Hi everyone!

Here is the October issue,

Local news from Germany are available on the next national conference that will host also the audiology conference.

Deadlines and events are reported at pages 2-3 together with job offers.

Then a little bit of our scientific production: a YAN thesis and YAN journal paper abstracts are published at pages 4-5.

Report of our activities are at page 6.

**Best regards,**

The YAN TEAM

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**News from Germany:**

**DAGA and DGA 2014 in Oldenburg (Germany)**

In 2014 the annual conference of the German acoustical society (DAGA) will be held together with the annual conference of the audiological society of Germany (DGA) in Oldenburg (Germany). Besides acoustics in general, the combination of the two conferences makes way for one week with a special focus on sound & speech perception, hearing models, and hearing aid development. Even though both conferences are held in German, it might be interesting to attend them for some of you.

Registration for the DAGA conference is already open. The abstract submission deadline for the DAGA 2014 is November 1, 2013 and for the DGA 2014 it is November 30, 2013. A reduction of the conference fees is offered to those registering for both conferences. For young researchers a limited number of student grants are usually available. Detailed information on the application for these grants can be found on the DEGA-Website during October.

*More information about the conferences can be found on the website of the DAGA conference*

*and the website of the DGA*
Upcoming events & Deadlines

Upcoming events October 2013:
http://www.soundstudies.eu/2013conference/
4-6 (ESSA 2013): First International ESSA Conference: Functional Sounds. Berlin (Germany).
http://www.soundstudies.eu/2013conference/
http://cnm2013.ief.u-psud.fr/
8-9 (JAAN 13): acoustic and naval applications. Nice (France).
https://intranet.sfa.asso.fr/archives/J74-JAAN2013/
http://pruac.zju.edu.cn/index.htm
17-20 The 135th AES Convention. New York, USA.
http://www.aes.org/events/135/
http://sympol.cusat.ac.in/index.php
29-30 Surveillance 7 International Conference. Chartres – France.
http://www.surveillance7.fr/

Upcoming events November 2013:
5-7 2nd International Conference Wind Turbine Noise and Vibration. Hamburg, Germany.
http://www.turbine-noise-vibration.com/
http://www.acoustics2013newdelhi.org/

Submission deadlines October 2013:
11 AutumnSchool: “City and acoustics” (Registration)
15 DEGA FAMA Seminar (Abstract)
31 Awards “Amedeo Giacomini”. (Registration)
Awards “Gino G. Sacerdote” (Registration)
DEGA FAMA Seminar. (Registration)

Submission deadlines November 2013:
1 DAGMA 2014 (Abstract)

Workshops and Grants October 2013:
9 Seminar “Non destructive control : actual developments”. Paris (France).
http://www.mesurexpansion.com/enova-paris-conferences#cnr
12 Seminar “Meeting Science and music”. Rennes (France).
http://jsm2013.irisa.fr/
15 Symposium: “What do we know and what can we measure?”. Lund (Sweden).
15-16 Science meeting: “Arouind of wave control for biology application” Marseille (France).
http://ioa.org.uk/events/event.asp?id=285
18 Seminar: The new acoustic and vibration certification standards of machinery and equipment:
potential and critical issues. Bologna(Italy).
   http://ioa.org.uk/events/event.asp?id=279
21-25 AutumnSchool: City and acoustics. Nantes(France)
   https://intranet.sfa.asso.fr/archives/J80-VISIBLE/
   http://ioa.org.uk/events/event.asp?id=284
   http://ioa.org.uk/events/event.asp?id=287
   http://ioa.org.uk/events/event.asp?id=278
   Amount: 1000€.

Workshops and Grants November 2013:

1 Grants for young researchers in DAGA 2014. (Deadline for the preliminary version of full paper).
8-9 DEGA FAMA Seminar. “Nuances in musical acoustics - a territory between fact and myth”.
   Detmold (Germany).
   http://www.dega-akustik.de/fachausschuesse/ma/dokumente/seminar-fama-2013/
   http://ioa.org.uk/events/event.asp?id=253
19 IOA Event. “Sounds Familiar? English accents and dialects at the British Library and History of
   Early Wildlife”. Bristol(UK).
   http://ioa.org.uk/events/event.asp?id=286
   https://wwwbilbao.aytoonline/jsp/fsimposium.jsp?idioma=1

Job offers

Hi, as you know many of the job offers are sent by email, here are the latest:

PhD Scholarship in Modeling of Low Frequency Noise from Wind Turbines - DTU (Denmark)

PhD scholarship in Noise Propagation and Optimization from Wind Turbines in Wind Farm -
DTU (Denmark)

Audio Software Engineer - Commend (Austria)

Further offers can be found on the EAA website Job section:
https://www.euracoustics.org/job-offer/list-of-job-offers
Title: "Female and male voices: acoustic differences, gender identification from speech and psycholinguistic implications in English and French speakers"

Author: Erwan Pépion

Affiliation: University Paris 8, France

Published in: Doctoral Thesis [link to full paper]

Abstract:
Differences between female and male voices are linked to complex and multidisciplinary issues. The current study focuses on phonetic and psycholinguistic aspects. The first chapter is a literature review of the field. Cross-gender acoustic differences and their origin are discussed, as well as listener's gender identification from voice processing. Psycholinguistic implications are also described. All studies are presented from a critical point of view and research perspectives are proposed. The second chapter presents an acoustic analysis of disyllabic (pseudo-)words produced by Northeastern American English speakers and Parisian French speakers. Resonant frequencies, mean F0, F0 range, VOT, H1-H2 intensity differences and words' durations were measured. Significant cross-gender differences were obtained for each tested parameter. Moreover, cross-language variations were observed for F0 range, vocalic formants and H1-H2 differences. These results suggest that cross-gender acoustic differences are partly language dependent. The same recordings were then used in gender identification from speech experiment. It was conducted jointly on Parisian French native listeners with French stimuli, and on American English listeners with English stimuli. Listeners had to identify the speaker's gender and indicate their degree of certainty. In both languages, percentages of correct identifications were significantly above chance for initial voiceless consonants, and close to 100% with initial vowels. Considering the acoustic analysis performed on the stimuli, it was found that American English and French listeners did not use the same strategies. Thus, mean F0 and voice quality (H1-H2) had more influence on American English listeners' judgements than on French listeners', contrary to vowel formant frequencies and F0 range. The fourth and last chapter is dedicated to a word spotting experiment, conducted with French native speakers. The aim of this experiment is to test the participants' response time, depending on whether the target word is produced by a male or a female voice. Results suggest that these two types of voice are processed equally fast, even though they seem processed as two different entities. Moreover, no significant correlation was found between mean F0 of the target word and response time. To conclude, it appears that cross-gender acoustic differences and listeners' strategies in gender identification from voice are strongly language dependent and therefore socially constructed. Research perspectives and practical applications are proposed.

Author Biography:
Erwan Pépion is a French researcher in experimental phonetics, based at the University Paris 8.
He obtained his PhD in April 2013, with a thesis dedicated to the acoustic differences between male and female speech, focusing on cross-language variations in French and American English speakers.

He taught general phonetics and phonology for three years and now teaches English phonetics.
YAN publication in Journal

Title: "Finite element computation of elliptical vocal tract impedances using the two-microphone transfer function method"

Author: Marc Arnela and Oriol Guasch

Affiliation: GTM Grup de recerca en Tecnologies Mèdia, La Salle, Universitat Ramon Llull, C/Quatre Camins 2, Barcelona 08022, Catalonia, Spain.

Published in: Journal of the Acoustical Society of America, 133 (6), pp. 4197-4209, June 2013. [link to full paper]

Abstract:
A two-microphone transfer function (TMTF) method is adapted to a numerical framework to compute the radiation and input impedances of three-dimensional vocal tracts of elliptical cross-section. In its simplest version, the TMTF method only requires measuring the acoustic pressure at two points in an impedance duct and the postprocessing of the corresponding transfer function. However, some considerations are to be taken into account when using the TMTF method in the numerical context, which constitute the main objective of this paper. In particular, the importance of including absorption at the impedance duct walls to avoid lengthy numerical simulations is discussed and analytical complex axial wave numbers for elliptical ducts are derived for this purpose. It is also shown how the direct impedance of plane wave propagation can be computed beyond the TMTF maximum threshold frequency by appropriate location of the virtual microphones. Virtual microphone spacing is also discussed on the basis of the so-called singularity factor. Numerical examples include the computation of the radiation impedance of vowels /a/, /i/, and /u/ and the input impedance of vowel /a/, for simplified vocal tracts of circular and elliptical cross-sections.

Author Biography:
Marc Arnela is currently a researcher at the Acoustics Area, La Salle R&D, Universitat Ramon Llull (URL), Barcelona.

His main research topic concerns the numerical simulation of voice production. In particular, he focuses on vocal tract acoustics, developing Finite Element codes to solve the equations involved in the generation of vowels, diphthongs and syllables, in the framework of the European project EUNISON (http://www.eunison.eu/).

He holds a BSc (2006) and a MSc (2009) in Telecommunications Engineering (Image and Sound), La Salle, URL. Since 2009, he is pursuing a PhD in the same university.
The YAN at the Internoise Conference

Hi everybody! As many of you already know a bunch of members of the YAN group were at the Internoise conference in September. We did a great job there despite some difficulties in getting in touch with people at such a big conference. Considering that only 30/190 students were in the YAN professional workshop, it was quite difficult to get many new members (many were already subscribed, other were not European). However during the presentation of the group during the workshop we had a volunteer to be the representative for Egypt! What a great connection!

Apart from the workshop, we organized another interesting event: the "alternative" dinner, so we had the possibility to meet many other people there. Our local representative Fabio Kaiser found a great place to have dinner and chat. Lots of people came, whether they belonged, or not, to our YAN community and above all we increased the number of members (that's great!), there were people from all over Europe and also from outside. It was perfect and both professors and other delegates joined us after the official dinner to drink a beer together!

Hope that everyone had as great a time as I had and I heartily recommend to everyone who is going to the TecniAcustica in Valladolid to join the YAN's activities planned by our local representative there, Carolina Monteiro, it'll be the perfect moment to meet new people and enjoy your time there! On our facebook group you'll find some photos of the conference and of the event in Innsbruck!

In the month of September we created the YAN Facebook page. There you can find some useful information about upcoming events, deadlines and workshops And so come check us out and like our page!

EAA YAN

email: yan@european-acoustics.org
web: https://www.euracoustics.org/activities/young-acousticians-network

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