

PURSUANT TO ART. 18, SUBSECTION 1, OF ITALIAN LAW 240/2010, SELECTION OF ONE ASSOCIATE PROFESSOR, FOR THE ACADEMIC RECRUITMENT FIELD 09/H1 "INFORMATION PROCESSING SYSTEMS" - ACADEMIC DISCIPLINE ING-INF/05 "INFORMATION PROCESSING SYSTEMS" AT THE INSTITUTE OF COMMUNICATION, INFORMATION AND PERCEPTION TECHNOLOGIES (TECIP) - ACADEMIC CLASS OF EXPERIMENTAL AND APPLIED SCIENCES, RESERVED FOR CANDIDATES WHO IN THE LAST THREE YEARS HAVE NOT BEEN PART OF THE STAFF OR WERE NOT HOLDERS OF RESEARCH GRANTS OR ENROLLED IN UNIVERSITY COURSES AT THE SCHOOL, IN ACCORDANCE WITH ART. 4, SUBSECTION 4 OF ITALIAN LAW 240/2010, ISSUED BY RECTOR DECREE NO. 382 DATED 14/07/2016, PUBLISHED ON THE SITE OF THE MINISTRY OF EDUCATION, UNIVERSITY AND RESEARCH ON 14/07/2016, NOTICE OF WHICH WAS PUBLISHED IN THE GAZZETTA UFFICIALE - 4° SERIE SPECIALE "CONCORSI ED ESAMI" NO. 60 DATED 29/07/2016.

FINAL REPORT

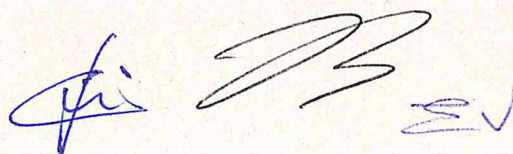
On 2016, November 14, at 15:00 in a room of the TeCIP Institute of the Scuola Sant'Anna, the committee nominated by the Rector, by decree No. 417/2016, and made up of:

- Prof. Lino Cinquini, Full professor of "Business Administration" 13/B1 at the Scuola Superiore Sant'Anna, member of the Recruitment Committee;
- Prof. Giorgio Carlo Buttazzo, Full Professor of 09/H1 "Information Processing Systems" at the Scuola Superiore Sant'Anna, designated expert by the TeCIP Institute;
- Prof. Gerhard Fohler, Full Professor at Technical University of Kaiserslautern;
- Prof. Luis Almeida, Associate Professor at University of Porto;
- Prof. Radu Dobrin, Associate Professor at the Mälardalen University;
- Prof. Enrico Vicario, Full Professor of 09/H1 "Information Processing Systems" at the University of Florence;

met to review the selection process for the recruitment of a an associate professor for the Academic Recruitment Field 09/H1 "Information Processing Systems" - Academic Discipline ING-INF/05 "Information Processing Systems" at the TeCIP Institute.

The Committee completed its work on the following days:

- Preliminary meeting: October, 10, 2016 via teleconference.
- Second meeting: November, 14, 2016 via teleconference Proff. Almeida, Dobrin, and Fohler, and in Pisa Proff. Buttazzo, Cinquini, and Vicario.



The Committee held a total of 2 meetings, began its work on 2016, October 10th and concluded it on 2016, November 14th.

In the preliminary meeting, the Committee nominated the President and Secretary. It was noted in the minutes that each member had declared that they had no kinship or affinity up to the fourth degree inclusive, either with each other or with any of the candidates.

The Committee established the date by which their work would be concluded, the criteria with which the publications the curricula and teaching activities of the candidates were to be evaluated, and decided not to request the candidates to hold a seminar.

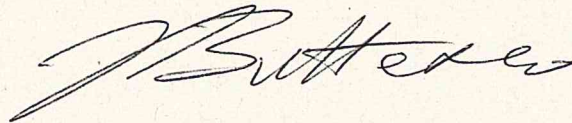
In the second meeting the Committee was informed of the withdrawal of candidate Giuseppe Serra, then examined the publications, the CVs and the didactic activity of the candidates, and, after a comprehensive discussion, by an absolute majority votes declared the following candidate to have won the position: Luca Abeni

The individual and collegiate judgments expressed are attached to this report (Annex 1).

Read, approved and signed.

THE COMMITTEE

Prof. Giorgio Carlo Buttazzo President

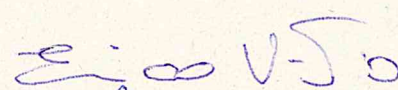


Prof. Gerhard Fohler Member

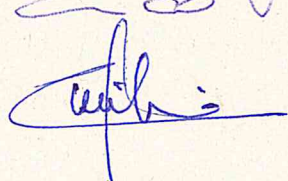
Prof. Luis Almeida Member

Prof. Radu Dobrin Member

Prof. Enrico Vicario Member



Prof. Lino Cinquini Secretary



**ANNEX 1 – MINUTES OF THE SECOND MEETING
INDIVIDUAL ASSESSMENT**

Assessment of Prof. Giorgio Buttazzo

Luca Abeni

Academic Curriculum: 22/32

The candidate has an excellent publication record in very high-quality international journals and conferences, receiving two best paper awards. His research contribution had a really strong impact in the scientific community, testified by a very high number of citations. According to Google Scholar, in fact, the candidate has an h-index of 31 and 3911 citations. It is worth observing that the Constant Bandwidth Server algorithm proposed by Abeni is now part of the Linux kernel, which is an exceptional impact for a computer engineer. He provided many other contributions in the development of the Linux kernel and has been one of the main developers of the Niagara streaming server. He also provided contributions as task coordinator in national and international research projects. The candidate does not report any service activity as a reviewer in program committees or editorial boards.

Scientific publications: 42/48

Among the 12 presented publications, 7 are on first class journals (according to the GEV09 classification), 4 on top class conferences (comparable to second class journals), and 1 on a third class venue.

Abeni	Class 1	Class 2	Class 3	Minor	
value	4	3	2	1	
number	7	4	1	0	
Total	28	12	2	0	42

Teaching experience: 16/20

The teaching activity has been consistent and in line with the requirements for the position.

Overall score: 80/100

Vitoantonio Bevilacqua

Academic curriculum: 23/32

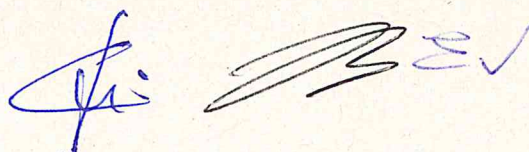
The overall scientific production of the candidate is quite consistent and one contribution received a best paper award. Nevertheless, the impact on the scientific community is relatively modest, given that, according to Google Scholar, the candidate has an h-index of 13 and 689 citations.

The capacity of attracting funds is significant, but all the coordinated projects were national projects. The technology transfer activity is also very good, with involvement in two startups and two patents.

The involvement in the research community as a reviewer is of good level, with activities at several (although not top quality) conferences.

Scientific publications: 33/48

Among the 12 presented publications, 4 are on first class journals (according to the GEV09 classification), 3 on second class journals, 3 on fourth class journals, and 2 on (not classified) minor venues. Most of the presented publications are jointly written by a consistent number of co-authors.



Bevilacqua	Class 1	Class 2	Class 3	Minor	
value	4	3	2	1	
number	5	2	2	3	
total	20	6	4	3	33

Teaching experience: 20/20

The teaching activity has been abundant and in line with the requirements for the position.

Overall score: 76/100

Assessment of Prof. Enrico Vicario

ABENI Luca

Academic Curriculum: 25 points (over max 32 points)

The candidate received the Master (cum Laude) and then the PhD in 2002 at Scuola sant'Anna, with two periods of visit in the US. He then worked in the industry until the enrollement as Assistant Professor (Ricercatore) at the University of Trento in 2006. He has been Associate Professor at the University of Trento since 2014.

He presents a high quality, consistent and continuous production, fully coherent with the aims of the reference scientific area (Settore Scientifico Disciplinare 09/H1), with all 12 presented publications appeared in top journals and top conferences, with various in relevant journals beyond the list of 12 selected publications, with various publications with a very high number of citations, a number of co-authors per paper in the typical range of the reference scientific area.

He reports a very good track in research projects, with leadership and responsibility roles in European and National projects, and authorship of various implementations with relevant impact.

He has a mature teaching activity since the year 2007, combining both foundational and specialized courses.

The document of self-evaluation has various points to polish, with some references not appearing and some values mentioend but not reported.

The CV has a clear organization but does not report details on teaching experience, neither on the duration of research visits during the PhD.

Scientific Publications: 39 points (with max 4 per each of the 12 presented publications)

based on quality of the venue, number of citations per year, number and positioning of authors:

Number	1	2	3	4	5	6	7	8	9	10	11	12
Rank	4	4	4	2,7	3	3,6	3,8	4	1,5	1,1	3,3	4

Teaching experience: 16 points (over max 20 points)

He has a mature teaching activity since the year 2007, combining both foundational and specialized courses.

Total score: 80 points

BEVILACQUA Vitoantonio

Academic Curriculum: 25 points (over max 32 points)

The candidate received the Master and the PhD in 2000 at the Politecnico di Bari, where he has then been an assistant professor (Ricercatore) since 2002.

He presents a relevant and continuous production, growing over time in the intensity of publication and citations, fully coherent with the aims of the reference scientific area (Settore Scientifico Disciplinare 09/H1) but also partially rooted in the area of biochemistry genetics and molecular biology, with various publications in top journals, a number of co-authors per paper that partially reflects the practice of publication in the context of lifesciences, a relatively low number of citations. His activities of professional service include program committee memberships and chairmanship activities at some conferences, as well as participation in a Journal board.

He reports a rich track of involvement, leadership and responsibility in projects of technology transfer, mostly in the regional scale. He is also holder or inventor of patents, and served in a number of technical roles for various development projects.

He carried out a very intense teaching activity, with a very high number of delivered credits (CFU), starting from academic year 2001 and continuing up to now, with advisorship in a very high number of theses, with both foundational and specialized courses.

The CV is not perfectly organized, mixing the relevant facts with various minor details. The description of teaching activities is quite confuse and makes difficult a sharp assessment of the exact number of delivered CFU.

Scientific Publications: 31 points (with max 4 per each of the 12 presented publications)

based on quality of the venue, number of citations per year, number and positioning of authors:

Number	1	2	3	4	5	6	7	8	9	10	11	12
Rank	0,5	0,5	4	4	4	4	4	2,5	1,4	1,5	2,1	2,5

Teaching experience: 20 points (over max 20 points)

He carried out a very intense teaching activity, with a very high number of delivered credits (CFU), starting from academic year 2001 and continuing up to now, with advisorship in a very high number of theses, with both foundational and specialized courses.

Total score: 76 points

Assessment of Prof. Gerhard Fohler

Luca Abeni

Academic Curriculum: 21/32

The scientific profile of the candidate is excellent with a very high number of publications and citation index. The thematic line of the presented work is clearly in line with the research of the professor position. The candidate has been involved in a number of projects, including open source ones and one with very high impact, which has been included in the mainline Linux kernel.

Scientific publications: 39/48

He has published a large number of papers in venues of high quality and high impact, with some papers having outstanding impact and two with best paper award.

Teaching experience: 17/20

The candidate has been regularly teaching a number of courses related to the area of the call.

Overall score: 77/100

Vitoantonio Bevilacqua

Academic Curriculum: 22/32

The scientific profile of the candidate is good, themes addressed in the published works are in line with the research of the professor position. The impact of the overall scientific production in the scientific community is good.

The candidate attracted and coordinated significant amount of funding for research from national and industrial funding sources. There is no funding from an international or European level.

The technology transfer activity is very good, with involvement in two start-ups and two patents.

The involvement in the research community is of good level, with roles in editorial boards, and program/general chair of international not top tier conferences.

Scientific publications: 32/48

He has published a number of papers in venues of high quality and high impact, with best paper award

Teaching experience: 19/20

The candidate has been teaching a large number of courses for many years.

Overall score: 73/100

Assessment of Prof. Radu Dobrin

Luca Abeni

Academic Curriculum: 18/32

The academic production and potential of the candidate is excellent, both in terms of quantity and quality which is reflected in his h-index (30 and 14 according to google scholar and scopus respectively). He has received the best paper award twice (in the same conference) and his CBS algorithm, well known in the community, has been implemented in the official Linux kernel. The candidate has been involved in the coordination of a couple of projects both national and international and he has been active in development projects. However, his ability to attract external (national and international) funding is not documented. The candidate has spent some time at prestigious universities and research groups during his PhD. However, it is not clear how the scientific collaboration with other universities continued afterwards. His (documented) participation to editorial boards and program committees of international conferences, etc, seems to have been quite limited.

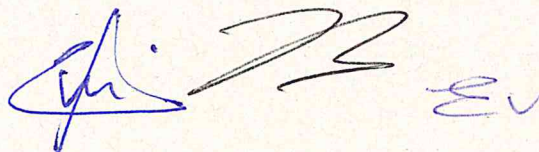
Scientific publications: 43/48

The 12 presented works are almost all in top ranked conferences and journals. The candidate's research topic is in line with the topics of the institute. Two of them have more than 100 citations.

Teaching experience: 15/20

The candidate's teaching activity has been continuous, except the first years after his PhD when we worked in industry, however, in mainly four courses. Also, there is no documentation on the teaching excellence or pedagogical skills of the candidate.

Overall score: 76/100



Vitoantonio Bevilacqua

Academic Curriculum: 21/32

The academic production of the candidate is good (especially quantity wise). This is reflected in the number of citations and the impact of his works which is not at the same level as the production of the other candidate (13 and 9 according to Google scholar and Scopus respectively). Additionally, a large number of the of the papers are published jointly with a large number of co-authors. The presented works are in the area of bioinformatics (which I am not sure whether it is in line with the topics of the institute). The capacity of attracting funds is good and well documented, however, mainly in national projects. His involvement in the research community both national and international is of good level, with organized events, programme committees and chairmanship activities at several conferences. The candidate has also received a number of awards, e.g. one best paper award in a conference where he is also part of the organisation committee (ICIC).

Scientific publications: 31/48

The 12 presented works are in good venues, however not at the same level as the other candidate. One of them has 24 authors and their impact factor and number of citation since is quite low, even for the oldest ones.

Teaching experience: 20/20

The candidate has also been very active in teaching in a quite large number of courses not only in his department but also at other departments of the university as well as other universities in Italy. However, there is no documentation on the teaching excellence or pedagogical skills of the candidate.

Overall score: 72/100

Assessment of Prof. Luis Almeida

Dott. Luca Abeni - Trento, Italy

Total of 76 points, excelling in his publications and with reasonable CV and engagement in teaching.

The CV presents a good level of fitness to the call exhibiting particular strength in the research work within open source frameworks that resulted in a large number of high quality publications that had a significant impact and international visibility. The candidate has a clear engagement in the international community and has participated in national and international funded research projects with some level of coordination involved. He also has considerable teaching experience.

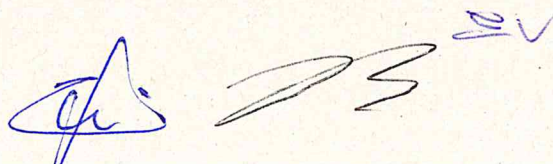
Academic Curriculum (max 32): 20

Stronger aspects of this candidate:

- Good alignment of research topics to the call.
- Continued scientific work of good quality and high productivity, with a relevant research experience in industry. Also many publications as first author and in high quality venues.
- Very good impact of the work (h-index of 31 in Google Scholar and over 3900 citations).
- Technology transfer through the participation in several open software projects with strong impact, particularly Linux, as well as related to streaming and peer-to-peer systems.
- Participation in research projects with local coordination.

Weaker aspects of this candidate:

- CV missing several aspects particularly related to community service (organization of events, participation in committees, reviewing for journals...) and departmental management.
- Self-assessment with a summary of the main achievements but revealing some lack of care in its preparation (e.g., unresolved references).



Scientific publications (max 48): 42

- Seven high-rank journal publications (4 points), four in top conferences of the area (3 points), and one in a not so relevant venue (2 points)

Teaching experience (max 20): 14

Stronger aspects of this candidate:

- Experience in teaching on topics related to the call.

Weaker aspects of this candidate:

- No reference to supervision of students.

Dott. Vitoantonio Bevilacqua - Bari, Italy

Total of 73 points, with a leveled performance across all three components, namely CV, publications and teaching.

The CV has a good level of fitness to the call. The candidate has significant research experience with clear engagement in the international community, having served in several scientific events and performed reviewing work. He participated in several national research projects showing some capacity to raise research funds. He has also contributed to technology transfer through two spin-off companies. His research led to two patents and several high quality publications despite a modest impact. Finally, he shows considerable teaching experience with some involvement in the supervision of PhD students.

Academic Curriculum (max 32): 22

Stronger aspects of this candidate:

- Continued scientific work of good quality and good productivity, with an increase in recent years. Also many publications as first author.
- Engagement in the organization of several scientific events.
- Participation in spin-off companies and technology transfer processes, having two patents.
- Good participation in department management activities.

Weaker aspects of this candidate:

- Poorly organized CV causing a poor impression. Lacks visible structure and focus.
- Too verbose self-assessment, lacking focus.
- Partial alignment of research topics to the call.
- Modest impact of the research (h-index of 13 in Google Scholar and just below 700 citations).

Scientific publications (max 48): 35

- Four high-rank journal publications (4 points), three in second-tier journals (3 points), and five other publications in less relevant venues (2 points).

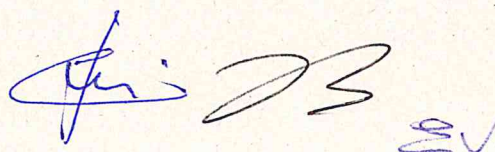
Teaching experience (max 20): 16

Stronger aspects of this candidate:

- Experience in teaching on topics related to the call.
- Some experience in supervising PhD students.

Weaker aspects of this candidate:

- CV is unclear with respect to engagement with master students.



**ANNEX 2 – MINUTES OF THE SECOND MEETING
COLLEGIAL ASSESMENT**

Luca Abeni

The overall academic production of the candidate is excellent. He has published a substantial number of papers in international venues of high quality and high impact, receiving two best paper awards. The high impact on the scientific community is testified by the high number of citations and by the integration of one of his proposed algorithms (the Constant Bandwidth Server) in the mainline Linux kernel. He also provided other concrete contributions in the development of the Linux kernel and the Niagara streaming server. He contributed to national and international research projects, but no service activity as a reviewer has been reported.

The teaching activity has been consistent and in line with the requirements for the position.

Academic Curriculum (max 32):	21.2
Scientific publications (max 48):	41.0
Teaching experience (max 20):	15.6
Overall score: (max 100):	77.8

Vitoantonio Bevilacqua

The overall scientific production of the candidate is quite consistent and one contribution received a best paper award. Nevertheless, the impact on the scientific community is relatively modest and many articles were jointly written with a relatively high number of co-authors.

The capacity of attracting funds is significant, but the coordinated projects were mostly national projects. The technology transfer activity is also very good, with involvement in two startups and two patents. The involvement in the research community as a reviewer is of good level, with activities at several (although not top quality) conferences.

The teaching activity has been abundant and in line with the requirements for the position.

Academic Curriculum (max 32):	22.6
Scientific publications (max 48):	32.4
Teaching experience (max 20):	19.0
Overall score: (max 100):	74.0

