

Minutes Conasense workshop meeting 26-27 March 2018, Mercure Hotel, Amsterdam, The Netherlands

Present: Prof. L.P. Ligthart (LL) (chairman), Prof. R. Prasad (RP) (Treasurer), Dr. H. Nikookar(HN) (Secretary), Prof. V. Poulkov (VP), Dr. E. Cianca (EC), Prof. P. Lindgren (PL), and Dr. N. Laurenti (NL), Dr. G. Cisotto (CG), Prof. D. v. Willigen (DvW), Dr. S. Morosi (SM), E. Ligthart-Versaevel (ILV)(financial report and (together with HN) minutes)

Apologies: R. Prasad (RiverPublishers), N. v.d.Plas (CHL)

Date of the event: 26-27 March 2018

After luncheon LL started the workshop. He first spoke an "In-Memoriam" for prof. Pupolin, who passed away recently. Prof. Pupolin was from the very beginning an inspiring scientist in Conasense. He always attended the workshops and made great contributions. The memoriam will be attached to these minutes. After the "In-Memoriam" the workshop attendees kept 1 minute in silence to remember prof. Pupolin.

NL from Padova University also mentioned the good work of prof. Pupolin. For the team at Padova University Prof. Pupolin was the person, who kept the team spirit high. They are happy to continue the work in Conasense and they will do it in the name of prof. Pupolin.

The agenda was approved and LL stressed that the "last minute" changes in the agenda were based on the requests of Prof. Prasad and Prof. Lindgren. The changes concerned a proposal for submitting a H2020 project and an introduction to the CTIF Global Capture concept.

The minutes of the workshop 2017 were approved.

The action points of workshop 2017

- The action point on standardization is still going on.
- Concerning contacting EU parliament for smart city LL noticed that EU refers to the known organizations that are active at different levels (local, regional, governmental, etc.). This is complex and LL wonders if it is useful for Conasense. LL received positive responses on the Conasense book on Smart City and he understood that university libraries know the book.
- One of the action points is improvement of the Conasense website. There is no progress there and LL still wants videos and more lively material for the website. May be GC could check if there is material left by Prof. Pupolin in the office. Aarhus University could also check if they can help to improve the website.
- PL promised to check if industry could be more involved in Conasense. PL mentions "the 7 sisters" known in Denmark. He contacted this group of industries and Conasense is invited to come to Denmark and have in-depth discussions. LL is not in favor of having the next Conasense workshop in Denmark together with the "7 sisters". A joint "Conasense-7 sisters" meeting separate from the workshop will be a better solution. In general the Conasense

Workshop is one day, attendees can come on Monday and leave on Tuesday, the agenda is very full on topics related to book, papers, conferences, research projects and research programs; there is hardly any possibility to include extra time in the one day Workshop. PL will come with a proposal.

- LL still wants to see an expansion to the Conasense members with 3 to 5 members. In this regard he mentioned N. vd Plas from CHL replacing dr. S. Heijnen to have a member from the CHL in Conasense. LL urges the members to come forward with new proposals; e.g. it can be a topic in a joint “Conasense-7 sisters” meeting.
- The Conasense journal is still not published. Both editors EC and Albena Mihovska are trying another approach. The idea is that the Conasense journal papers will be integrated in another journal edited by K-C Cheng. This means that the Conasense Journal is not visible as a separated journal anymore. Main problem is: there are no 20 Conasense papers for the journal, because the journal does not appear in Scopus and authors want their paper be published in recognized journals. In that case they get credits for their work. River publishers bought this multi-media journal that already is in Scopus. When the Conasense papers appear in that journal they expect it is easier to get Conasense papers. LL understands but states it also means no visibility so why not publishing then in IEEE special issues of IEEE magazines like LL did with AESS magazine. Then Conasense is visible and gets big number of readers. At the moment there is no visibility via any journal. The question remains if the papers should be published in the Multi-Media journal or not.

SM states that he is in de editorial board of a “wireless magazine” with impact factor. He is willing to look into the possibilities of a special issue. LL states that both editors could try to select papers and contact editorial boards of IEEE magazine to request a special Conasense issue on a special Conasense theme and that SM could do a similar action related to that “wireless magazine”. They could then become guest editors of such special issues. Actually it is the same procedure as LL followed. VP thinks it could be a good idea to have every year a discussion on this topic and that it is decided what magazine is chosen. He proposes to have this approach instead of book chapters, because it is a very time-consuming work to organize every year a special issue in a journal. LL states that it takes at least 2 year to have a special issue realized. So it can be a good idea to have every 2 years a special issue and every 2 years a book on special themes.

River publisher sent an email to LL concerning their participation in Conasense. They give an overview of the investments they made in Conasense and indicate the decision that for 2018-2019 they still would stay member of Conasense. After that it is uncertain. LL discusses the situation. It turns out that River publishers does not earn money from the books, they only mention costs and no revenues. Although the figures are not correctly given, it is clear from the figures that River Publishers does not make any money out of the publication of Conasense books/journals. It means that Conasense board should consider if we should look for another publisher. A remark was made that we should not ‘look for another publisher’, but ‘look for a back-up plan’. Another remark to the publisher is that Conasense publications should be tracked easily and dissemination of knowledge is crucial for Conasense. It is concluded that for the coming year Conasense prefers River Publishers to other publishers, but we look also into other possibilities. Main problem is that the papers in the year journals are not in the Scopus data base. Therefore, the idea was launched to go for 2 options; IEEE Magazine with special issues or the Multi Media Journal of River publishers. In case River Publishers ends the relation with Conasense in 2019 other options should be considered. Other questions were raised on the quality of the papers. However, LL states that the editors should have the freedom to

decide what papers are acceptable for publication in the special issue and what in the other journals. LL likes to receive within 1-2 months a proposal from the editors: EC, Mihovska and SM.

Financial matters

ILV prepared the financial overview 2017 and the financial balance 2018. There is a reserve of € 5000 because the journals were never published in the open literature although the institutions paid extra fee for these journal issues. The financial program was approved and signed by RP (treasurer)

Books

6th book was mainly edited by RP. The book has 9 chapters. RP changed the theme of the 6th book because he could not get enough chapters for the Theme "Security". RP suggests keeping this theme for the 2019 Conasense book.

All present members who wrote a chapter in the book give a presentation on their chapter. LL asks all presenters to send their presentations to him.

EC starts with "radios for crowd counting applications". Some questions were raised concerning the GNSS and LTE war in USA. It is a multi-billion issue, according to DvW. EC points out that they have a cellular based localization of device free sensing.

PL gives a presentation on virtual business modeling (VBM). In Conasense the VBM focus should be on how technical means can be used. It is a new way of looking to business models that will lead to a new way of doing business. So it is the way of doing business (artificial/virtual, human related) and not the persons that do business. A question was raised on the technical model behind the VBM. It is not ICT related. Technology is an enabler and should take care that not everything is lost in the virtual world.

HN gives a presentation on wireless sensor networks. Main question is validation. Simulation is an option, but in real life it is different. Example: the coastguard has real sensor data to be used for validation. If we have a good model, it can be very useful. EU looks for methods to detect intruders.

VP gives a presentation on Wireless Access in Future smart cities and Data driven Business opportunities.

PL gives a presentation on AI & Deep learning in a world of human business models.

The 7th book will focus on "Physical analytics and security". Chapters in the book can be: sensing, localization, datamining, applications in security, etc. 1 chapter by PL, 1 chapter by EC, 1 chapter by PL and EC, 1 chapter by HN, 1 chapter by VP, 1 chapter by Conasense Brach China CBC, 1 chapter by Conasense Brach India CBI, 1 chapter by RP. The deadline is December 24, 2018 in order to have the book published before the next Conasense workshop in 2019.

GWS

GWS2017 was held in Cape town and EC chaired the Conasense session.

GWS2018 will be held in November 25-28, 2018 in Thailand. EC will organize a special Conasense session.

MOU India and China

The MOU with India and China will expire in 2019. There is no willingness neither in India, nor in China to pay fee for 20 Conasense books and to attending the Conasense workshop. In China they promote to have their own China Conasense where LL is asked to become coordinator. May be RP can become coordinator for India. It was agreed that in case both countries want to write chapters in the book this is welcomed.

AESS magazine special issue: papers and tutorial

The dinner speech concerns the experience of LL as Guest Editor with the papers and tutorial in a special issue in the IEEE- AESS magazine. In general it can be said that a lot of efforts were made by the editor to make the authors and reviewers to do their duties in time. IEEE has a strict policy concerning the deadlines and LL had really to fight for new deadlines.

GC gives her presentation on the paper: "Evolution of ICT for improvement of QoL". It is mainly based on the chapter written by Prof. Pupolin in the book. The presentation focusses on how technology can be used for the health of patients with focus of sensors.

The presentation of EC focused on through wall radar. It is possible to distinguish different persons using the signal spectrum but especially non-moving persons are difficult to be detected. At the moment a student is working on device free approach using passive sensing. Multi-antennas allow for determining the location but signal interference of the signals may affect the performance.

PL gave a presentation on global capture as a non-profit organization. Global capture has been installed last year and is complementary to Conasense. Many new entities were founded world-wide.

Due to lack of time the presentations on the tutorial in the AESS journal was postponed.

Promotion Conasense

LL gives presentations on his promotion of Conasense in China and Indonesia. SM has promoted Conasense in Kazakhstan. So, LL stimulates again that all members should promote Conasense as much as possible.

H2020 proposal

EC presents her H2020 proposal that is in the call: "Innovative application of drones for ensuring safety in transport", (RIA: Research and Innovation Action)

The 1st deadline = 16 January 2019

The 2nd deadline = 12 September 2019

The call will be opened on 5 September 2018. It means that the first phase a concept of 15 pages should be written and a consortium composed. Main themes are business/security/navigation.

For the 2nd phase at least 70 pages should be ready. The consortium should consist of enough business partners with impact, f.e. in transport sector it could be Siemens. However, LL states that it is very difficult to defeat big consortia based on big companies. Conasense should look for 'niches' in that area. If big companies f.e. on road transport are interested and you are not the preferred partner then you lose. So maybe areas such as coast-guarding ships along the coast of Denmark, or air pollution or illegal fishing monitoring by drones in North Sea be a good suggestion. Also Marine

guarding in Italian harbors where many illegal immigrants arriving is a good example. Many niches are thinkable.

LL mentioned starting with proposals and 6 industrial partners is enough. LL points out that a meeting in September together with the industrial partners should be organized in this regards.

Important is to know who has experiences with drones and who are the advanced companies working on drones. HN states that his organization is strongly advanced in the drone technology, but his organization will not participate in a H2020 proposal. VP proposes that first a state-of-the-art report should be drawn up, make a publication and present it in September. LL warns that they should not come into competition with drone developers. F.e. intruders, or pollution monitoring is not very attractive for the big drone developers. PL informs that Aarhus has funding available for inviting people to work on a H2020 proposal.

Miscellaneous

- GC: could other 2020 proposals to be considered? She plans to submit another 2020 proposal
- HN: IEEE-Benelux would appreciate if LL presents Conasense concept
- PL: suggests to put every year topics for the editors to propose for the journal on the agenda
- SM: consider extra workshop for preparing the 2020 proposal
- RP: announces that upon his retirement PL will be his successor in India, Conasense, conferences, etc.

Next meeting 18-19 March 2019

Action points 2018

- All members: look for expansion number of members (3-5)
- RP will send information to LL about the ITU standardization norms
- Committees for project proposal submissions: EC/PL/RP/VP
- PL will consider to organize a "joint-meeting" with the 7 sisters companies in Denmark
- PL will contact the interactive group at Aarhus university (improving website)
- PL will invite people involved in the new H2020 proposal to have a meeting in September'18
- GC will send video (Keio university) and other project material for the website
- GC will prepare a new H2020 proposal
- LL will respond to River publishers
- LL will accept invitation IEEE-Benelux for Conasense presentation
- LL will approach other possible publishers
- EC will prepare H2020 proposal before September 2018
- EC will organize Conasense session in GWS2018
- EC+SM and A. Mihovska will prepare topic proposal for special issue on Conasense in IEEE journal/magazine
- VP will make state-of-the-art report about 'niche' applications of drones

