yates and Santoro.
- approval and endorsement by G. Ausiello (Chair of the Steering Committee of TCS2002, and the past TC1 Chair),

since members of TC1 and the TCS2002 Steering Committee were not been informed anything on the financial issues of TCS 2002 (including financial support for the TCS2002 invited speakers).

The financial issues incurred by failures of WCC'02 Organizing Committee look very delicate and difficult, since a company created by CIPS to handle financial and organizational issues of WCC2002 had fallen into bankruptcy, and the court hearing of the bankruptcy of the WCC2002 is going on in a Canadian court.

Since April, 2003 N. Santoro, R. Baeza-Yates, J. Gruska, G. Ausiello and W. Brauer have sent many mails of requesting use of TC1 funds for reimbursements for the above three people (Baeza-Yates, Gruska, Santoro) without preparing the documents mentioned above. The TC1 Chair has maintained the following position:

- Reimbursements should be done by the WCC2002 Organizing Committee and CIPS
- TC1 discussions will be started only after the above documents are ready; actually, he has asked N. Santoro to apply TC1 funds, following "Guidelinesa for Applying TC1 Funds" (that is mentioned above and appear at the TC1 Homepage).

Santoro did not submit an actual proposal that follows "Guideline for Applying TC1 Funds".

Gruska and Santoro and Baeza-Yates repeated sending their mails of requesting reimbursements to the TC1 Chair. However, their mails of requesting reimbursements had to be directed to those who promised their travel support to WCC2002 and TCS2002; namely, to the WCC2002 IOC Chair (G. Boynton) and the TCS2002 Chair (N. Santoro).

In particular, J. Gruska has sent several (almost threatening) mails to the TC1 Chair, and moreover he sent several mails not only to insult the TC1 Chair but also to boycott some TC1 activities. This unpleasant situation concerning financial issues incurred by WCC2002 has continued until the IFIP President (Professor Brunnstein) sent an important mail (to all TC1 Members in June, 2004) to clarify the financial issues of WCC2002. However, even after the President's mail Gruska has targeted his assault to the current TC1 Chair without admitting his misunderstanding; that is, he has initiated sendingmails of campaign for forced change of the current TC1 Chair. This kind of irrational insulting mails should not be allowed in a healthy society.

At the Email meeting held on June 10-22 (2004), the deadline of submitting Santoro's proposal of applying for TC1 funds to TCS2002 issues was set as July 27, 2004. However, Santoro did not send his proposal that follow the Guideline of Applying for TC1 Funds. We hope that Santoro and Gruska (and their colleagues) would have a proper understanding on the issues, stopping to send irrational and unreasonable mails.

4.2 TCS 2004

TCS2004 will be held as a sub-conference of WCC2004 in Toulouse. Prof Jean-Jacques Levy (INRIA, France) is the conference chair of TCS 2004, and he is the TC1 representative to the IPC of WCC2004. Prof Ernst W. Mayr (Muenchen, Germany) has served as the PC Chair of Track (1) on Algorithms, Complexity, and Models of Computation. Prof John C. Mitchell (Stanford, US) has served as the PC Chair of Track (2) on Logic, Semantics, Specification, and Verification.

They received 65 submissions to Track (1), and 82 submissions to Track (2). Among these submissions, 22 contributed papers for Track (1) and 24 contributed papers for Track (2) have been accepted for presentations at TCS2004. In addition, there are four invited talks:

- 1) The tPI (tRNA Pairing Index), a Mathematical Measure of Repetition in a (Biological) Sequence, by Gaston Gonnet (ETH Zurich, Switzerland)
- 2) Stability of Approximation in Discrete Optimization, by Juraj Hromkovic (RWTH, Aachen, Germany)
- 3) Towards a Broader Theory of Mobile Processes, by Robin Milner (Cambridge Univ., UK)
- 4) A Decidable Analysis of Security Protocols, by Michael Rusinowitch (INRIA Lorraine, France)

So far, TCS 2004 has been nicely organized by the efforts of Prof Levy and his collaborators; we can expect a big success of TCS 2004 in Toulouse.

4.3 TCS 2006

WCC 2006 was planned in Israel. However, according to the latest mail from the IFIP President WCC2006 in Israel has been cancelled by IPA (Information Technology Association of Israel). Now it is in a stage of Call for Proposal of WCC2006 (or the next WCC).

[About TCS 2006] At the Council and TA Meeting held at Cape Town the TC1 Chair had told the IPA representative that TC1 would collaborate to have TCS2006 as a sub-conference of WCC2006 in Israel if IPA could recommend some appropriate researcher who would become a conference chair of TCS2006. However, there was no proposal from the IPA representative by the time of the TC1 Email meeting held on June 10-22, 2004. Note that the TCS conferences have a tradition that its conference chair comes from the nation where a TCS conference is to be held.

Because of the difficulty of organizing TCS2006 in Israel it has been suggested to organize TCS2006 in Greece. However, a TC1 member from Greece (Prof P. Spirakis) has informed that there would be a conflict with another international conference in CS that has been decided already. The issues of the next TCS conference are of a topic to be discussed at the TC1 meeting in Toulouse.

There would be at least two possibilities:

- To have the next TCS conference as a sub-conference of the next WCC (when it is decided).
- To organize the next TCS conference independently of WCC; for example, TCS2007 in Greece or elsewhere.

5. Working Group Activities

The activities of Working Groups form the most important parts of TC1 activities, together with TCS Conferences. Currently, TC1 has six working groups, and their activity reports are attached in **Appendix** .

Below attached a summary of WG activities, together with some brief comments of the TC1 Chair.

[WG1.1](Chair: H. Wozniakowski)

Prof Henryk Wozniakowski was appointed as the WG Chair on July 1st, 2004 as the successor of Prof J. Traub. J. Traub established this WG in 1992 as the first WG of SG14 (the predecessor of TC1), and he served as the WG1.1 Chair after establishment of TC1 on January 1st, 1997 until the end of June, 2004. Altogether, Prof Traub served 12.5 years as the WG1.1 Chair. We would like to express enthusiastic efforts of J. Traub, conducting WG1.1. This WG continues meetings regularly, having conference sessions and workshops every year since its establishment in 1992. Besides the area of Continuous Algorithms and Complexity this WG is expanding its activities to cover a new area of continuous quantum computing. In 2004 two meetings have been held in June, and another will be in September. It is hoped that the interesting activities of this WG will be expanded so as to get a wider popularity in the CS community. This would be an important role of the new WG Chair.

[WG1.2](Chair: D. Wotschke)

This WG has been one of the most active WGs, organizing its WG meetings and workshops regularly and publishing selected papers of workshops as special issues of journals every year. In 2002–2004 particular emphasis of the WG has been placed on the descriptonal complexity of bio-inspired computing models and the relationship between descriptonal complexity and software reliability. In 2004 one formal meeting and one informal meeting were held in July.

The number of WG1.2 members is more than 100, having many distinguished scholars. It is not clear if all of them are active or not. If only a limited number of WG members are active, it may be good to assess and restructure WG1.2.

One urgent problem of the WG is need of finding a new WG Chair, since the current Chair is in its third term, exceeding its term limit regulated by the IFIP Bylaws..

[WG1.3](Chair: J.L. Fiadeiro)

J.L. Fiadeiro has been appointed as the new WG Chair on January 1st, 2004. During the chairmanship by the past Chair P.D. Mosses this WG has actively worked on “CASL: the Common Algebraic Specification Language”, publishing two volumes of Springer LNCS-IFIP Series; a User Manual, and a Reference Manual. This WG has organized its meetings every 9 months regularly, and they are attended well by WG members and observers. Also, the WG collaborates in organizing workshops on formal specification. It is expected that the excellent activities of this WG would be continued under the leadership of the new WG Chair.

The first WG1.3 meeting under the new WG chair was held on March 26, 2004, and in 2005 two meetings will be held; one in January, and another in September. The WG is expanding its activities in several directions; one is to incorporate the co-algebraic approach, which includes organizing CALCO (Conference on Algebra and Coalgebra in Computer Science) in 2005 with partial support of TC1.

Finally, a sad news: Professor Harald Ganzinger (WG1.3 Member Emeritus) passed away on June 3rd, 2004.

[WG1.4](Chair: A. Sharma)

The Chair has reported that Professor Carl Smith (the founding chair of WG1.4) passed away on July 21st, 2004 with brain cancer. It is our deep regret to know the death of Professor Smith who had served actively for TC1. A special issue is planned in Journal of Computer and Systems Science in memory of Professor Carl Smith.

Activities of this WG have been steadily continued in connection with ALT (International Conference on Algorithmic Learning Theory) and COLT (International Conference on Learning Theory). The major event in 2004 is ALT'04 (The 15th International

Conference on Algorithmic Learning Theory) to be held in Padova in October, 2004.

The WG is currently working on reorganization of the WG; finding the new chair, and a new steering committee for the WG.

[WG1.5] WG1.5 on Cellular Automata and Machines was dis-solved at the Technical Assembly (Cape Town) in March, 2004.

[WG1.6](Chair: C. Kirchner)

This WG meets regularly at the time of RTA (International Conference. on Rewriting Techniques and Applications).

This year's RTA was held as a part of RDP (Federated Conference on Rewriting, Deduction, and Programming) in May, 2004.

The WG meeting was held on May 31st, 2004 in Aachen, Germany.

1) WG1.6 is interested in organizing a summer school on rewriting; it might be organized as an IFIP summer school.

2) Two events in 2004

One is RDP in Aachen in May, 2004, and another is ESSLLI 2004 held in Nancy on August 2–20, 2004.

RTA2004 was held as a part of RDP, having 73 participants among 108 participants of RDP.

{The next RTA will be held in Nara (Japan) on April 19–23, 2005.}

3) One of the important activities of the WG has been the dissemination of the latest important results in the domain of WG1.6. This activity has been continued as is reported in the report of WG1.6 Chair (Prof C. Kirchner. Also, WG1.6 reports a short survey of teaching on rewriting, and it has initiated discussions on Challenges for Rewriting.

WG1.6 has been well organized under the leadership of the Chair (Prof C. Kirchner), and it has been actively carried in conjunction with RTA.

[WG1.7](Chair: R. Gorrieri)

This WG is also active in organizing several workshops every year and in publishing some of their proceedings. Two new WG members (Jan Juriens (DE), Jean-Jacques Quisquater (BE) are appointed, and three members (B. Jonsson, U. Maure, Y. Moses) resigned. The WG meeting was held on April 5, 2004. Two workshops (WITS in Barcelona in April, and WISP in Bologna in June) were held. FAST (Workshop on Formal Aspects in Security and Trust) will be held as a workshop of WCC2004 in Toulouse.

Two workshops closely related to WG1.7 will be held in 2004; SecCo and FOSAD

The WG looks active and healthy in building up the group. However, its membership is too restricted; only from some European countries and US. Since the Security Issues in the internet society are rapidly increasing its importance in the global world of information and networking, it is advised for the WG1,7 to expand its membership for other areas like Asia where some excellent research is going on, and it is better to encompass widely the research activities on theoretical aspects of security issues.

6. TC1 Email Meeting on June 10–June 22, 2004

TC1 has organized its meeting once a year since it was established in January, 1997. However, participats of TC1 members to the past annual TC1 meetings have been small (4–7 participants); for example, five TC1 members at the 2002 meeting in Montreal, and four TC1 members at the 2003 meeting in Berlin. In order to get more participation of TC1 members to discuss important issues of TC1, the current TC1 Chair has decided to have the first Email meeting in 2004. Originally, the Email meeting was planned in March, but it was postponed since the TC1 Chair had fallen into pneumonia.

The first Email meeting was held on June 10–June 22, 2004 under the chairmanship of the TC1 Chair. The Email meeting was very useful in deepening mutual understanding on a number of issues, having 24 members participated in the Email meeting.

Also, during the Email meeting the IFIP President, Professor Brunnstein, has kindly mailed to clarify the financial issues of WCC2002 in response to J. Gruska's mail, whose copy was sent by him to Professor Brunnstein.

Professor Brunnstein's mail has clarified that financial responsibility for paying expenses of invited speakers and committee members of WCC2002 is exclusively with the organizer of WCC2002. So, TC1 and the TC1 Chair are not responsible for financial losses of N. Santoro, R. Baeza-Yates and J. Gruska, who sent many unpleasant and irrational mails, mentioning responsibility of TC1 and assaulting the current TC1 Chair, together with their European collaborators. I believe that Professor Brunnstein's mail has ceased very unpleasant issues created by WCC2002 and amplified by these people (in particular, J. Gruska and N. Santoro). Note that all TC1 members are very sympathetic about losses of R. Baeza-Yates and J. Gruska. So, we hope that some good compensation for them will be done in near future.

We give a brief report on TC1 Email meeting as below.

[Brief Report of TC1 Email Meeting on June 10–June 22, 2004]

Introduction

On May 31st, 2004 the TC1 Chair proposed to have the first TC1 Email meeting on June 10 – June 22, 2004. The Agenda of the Email meeting was as follows:

Agenda:

1. Welcome to Email Meeting
2. Short Report on IFIP Council and TA at Cape Town: Issues related to TC1
3. Dates and Place of the next TC1 Meeting
4. On TC1 Membership
5. On Election of the next TC1 Chair for the next term (2006 – 2008)
6. On TC1 Funds for 2005
7. Reports from Working Groups
8. On Proposals and Suggestions of New WGs and SIGs
9. On TCS2006 at Israel
10. On TCS2004 at Toulouse
11. On TCS2002 at Montreal
12. Other Issues
13. Next TC1 Meeting and Next Email Meeting

We started our first TC1 Email Meeting on June 10. For each of the Agenda items the TC1 Chair supplied some explanations and comments to give some background information for Email discussions. Most of discussions and comments were mailed through the TC1 mail address tc1@kb..., but some mails were just mailed to the Chair.

1. Some issues mentioned in TC1 Chair's Welcome message

- a) The Email meeting has started without setting almost any bureaucratic rule, but it would be good to discuss whether this style of Email meeting is good or not.
- b) The following job descriptions have been adopted at IFIP Council and Technical Assembly at Cape Town :

* IFIP Technical Committee Chair: Generic: Generic Job Description

* IFIP Working Group Chair: Generic Job Description

Both of them are accessible at the following TC1 Homepage: <http://www.kb.titech.ac.jp/IFIP-TC1/>

At the Technical Assembly the following draft proposal was also submitted:

* IFIP TC Representatives to TC's Responsibilities

There were some opinions that in view of the past and current TC1 activities this proposal is too strong or unrealistic. Each TC1 representative of an IFIP Member Society has been asked to read carefully the draft proposal, and he has been asked to submit his comments and proposal to revise the above draft.

<<By the time of writing this report there have been no concrete proposal nor comments yet.>>

2. Issues related to Agenda Item 2 (Report on IFIP Council and TA at Cape Town)

Professor Montanari has expressed his interest in IFIP Summer School, and also he asked if there is any merit of organizing such a school under IFIP. TC1 Chair has mentioned as follows: IFIP is an international organization with a long and well-known history in the world of information technology. IFIP Summer School would be an interesting and attractive one, in particular, in Europe and in developing countries. However, it would be difficult for IFIP to provide any significant financial support for an IFIP Summer School, since IFIP has suffered a BIG financial loss, incurred by failures of WCC2002 at Montreal.

The issue of WCC2006 (consequently, TCS2006) was reported, and it will be discussed under Item 9.

3. Dates and Place of the next TC1 Meeting

The next TC1 Meeting will be held as follows:

Dates: August 21st (Sat)--22nd (Sun), 2004

Place: Toulouse, France

<<N.B.>>However, because of difficulty of finding a meeting room for these two days, the date has been changed as

Time&Date: 10:00—18:30, August 22nd (Sun), 2004

Place: Room Ariane 1, Congress Centre, Toulouse.

Professor J.-C. Laprie (WCC2004 Congress Chair) has kindly arranged the meeting room. Many thanks to Professor Laprie for his kind arrangements and collaboration for TC1.>>

4. On TC1 Membership

Membership status of some TC1 members:

I. Simon (BR): Category (a) Member

N. Santoro (CA): He hasn't received an approval from CIPS yet, so that his membership is still in pending according to the IFIP Bylaws..

A. van der Walt (ZA): He retired, and no member has been proposed from South Africa.

J. van Leeuwen (NL): He resigned at the end of July, and J. Baeten is his successor from Netherlands.

5. On Election of the next TC1 Chair for the next term (2006—2008)

The first term of the current TC1 Chair will terminate at the end of 2005. We need to make up our procedures and schedules for election of the next TC1 Chair for 2006—2008. According to the IFIP Bylaws,

- a) Who is eligible for election? → Category (a) member and Category (b) member
- b) Who is eligible for voting? → Members of Category (a) & (b) and WG Chairs

In the case of the past TC1 Chair (Prof Ausiello) he expressed his wish to serve another term (the second term) at the TC1 meeting held at Atlanta; this was supported by European attendees, and no objection from other attendees.

The current Chair prefers an open style for election of the next Chair.

Prof Ausiello (the past TC1 Chair) has proposed to form a small panel (three people) for finding candidates. His proposal has been seconded by a number of TC1 members (mostly, European members).

However, taking into account failures of the panel formed for election held in 2002 (the panel members were G. Ausiello (TC1 Chair at that time), J. Gruska, and T. Ito), the current TC1 Chair has proposed the following:

- 1) Panel consists of five members (instead of three members), which consists of
 - (1) TC1 Chair; (2) Past TC1 Chair, (3) at least one from European countries,
 - (4) at least one from ACM and IEEE, (5) at least one from other areas.
- 2) Open style of nomination
Panel chair sends Call for Nomination to all TC1 members.
- 3) Other rules in nomination and basic selection criteria (or, procedures) should be formed within TC1 or within the panel; in the latter case such rules and criteria should be announced to TC1 members.

So far there has been no objection to form a small panel for finding candidates of the next TC1 chair. This issue of election of the next TC1 Chair for 2006—2008 will be discussed at the TC1 meeting in Toulouse.

6. On TC1 fund for 2005

There was no proposal on TC1 fund for 2005 during the Email meeting. However, soon after the meeting there was a proposal from J. Fiadeiro (WG1.3 Chair) for travel support (1000 Euro) of an invited speaker of CALCO in 2005. There have been no objection from TC1 members, and it will be discussed at the TC1 meeting in Toulouse to fix approval.

7. Reports from Working Groups

In this April there were some membership changes at WG1.7; the following are new appointments at WG1.7:

R. Gorrieri has been re-elected and appointed for his 2nd term (2004-2006).

Jan Juerjens (DE) and Jean-Jacques Quisquater (BE) have been appointed as new WG1.7 members on January 1st, 2004.

C. Jonsson (SE), U. Maurer (CH) and Y. Moses (IL) have left from WG1.7.

{Thanks for their collaboration to WG1.7.}

The WG1.3 Chair (J. Fiadeiro) informed a sad news, the death of Prof H. Ganzinger. We express our deep sorrow for his death.

<<More details of WG activities can be found in Appendix I.>>

8. On Proposals and Suggestions of New WGs

(1) A mandatory step for creation of a new Working Group

The following step was proposed by the TC1 Chair, and it has been adopted as the mandatory step in creation of a new Working Group in TC1.

“A principal proposer who proposes a new Working Group will be requested to attend a TC1 meeting to give 30—40 min talk to explain details of his proposal including AIMS&SCOPE of WG, candidate WG members with their short CVs, its activity plan”.

When the proposal is accepted the principal proposer will be usually appointed as its WG Chair, so that it is important that the principal proposer knows his roles and responsibilities, reading Job Description of WG Chairs and IFIP Bylaws.

(2)On proposals of new WGs

Last year there were three suggestions of creating new WGs. But only a proposal will be submitted at the TC1 meeting in Toulouse. The proposal will be on Process Algebra and Calculi. Some preliminary comments from TC1 members have been forwarded to the proposer, and also the TC1 Chair has made some advices to the proposer to revise and improve his proposal.

9. On TCS2006

It had been asked whether TC1 can collaborate to WCC2006 in Israel, organizing TCS2006 as a sub-conference of WCC2006. At Technical Assembly (Cape Town) most of TC Chairs expressed some difficulty in collaborating to WCC2006 in Israel because of safety and security in Israel and the Middle East. The TC1 Chair told the IFIP Representative from IPA-Israel that TC1 will collaborate to WCC2006 if IPA proposes a candidate of TCS2006 Chair from Israel and his proposal of the Chair is accepted by TC1. There was no proposal from IPA by June 10—the first day of the Email meeting. So, we have decided not having TCS2006 in Israel.

[TCS2006 in Greece]

TC1 Chair has suggested TCS2006 in Greece, since there was “no proposal” from IPA. A number of TC1 members have supported this suggestion. However, two new mails have come:

*IPA-Israel has cancelled WCC2006 (according to the latest mail from the IFIP President).

*TCS2006 in Greece will be some conflict with another conference planned in Greece in 2006.

Taking into account these circumstances it would be better to reconsider how to do for the next TCS conference.

The issue of the next TCS conference (next to TCS2004) will be discussed at TC1 meeting in Toulouse.

10. On TCS2004

Professor J.-J. Levy (TCS2004 Conference Chair), Professor E. Mayr (PC Chair of Track 1) and Professor J. Mitchell (PC Chair of Track 2) have worked successfully to get the following submissions for TCS2004 in Toulouse.

(no of accepted) / (no of submissions)

Track-1: 22 / 65; Track-2: 24 / 82

Also, Prof Levy was promised financial support from INRIA. We would like to express our sincere thanks for his efforts.

11. On TCS2002

The issues incurred by failures of WCC2002 at Montreal have not been resolved and settled yet, and it is under the bankruptcy court hearing in Canada. J. Gruska (who was an invited speaker of TCS2002) sent again an angry message to the TC1 Chair —an irrational message— concerning his reimbursement issue promised by Canadian Organizers of WCC2002 and TCS2002, cc'ing his message to the IFIP President, Professor Brunnstein. Professor Brunnstein has clarified that **according to contracts and IFIP regulations, financial responsibility for paying expenses of invited speakers and committee members is EXCLUSIVELY with related organizer, in case of WCC-2002 with CIPS**. As is seen from his mail TC1 is NOT responsible in any financial aspect of invited speakers and committee members of TCS2002 (a sub-conference of WCC2002).

So-called, reimbursement issues of R. Baeza-Yates and J. Gruska have been serious issues at TC1 more than a year. Together with N. Santoro (who is one of the most responsible persons for the issues) they repeatedly mailed to TC1 and its Chair, saying that TC1 should reimburse their expenses promised by the Organizers of WCC2002 and TCS2002.

Very regretfully, their mails have hampered some TC1 activities, in particular, issues related to use of TC1 funds. All TC1 members have been very sympathetic to R. Baeza-Yates and J. Gruska. However, nothing to do until the bankruptcy court hearing finishes. To take any other steps it is desired to have the following:

N. Santoro submit his petition or proposal, together with a reasonable report on TCS2002.

In addition they express some apologies about sending their irrational mails to TC1 and the TC1 Chair.

In order to clear up the issue, during the first Email meeting we requested N. Santoro to submit a reasonable proposal by **July 27, 2004**, if he thinks that he needs to get help from TC1 funds for reimbursement issues of R. Baeza-Yates and J. Gruska. {Last year (On July 27, 2003) the TC1 Chair mailed a similar request to Santoro, but there has been no proposal from Santoro.}

<<N. Santoro has not submitted by the above date (July 27, 2004) a proposal to resolve the issue. We hope that he attends the TC1 Meeting to be held in Toulouse, regardless of that he submits a proposal or not, to explain on TCS2002 and related issues in details and to resolve the issues in his responsibility.

12. Other Issues

(1) On IFIP Information Bulletin

IFIP Information Bulletin is an important official publication of IFIP. However, Information Bulletin 2004 contains lots of flaws in the list of TC1 members. They should be corrected, as in the TC1 Homepage.

(2) IFIP Publisher and Royalties

[IFIP Publisher]

The current IFIP official publisher has been Kluwer. Springer and Kluwer are now under a same management in a company. So, IFIP has established a new contract with Springer.

(3) On Ad Hoc Group

In February the TC1 Chair proposed to organize Ad Hoc Group to discuss and handle two urgent issues: issues

on TCS2002 reimbursement issues and issues on TCS2004.

*TCS2004 issues were nicely resolved by Prof Levy with help of Profs Mayr and Mitchell and with financial support from INRIA. So, it has turned out that there is no need of discussing TCS2004 issues.

*TCS2002 issues: When we were about to discuss TCS2002 issues the TC1 Chair received a boycotting mail from J. Gruska, so that we stopped discussing the issues.

(4)On Gruska's proposal

In Gruska's mail of June 12 he wrote two issues, one of which is concerned to financial issue (so-called reimbursement issues) incurred by WCC2002 and TCS2002. This issue was replied by Professor Brunnstein (IFIP President), to whom Gruska cc-ed his mail. It has been clarified by Professor Brunnstein that the reimbursement issues are the issues that must be handled by the organizers of WCC2002 (G. Boynton) and TCS2002 (N. Santoro), but not by the TC1 Chair. Also, Gruska wrote "I am really angry that you keep writing that in connection with my IFIP'02 Congress participation IFIP owes me 200\$ and not 2000\$ as it should be," The amount 200\$ is the amount informed from N. Santoro (TCS2002 Conference Chair) as he knows. His anger should be directed to N. Santoro but not to the TC1 Chair.

Gruska's anger (that comes from his misunderstanding) has made him to raise another issue in his mail as follows:

"A committee should be proposed to suggest new IFIP TC1 chairman as soon as possible and to find ways that the new TC1 chairperson starts his/her chairmanship as soon as possible."

Since his anger comes from his misunderstanding concerning reimbursement problems incurred by WCC2002 and TCS2002, his proposal is entirely irrational. He suggests that his requests and behaviors are of usual standards in European scientific community. In order to implement his unreasonable requests he has suggested his actions of getting collaboration of his close European friends.

Anyway, it would be free for him and his friends to take any action whatever they like. However, we hope that they will take reasonable and respectable actions for IFIP and TCS community as distinguished theoretical computer scientists (at least in their nations).

Anyway, his proposal will be included as an agenda item for discussion at the TC1 Meeting in Toulouse.

13.Next TC1 Meeting and Next TC1 Email Meeting

[Next TC1 Meeting]

The next TC1 meeting will be held as follows:

Dates: August 21st and 22nd, 2004

Place: Toulouse, France

<<Note that the the above have been changed as follows:

Time&Date: 10:00—18:30, August 22nd (Sun), 2004

Place: Room Ariane 1, Congress Centre, Toulouse, France

[Next TC1 Email Meeting] <<To be discussed at the TC1 Meeting in Toulouse>>

APPENDIX : Activity Reports of Working Groups

WG 1.1 on Continuous Algorithms and Complexity

[Chair] Henryk Wozniakowski; [Secretary] Arthur G. Werschulz

We had so far two major meetings in 2004. The first one was the International Conference MC²QMC (Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing) in Juan-les-Pins, Cote d'Azur, France, in June 7-10. Two plenary talks by Art Owen and Henryk Wozniakowski, four special sessions on tractability of multivariate problems, digital nets and QMC integration, QMC algorithms, and quantum computing, as well as many contributed talks were devoted to the research topics of our group.

The second meeting was on Modern Computational Methods in Applied Mathematics in Bedlewo, Poland, in June 14-19. A substantial part of this conference was on continuous algorithms and complexity with seven plenary talks by Stefan Heinrich, Fred Hickernell, Harald Niederreiter, Erich Novak, Ian Sloan, Grzegorz W. Wasilkowski and Arthur W. Werschulz.

Looking ahead to the second part of 2004, there will be a workshop at Schloss Dagstuhl, Germany in September, 2004. This workshop will be limited to about 45 leading researchers chosen from all over the world. Main topics of this workshop will be tractability of multivariate problems and quantum computing.

The members of WG 1.1 stay in close touch via CAC-NET. This is an electronic newsletter which is sent to over 250 people.

WG 1.2 on Descriptive Complexity

(Date: July 31, 2004)

Chair: Prof. Detlef Wotschke

University of Frankfurt, Frankfurt, Germany

Vice-Chairs: Prof. Helmut Juergensen

University of Potsdam, Germany,

University of Western Ontario, London, Canada

Prof. Chandra M. R. Kintala

Stevens Institute of Technology, Hoboken, USA

Secretary: Bettina Sunckel

University of Frankfurt, Frankfurt, Germany

Overview of WG activities:

Descriptive complexity has historically been a multidisciplinary area of study, with contributions from automata theory, computational complexity, cryptography, information theory, probability, statistics, pattern recognition, machine learning, computational learning theory, computer vision, neural networks, formal languages and other fields. The aims of the working group are therefore to promote research in all aspects of descriptive complexity through conferences, publications, and more informal means of scientific interaction such as electronic news groups. In 2002-2004 particular emphasis was and is being placed on the descriptive complexity of bio-inspired computing models and the relationship between descriptive complexity and software reliability.

Meetings of WG: (List of WG meetings held in 2003 - 2005)

A formal WG 1.2 meeting was held at the occasion of DCFS'2003 -International Workshop on Descriptive Complexity of Formal Systems, Budapest, Hungary, July 12-14, 2003. An informal (only consultation, no votes taken) WG 1.2 meeting was held in conjunction with the International Workshop "Grammar Systems Week 2004", Budapest, Hungary, July 5-9, 2004.

A formal WG 1.2 meeting was held at the occasion of DCFS'2004 -International Workshop on Descriptive Complexity of Formal Systems, London/Ontario, Canada, July 26 - July 28, 2004.

The next informal (only consultation, no votes taken) WG 1.2 meeting will be held in conjunction with one of the next workshops organized by WG 1.2 during the next 10 months or so.

The next formal WG 1.2 meeting will be held at the occasion of DCFS - International Workshop on Descriptive Complexity of Formal Systems, Milano, Italy, June 30 - July 02, 2005.

Changes in WG Membership: None

WG Activities:

Descriptive complexity has historically been a multidisciplinary area of study, with contributions from automata theory, computational complexity, cryptography, information theory, probability, statistics, pattern recognition, machine learning, computational learning theory, computer vision, neural networks, formal languages and other fields. The aims of the working group are therefore to promote research in all aspects of descriptive complexity through conferences,

publications, and more informal means of scientific interaction such as electronic news groups.

Furthermore the WG tries to promote interaction and the exchange of information across traditional discipline boundaries and to provide a point of contact for all researchers in all disciplines interested in descriptonal complexity and its applications.

The scope of the working group encompasses all aspects of descriptonal complexity, both theory and application. These aspects include but are not limited to

- descriptonal complexity of formal systems and structures
- various measures of descriptonal complexity of automata, grammars, languages and of related systems
- trade-offs between descriptonal complexity and mode of operation
- circuit complexity of Boolean functions and related measures
- succinctness of description of (finite) objects
- descriptonal complexity in resource-bounded or structure-bounded environments
- structural complexity
- descriptonal complexity of formal systems for applications (e.g. software reliability, software and hardware testing, modelling of natural languages)
- descriptonal complexity aspects of nature-motivated (bio-inspired) architectures and unconventional models of computing

WG Events:

Events held (2002 - 2004):

- DCFS'2002 - International Workshop on Descriptonal Complexity of Formal Systems, London, Ontario, Canada, August 21-24, 2002, organized by Prof. Juergen Dassow, Prof. Helmut Juergensen and Prof. Detlef Wotschke
Number of participants: 38
Publication:
 - Conference Proceedings (University of Western Ontario, edited by Helmut Juergensen, Juergen Dassow, Detlef Wotschke)
 - Special issue in Journal of Automata, Languages and Combinatorics, editors: Juergen Dassow, Helmut Juergensen and Detlef Wotschke, will appear in Summer 2004
- DCFS'2003 - International Workshop on Descriptonal Complexity of Formal Systems, Budapest, Hungary, July 12-14,2003, in cooperation with DLT'2003, organized by Prof. Csuhaaj-Varju and Prof. Detlef Wotschke
Number of participants: 35

Publication:

- Conference Proceedings (Computer and Automation Research Institute (SZTAKI) of the Hungarian Academy of Sciences (MTA), edited by Erzsebet Csuhaj-Varju and Detlef Wotschke)
- Special issue of selected papers in TCS, editors: Erzsebet Csuhaj-Varju and Detlef Wotschke, will appear in 2004
- International Workshop "Grammar Systems Week 2004", Budapest, Hungary, July 5-9, 2004, (in cooperation with the European Molecular Computing Consortium), organized by Prof. Csuhaj-Varju

Number of participants: 37

Publication:

- Conference Proceedings (Computer and Automation Research Institute (SZTAKI) of the Hungarian Academy of Sciences (MTA), edited by Erzsebet Csuhaj-Varju and Gyorgy Vaszil)
- Special issue of selected papers in international journal (to be determined), editor: Erzsebet Csuhaj-Varju, will appear in 2005
- DCFS'2004 - International Workshop on Descriptive Complexity of Formal Systems, London/Ontario, Canada, July 26 -July 28, 2004, organized by Prof. Lucian Ilie and Prof. Detlef Wotschke

Number of participants: 55

Publication:

- Conference Proceedings (University of Western Ontario, Vol. No. 619, edited by Lucian Ilie and Detlef Wotschke)
- Special issue of selected papers in International Journal of Foundations of Computer Science, editors: Lucian Ilie and Detlef Wotschke, will appear in Summer 2005

Future events:

- DCFS'2005 - International Workshop on Descriptive Complexity of Formal Systems, Milano, Italy, June 30 - July 02, 2005, organized by Prof. Giovanni Pighizzini and Prof. Detlef Wotschke

Publication:

- Conference Proceedings (University of Milano, edited by Giovanni Pighizzini and Detlef Wotschke)
- Special issue in Journal of *Automata, Languages and Combinatorics*

Planned events:

- International Workshop on Descriptive Complexity and Mathematical Linguistics,

planned for Spring 2005

- International Workshop on Kolmogorov Complexity and its Applications, planned for early 2005
- DCFS'2006 - International Workshop on Descriptive Complexity of Formal Systems, July or August 2006, probably in North America

Related events in 2003 - 2005:

- DLT'2003 - 7th International Conference on Developments in Language Theory, Szeged, Hungary, July 7 - 11, 2003
- CIAA'2003 - 8th International Conference on Implementation and Application of Automata, Univ of California at Santa Barbara, California, USA, July 16 - 18, 2003
- CIAA'2004 - 9th International Conference on Implementation and Application of Automata, Queen's University, Kingston, Ontario, Canada, July 22 - 24, 2004
- DLT'2004 - 8th International Conference on Developments in Language Theory, Auckland, New Zealand, December 2004
- DLT'2005 - 9th International Conference on Developments in Language Theory, Palermo, Italy, July 2005
- CIAA'2005 - 10th International Conference on Implementation and Application of Automata, Nice, France, July 2005

Publications:

- 1) A selection of papers of
DCAGRS'99 - Descriptive Complexity of Automata, Grammars and Related Structures, Magdeburg, Germany, July 1999, which was held by WG 1.2, appeared as a special issue in
Journal of Automata, Languages and Combinatorics, Vol. 5, No.3, Editors: J. Dassow and D. Wotschke, Otto-von-Guericke-Universitaet Magdeburg, 2000.
- 2) A selection of papers of
DCAGRS'2000 - Descriptive Complexity of Automata, Grammars and Related Structures, London, Ontario, Canada, July 2000, which was held by WG 1.2, appeared as a special issue in
Journal of Automata, Languages and Combinatorics, Vol. 6, No. 4, Editor: H. Juergensen, Otto-von-Guericke-Universitaet Magdeburg, 2001.
- 3) A selection of papers of
DCAGRS'2001 - Descriptive Complexity of Automata, Grammars and Related Structures, Vienna, Austria, July 2001, which was held by WG 1.2, appeared as a special issue in
Journal of Automata, Languages and Combinatorics, Vol. 7, No. 4, Editors: J.

Dassow and D. Wotschke, Otto-von-Guericke-Universitaet Magdeburg, 2002.

- 4) A selection of papers of
DCFS'2002 - Workshop on Descriptive Complexity of Formal Systems, London,
Ontario, Canada, August 2002, which was held by WG 1.2,
will appear as a special issue in
Journal of Automata, Languages and Combinatorics, Editors: Helmut Juergensen,
Juergen Dassow and Detlef Wotschke, Summer 2004.
- 5) A selection of papers of
DCFS'2003 - Workshop on Descriptive Complexity of Formal Systems, Budapest,
Hungary, July 12-14, 2003, which was held by WG 1.2,
will appear as a special issue in
Theoretical Computer Science, Editors: Erzsebet Csuhaj-Varju and Detlef
Wotschke, 2004.
- 6) A selection of papers of
International Workshop "Grammar Systems Week 2004", Budapest, Hungary, July
5-9, 2004, which was co-organized by IFIP WG 1.2,
will appear as a special issue in
an international journal (to be determined), Editor: Erzsebet Csuhaj-Varju,
2005.
- 7) A selection of papers of
DCFS'2004 - Workshop on Descriptive Complexity of Formal Systems,
London/Ontario, Canada, July 26-28, 2004, which was held by WG 1.2,
will appear as a special issue in
International Journal of Foundations of Computer Science, Editors: Lucian Ilie
and Detlef Wotschke, Summer 2005.

Comments on Status of WG:

The IFIP WG 1.2 has been developing extremely well over the last few years. We just completed a workshop together with our annual meeting in London, Ontario, which was very successful. It was attended by 55 people, contained 8 invited presentations and 15 submitted papers which had passed careful screening by an internationally renowned program committee consisting of 22 members.

One sign of the external recognition which the annual DCFS workshop organized by IFIP WG 1.2 has received is the fact that the three international journals

- JALC (Journal of Automata, Languages, and Combinatorics)
- IJFCS (International Journal for Foundations of Computer Science)
- TCS (Theoretical Computer Science)

have expressed interest in publishing special volumes of selected papers of DCFS. It was agreed that these three journals will publish special volumes of selected papers on an alternating basis.

Next to its regular topics, WG 1.2 is currently paying particular attention to descriptonal complexity of grammar and related systems and, as its next projects, will focus on the descriptonal complexity of membrane computing, quantum computing and mathematical linguistics (Chomsky's minimalist principle).

WG1.3 on Foundations of System Specification

[Chair] José Luiz Fiadeiro; [Secretary] Christine Choppy

Overview of WG activities:

The primary activities of WG1.3 since January 2004 concerned:

- CALCO (Conference on Algebra and Coalgebra in Computer Science)
- CASL (Common Algebraic Specification Language);
- CMCS (Conference on Categorical Methods in Computer Science)
- WADT (Workshop on Algebraic Development Techniques)

Meetings of WG:

- * Barcelona (Spain), 26 March 2004

Changes in WG Membership:

We are very sad to report that Professor Harald Ganzinger, member emeritus, passed away on June 3.

WG Activities:

- * The CASL book was published by Springer as two volumes of LNCS (IFIP Series): a User Manual (XIII+240 pages, January 2004) and a Reference Manual (XVIII+528 pages, March 2004), both with accompanying CD-ROMs.
- * A committee of WG1.3 members met on March 30 at UPC in Barcelona, during the ETAPS Conference, for a one-day open meeting in which five CASL extensions were presented and discussed. The review committee included the following members: Didier Bert, Rolf Hennicker, Tom Maibaum, Jose Meseguer (Chair), Peter Padawitz, Carolyn Talcott. The committee produced a report with recommendations and suggestions that were sent to the proposers.
- * WG1.3 has been acting towards bringing closer together the communities that have developed around the International Workshop on Coalgebraic Methods in Computer Science (CMCS) and the Workshop on Algebraic Development Techniques (WADT). Both

events have received the support of WG1.3 in the past and have involved in their organisation many members of the WG. At a meeting held on March 29 in Barcelona, the steering committees of CMCS and WADT decided to launch CALCO - the Conference on Algebra and Coalgebra in Computer Science, to be held every 2 years starting in September 2005. Ten (out of 15) members of the steering committee of CALCO belong to WG1.3. A request has been made for WG1.3 to be co-sponsor with the University of Wales Swansea of CALCO'2005.

- * Finally, WG1.3 members were prominent in the organization of the co-sponsored workshops and conferences listed below.

WG Events: (Events closely related and affiliated to WG)

- * 17th WADT: International Workshop on Algebraic Development Techniques

27-30 March 2003, Barcelona (Spain)

Organising committee (all WG1.3 members):

Michel Bidoit (Cachan, France)
José Luiz Fiadeiro, chair (Leicester, UK)
Hans-Jörg Kreowski (Bremen, Germany)
Peter Mosses (Aarhus, Denmark)
Fernando Orejas (Barcelona, Spain)
Francesco Parisi-Presicce (Rome, Italy)
Andrzej Tarlecki (Warsaw, Poland)

Number of participants: 50

Proceedings: Springer LNCS, to appear, 2004.

- * CMCS 2004: The 7th International Workshop on Coalgebraic Methods in Computer Science

27-29 March 2003, Barcelona (Spain)

Programme Committee:

Jiri Adamek (chair, Braunschweig, Germany)
Corina Cirstea (Southampton, UK)
Peter Gumm (Marburg, Germany)
Alexander Kurz (Leicester, UK), WG1.3 observer
Ugo Montanari (Pisa, Italy), WG1.3 member
Larry Moss (Bloomington, USA)
Ataru T. Nakagawa (Tokyo)
Gigore Rosu (Urban, USA), WG1.3 observer
Dirk Pattinson (München, Germany), WG1.3 observer
Jan Rutten (Amsterdam, The Netherlands)

James Worrell (New Orleans, USA)

Number of participants: 36

Proceedings: Electronic Notes in Theoretical Computer Science

Publications:

- * Michel Bidoit and Peter D. Mosses.

CASL User Manual.

LNCS Vol. 2900 (IFIP Series). Springer, January 2004.

With chapters by Till Mossakowski, Donald Sannella, and Andrzej Tarlecki.

- * CoFI (The Common Framework Initiative).

CASL Reference Manual.

LNCS Vol. 2960 (IFIP Series). Springer, March 2004.

Edited by Peter D. Mosses.

Comments on Status of WG:

Over the past 5 years, WG1.3 has contributed to the consolidation of the algebraic approach to system specification in connection with CoFI and the design of the Common Algebraic Specification Language. The publication of the CASL Book should reinforce the position of CASL (with its sub-languages and extensions) as an emerging de facto standard formalism for algebraic specification. Proposals for extension languages are submitted to WG1.3 for approval.

WG1.3 has also increased its activities regarding other approaches to system specification, such as graph transformation, and the co-algebraic approach. The background and interests of several of the new members elected in recent years reflects this trend of increasing breadth. CALCO (Conference on Algebra and Coalgebra in Computer Science) is the latest initiative to emerge from these efforts. WG1.3 activities include also the FLIRTS initiative (Formalism, Logic, Institution - Relating, Translating and Structuring), which addresses foundational issues associated with the use of different kinds of logical specification.

WG1.3 meetings are held every 9 months, which entails a rotation in the time of year of meetings. As a rule, talks last about 60 minutes, with plenty of discussion. The meetings are generally well-attended by members and observers alike. The next meetings are being scheduled for January 11-15, 2005, in Bangalore (India) and September 10-11, 2005, in Swansea (UK).

The group has not organised any IFIP Working Conference itself but has been actively engaged in other events like CMCS, ICGT, WADT and, now, CALCO.

WG1.4 on Computational Learning Theory

[Chair] A. Sharma; [Secretary] P. Vitanyi

It is with deep regret that the IFIP WG1.4 notes the untimely death of Professor Carl Smith who was the founding chair of the IFIP Working Group 1.4. He passed away on 21st July after a year and a half battle with braincancer. He was a very significant learning theory researcher and provided leadership to the theoretical computer science community. There will be an obituary in SIGACT News, and a special issue of the Journal of Computer and Systems Sciences will be devoted to the papers in the areas that he contributed.

The next major event in the learning theory calendar is ALT'04 (The 15th International Conference on Algorithmic Learning Theory) which will be held in Padova as part of Dialogues 2004 during October 2-5, 2004. In addition to ALT, Padova Dialogues will include the 7th Conference on Discovery Science, the 11th Conference on String Processing and Information Retrieval, and satellite tutorials on natural language processing, digital libraries and grid computing.

The most significant activity for rest of the year is composition of a new steering committee for WG1.4, including a new chair. A proposal has been made to the existing members of the steering committee and no opposition has been received to the proposal. A discussion on this issue will take place at the ALT conference in Padova in October and it will be discussed via email among the steering committee members of COLT (this item was tabled at the COLT meeting this year but could not be discussed due to absence of many people). It is expected that a recommendation about the new chair and a new composition of the committee will be made to the Chair of TC1 before the end of this year.

WG 1.6 on Term Rewriting

[Chair] C. Kirchner; [Secretary] L. Vigneron

The activity of the working group is twofold this year:

- The annual meeting was hold on May 31, 2004 in Aachen, Germany
- Internal activity as summarized on the web page and the mailing list.

1- The annual meeting was held just before the **RDP** (Federated Conference on Rewriting, Deduction, and Programming) that includes this year RTA (Rewriting Techniques and Applications) and many workshops. It was attended by 20 persons and focused this year on:

1. Progress Reports
2. Technical Presentations
3. Teaching Issues
4. General Discussion on Foreseeing Challenges for Rewriting
5. Business Meeting

The preliminary minutes are appended to this file.

It should be noticed that the working group is willing to organize a summer school on rewriting: any help from Ifip on this matter will be greatly appreciated.

2- Internal activity during the year:

This is summarized on the rewriting web page, in particular we have a detailed index of Laboratories and Researchers concerned with rewriting.

It summarizes also the different venues. In particular this year we had:

RDP 2004, the federated conference on rewriting, deduction and programming. There has been 108 participants (73 for RTA). The most represented countries are: Germany+France, USA, The Netherlands, Japan, Spain.

There has been a lot of workshops in 2004 concerned with rewriting:

- WRLA (during ETAPS): 5th workshop on rewriting logic and its applications (40 participants)
- Unif (during IJCAR): 24 participants
- RULE (during RDP): 5th workshop on rule-based programs (30 participants)
- WRS (during RDP): 4th workshop on reduction strategies in rewriting and programming (30 participants)
- WST (during RDP): 7th workshop on termination (35 participants)
- TERMGRAPH (during ICGT): 2nd workshop on term graph rewriting

ESSLLI 2004: the 16th European summer school in logic, language and information in Nancy (France) on August 9-20. Several lectures related to term rewriting will be given there.

The different systems available are also given on the web page. It should be noticed that the second competition of tools for proving termination of rewrite systems has attracted a lot of attention and has been a great success.

On-line Bibliographies are available on the site.

An active list of open problems is maintained by Nachum Dershowitz and Ralf Treinen and available online.

Following the working group meeting in 2003, it was decided to open a repository of lecture notes on rewriting. This has been done and begins to be used as well. Finally, the mailing on rewriting continues to be maintained by Pierre Lescanne

IFIP Working Group 1.6 on Term Rewriting

Report of the annual meeting: May 31, 2004 (Aachen, Germany)

Chair: Claude Kirchner; Secretary: Laurent Vigneron

Participants: F. Baader, D. Dougherty (invited), J. Giesl, B. Gramlich, T. Ida, C. Kirchner, H. Kirchner, J. W. Klop, P. Lescanne, S. Lucas, A. Middeldorp, F. Otto, M. Schmidt-Schauss, R. Thiemann (invited), Y. Toyama, V. van Oostrom, F. van Raamsdonk, L. Vigneron, H. Zantema

Agenda:

1. Progress Reports
 2. Technical Presentations
 3. Teaching Issues
 4. General Discussion on Foreseeing Challenges for Rewriting
 5. Business Meeting
-

1. Progress reports

*** Femke van Raamsdonk: for the Netherlands**

Presentation of the different activities in each domain:

Termination: iterative path orders; application of termination to liveness issues; TORPA, a tool for termination of string rewriting.

Semantics: validity is derivability is convertibility; Boehm-like trees for term rewriting systems.

Background: residual algebras; decomposition orders; proof systems for recursive types.

Varia: match bound techniques; undecidable approximations; reduction cycles.

Higher-order rewriting: optimal implementation of lambda-calculus; erasure and termination in higher-order rewriting; higher-order rewriting with types and arities; well-foundedness of HORPO in Coq.

*** Friedrich Otto: for Kassel**

Presentation of a recent work on invariant properties in string-rewriting systems (done with Kobayashi and Pride), and of XSSR, an experimental system for string rewriting.

*** Manfred Schmidt-Schauss: for Frankfurt**

The main research domains are listed:

- Unification: bounded higher-order (with K. Schulz, Munich)
- Context matching (with J. Stuber, Nancy)
- Monadic second-order unification (with J. Levy, M. Villaret, Barcelona)
- Operational semantics of higher-order languages using small-step semantics: focus on higher-order, non-determinism, sharing

*** Claude Kirchner: for Nancy**

The research groups in Nancy working on domains related to term rewriting are:

Adage, Calligramme, Cassis, Modbio, Protheo.

The work done by the Protheo group concerns the following subjects.

Rewriting calculus:

- as a general framework embedding rewriting and lambda-calculus: type systems, normalization, graph rewriting calculus, models of the rewriting calculus

Rewriting and production systems:

- collaboration with the "constraints" project and ILOG
- which semantics?
- which proof system?

ELAN and TOM:

- ELAN3: stable and maintained version
- ELAN-Coq: skeptical cooperation scheme for AC equational reasoning
- TOM v2.0, Eclipse plug-in; towards formal islands

Objectives: adding rewriting to languages many 1: JTOM (TOM for Java), JTOM for XML, CTOM (TOM for C), CamlTOM

Proofs:

- Coq modulo
- Proof terms for termination (polynomial interpretation)

Applications: Appl

- modelling chemical reactions
- web (Reverse NoE)
- termination (Cariboo, Types for termination)

Salvador Lucas: for Barcelona

In Barcelona, the ELP group contains 25 people, including 14 PhD students. Its

main research topic is about extensions of logic programming.

Its ongoing collaborations concern the following topics:

- declarative debugging of TRS
- debugging of WWW sites
- termination of Maude pgs
- termination fo context rewriting

And the hot rewriting topics are:

- termination of Maude programs
- extension of Maude (on-demand evaluation, narrowing)
- implementation of CSRPO onto MU-TERM
- interoperability of tools (.NET, XML+WWW)
- termination of Haskell programs
- extension of Curry (natural narrowing)
- termination techniques for model-checking of tccp programs

2. Technical Presentations

- * On the connection between higher-order rewriting and operational semantics
by Manfred Schmidt-Schauss
- * Some formal calculi for modeling programming languages
by Dan Dougherty
- * New Result on Combining Decision Procedures for the Word Problem and
Related Problems
by Franz Baader
(joint work with Silvio Ghilardi and Cesare Tinelli)

3. Teaching Issues

Each participant explains shortly the teaching issues in his/her university.

- * in Aachen:

The term rewriting lecture is popular, as graduate course, because students follow some theoretical courses as undergraduate.

Contents: parts of Baader-Nipkow book.

A lot of students complete their master thesis in this domain.

Lambda-calculus is teached as part of functional languages course.

- * at ENS Lyon:

Three courses are related to term rewriting: logic (proof theory, connection proof-computation); rewriting (Baader-Nipkow book, Groebner bases,...); semantics

(explicit substitutions).

* in Tsukuba:

Term rewriting is taught as part of the functional programming course.

* in Innsbruck:

Term rewriting is taught for undergraduate students (for attracting them for masterdegree).

* in Dresden:

There is an international master course in computational logic, attracting many foreign students. Courses on term rewriting are all based on the Baader-Nipkow book. However, a lot of students do not follow theoretical courses, so there are very few PhD students in this domain.

* in Worcester:

Very few students follow theoretical courses, because this is difficult to find a job after a PhD in a theoretical domain. The main course related to term rewriting is on logic for computer science.

* in Amsterdam:

There is one course on term rewriting and several related courses (process algebra, model checking, co-inductive techniques, ...).

* in Utrecht:

Students in cognitive science follow two courses related to term rewriting: types theory; optimal implementation of lambda-calculus.

* in Sendai:

Students are interesting by big applied projects, and only graduate students have a term rewriting course.

* in Vienna:

The only course that is related to term rewriting is on computation intelligence, and contains parts on logic and lambda-calculus.

* in Nancy:

At the master level, one course devotes 10 hours to rewriting. Several others use the concept.

4. General Discussion on Foreseeing Challenges for Rewriting

The discussion about the main challenges related to term rewriting raises the following research topics:

- graph theory
- non-termination problems (bisimulation, ...)

- first-order termination (Isabelle)
- use of object calculus
- combination problems for non-disjoint signatures
- the rewriting calculus
- programs transformation
- properties of rewriting when no termination or confluence (properties of reachability, strategies): formal framework needed
- to mix logical deduction with statistical information (useful for decision making)
- abstract knowledge
- modularity and strategies: non disjoint unions (non left-linear rewriting)
- transformation from ML programs to rewriting rules (priorities lost)
- technical implementations of term rewriting

About teaching, the following points are discussed:

- teaching term rewriting is very important
- to provide graphic supports (more attractive for students), with macromedia animation for example

The term rewriting community has to enlarge its scope concerning:

- applications: they exist, so we need to attract industrial partners
- other communities: higher-order, biology, web semantic, ...

this relation has to be based on stable tools, so we have to develop more of them
 Pierre Lescanne raises the problem that the rewriting mailing list has become a list for announcing events; this is no more a forum of discussion. Its has to be reactivated, like the list of open problems that is not developed as it should be.

Concerning attracting applications, Franz Baader proposes to permit the publication of application papers, even if they have already been published in application conferences. And papers submitted to RTA can be of related domains, as soon as their basis is rewriting.

A remark is done on the expression "term rewriting": this is not very positive and attractive. How could it be possible to improve this?

Finally, thanks to this IFIP working group, our community is recognized by theoretical science. So we have to use this for attracting related domains and applications.

5. Business meeting

*** News from the IFIP:**

The 2004 IFIP World Computer Congress will hold in Toulouse, August 22-27: it

will contain many events, including the third international conference on Theoretical Computer Science, and a TC1 meeting.

*** Membership:**

Some of the members of the group have not participated to meetings for years. So we are going to apply the membership rules and exclude them.

Some other members have agreed to leave the group, such as U.Martin, M.Venturilli. J.Avenhaus has retired but wants to keep in touch. The proposal to have him as an honorary member is proposed and accepted.

Other proposed honorary members: G.Huet, U.Montanari.

About future new members, they have to be invited several times, so it would be better if we could contact them early enough before the meeting, for being sure that they can come.

*** Rewriting activities:**

For **RDP 2004**, the federated conference on rewriting, deduction and programming, there has been 108 participants (73 for RTA).

The most represented countries are: Germany+France, USA, The Netherlands, Japan, Spain. There has been less submissions compared to previous years, and there has also been less participants.

In **2004**, there has been a lot of workshops related to rewriting:

- WRLA (during ETAPS): 5th workshop on rewriting logic and its applications (40 participants)
- Unif (during IJCAR): 24 participants
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ESSLLI 2004: the 16th european summer school in logic, language and information will hold in Nancy (France) on August 9-20.

Several lectures related to term rewriting will be given there.

In **2005**, the conference **RTA** will be part of RDP, together with TLCA.

It will hold in Nara (Japan) on April 19-23.

Note that **the deadline for papers submission** is very early: **November 12**.

The proposition of organizing a **summer school on rewriting** is raised. The main difficulty when organizing such event is to find funds. Femke van Raamsdonk and Pierre Lescanne will try to get information on this.

*** Information on the web:**

<http://plateforme-qsl.loria.fr/Plate-formeQSL/index.php?Language=1>

This is the address of the repository on term rewriting. It contains systems and lecture notes. However, it needs more input and it has to be referenced in more web pages. The members of the group are invited to send new documents and softwares to the webmaster (Mohamed.El-Habib@loria.fr).

Pierre Lescanne has done a web page containing hardly findable papers. This page has been added in the online bibliographies citations on the rewriting home page (<http://www.rewriting.org>).

Ralf Treinen needs to update the web page on open problems (see <http://www.rewriting.org>). Everybody is invited to send some to him (treinen@lsv.ens-cachan.fr).

*** Next working group workshop:**

The next meeting of this IFIP working group will hold in Nara (Japan), as part of RDP, with the RTA and TLCA conferences.

WG 1.7 on "Foundations of Security Analysis and Design"

[Chair] Roberto Gorrieri; [Secretary] Riccardo Focardi

Overview of WG activities:

organisation of several workshops and publications of a book and journal special issues

Meetings of WG:

one meeting in Barcelona, April 5, 2004;
next meeting in Long Beach, California, January 11 2005.

Changes in WG Membership:

New members: Jan Juriens (D), Jean-Jacques Quisquater (B)

Inactive members removed: B. Jonsson (Sweden), U. Maurer (CH), Y. Moses (IL).

Proposed new member: Sandro Etalle (NL).

WG Activities: organisation of several workshops and publications
of a book and journal special issues

WG Events:

- WITS: Workshop on Issues in the Theory of Security (WITS '04) 5-6
April 2004, Barcelona, Spain, as a satellite event of ETAPS 2004,
organizer: Peter Ryan;
http://www.dsi.unive.it/IFIPWG1_7/wits2004.html.
- WISP: Workshop on Issues in Security and Petri Nets
Bologna (Italy), 26 June 2004
organizers: R.Gorrieri, N.Busi and F.Martinelli
publication: ENTCS volume
<http://www.iit.cnr.it/staff/fabio.martinelli/WISP2004cfp.htm>
- FAST: Workshop on Formal Aspects in Security & Trust (FAST)
Toulouse, France, 27 August 2004
organiser: F. Martinelli, T. Dimitrakos
publication: Kluwer volume
<http://www.iit.cnr.it/FAST2004>
- SecCo: Workshop on Security Issues in Coordination Models, Languages
and Systems, London, UK, 30 August 2004
organizers: R.Focardi, G. Zavattaro
publication: ENTCS volume
<http://www.cs.unibo.it/secco04/>
- FOSAD: International School on Foundations of Security Analysis and
Design, 6-11 September 2004, Bertinoro, Italy (scientific coordinators:
A. Aldini, R.Gorrieri, F.Martinelli, A.Sabelfeld)
<http://www.sti.uniurb.it/events/fosad>

Pulications:

- Springer LNCS-Tutorials volume 2946 with a collection of tutorial papers covering
all the main courses of the FOSAD school for the years 2001 and 2002.
- Special issue of the journal TCS, edited by R.Gorrieri, on "Foundations of Security
Analysis and Design" is planned to be published at the end of the year.

Comments on Status of WG:

The WG is rather healthy and several activities take place and new ones are starting. All the activities produce no real economic income for the WG as they are organized freely. However, the visibility of the WG and its influence is increasing every year.