

Faculty Meeting Minutes
Friday, April 14th, 2006
10:30 am @ CP 206C

*Attendance: J. Haugen, F. Johnson, J. Roshan, O. Baiocchi, G. Mobus, A. Fry, L. Crum,
L. Lyon-Banks, I. Bichindaritz, M. Stepp, B. Conlen, J. Tenenberg, D. Chinn, M.
Rosenfeld, D. McLane, J. Burley, E. Hong, S. Hanks.*

1. Approval of Minutes:

- 3/10/06 – Attachment I – Approved with amendments (Sam Chung motion and Moshe Rosenfeld second)

2. New Business:

A. 390 Workshop Presentation and vote to continue this program in the Fall – Donald

Donald gave a presentation about the 390 workshops, including its history, present status, and future goals. There were some questions raised about the workshops including if having the workshops helps with the retention issue, if the workshops are valuable, and if we can offer other forms of remediation assistance. The current cost of offering the workshops is estimated at \$42,000/year based on time, salaries, etc. After some consideration, the faculty requested that Donald present a proposal to the next faculty meeting in order to vote to decide if the workshops shall continue.

B. Upcoming Human Design & Technology Talk on May 9th – Josh

Josh announced to faculty that Eli Blevis, an Interaction Designer now at Indiana University, will be coming to campus on May 9th, to talk about notions of design. He will also be available for a brief discussion with faculty at 1:45 pm in the Carwein Auditorium. Josh has sent emails in regards to this talk and passed around posters that can be placed around campus.

C. Faculty Search Status – Orlando

Orlando indicated that applicants who did not pass the first screening for the CES faculty search, but could be seen as valuable applicants for the CSS positions, have been screened and made available for the CSS faculty search committee. Should any faculty member have a colleague whom they'd like to refer for the CSS faculty search, please ask them to email their application materials to Orlando and copy tfaculty@u.washington.edu in the email. The committee will be reviewing the

completed evaluations for additional feedback. Jennifer will be sending the link to the CSS faculty search advertisement to all faculty and staff.

D. CSS Faculty Search Committee – Orlando

Proposed committee: Orlando, Ed, Josh, George, Fiona and Jessica (ex-officio).

There was a consensus that a staff member should not be involved with the faculty search. Steve Hanks offered to be on the committee. The committee was approved minus Fiona and adding Steve. (George Mobus motioned and Moshe Rosenfeld second). **Approved committee: Orlando, Ed, Josh, George, Steve and Jessica (ex-officio).**

E. Tracking and analysis of grades – Marty

This item was removed from the agenda per the request of Marty.

F. Colloquium – Josh

Josh proposed a new format for future colloquiums to consist of a two-hour session with students having a poster and eliminating the presentations. Some faculty members indicated the current colloquiums have low attendance and concerns about the timing of when they are held. There was also some indication that the needs of the undergraduate students and graduate students are different. Orlando proposed that Josh, Isabelle, Sam, and Andrew discuss this issue as a group and if possible, bring this issue to the next faculty meeting.

G. Assessment exams – Steve – Attachment II

Steve indicated that there is too much dissatisfaction with the current assessment procedures and proposed the elimination of this practice. It passed unanimously. (George Mobus passed and Josh Tenenberg second). As a consequence of this decision, the Assessment Committee has been disbanded.

H. CSS Minor: Proposal from the Undergraduate Committee to eliminate the CSS Minor – Josh

Josh, on the behalf of the Undergraduate Committee, proposed eliminating the Minor in Applied Computing because they are finding that students would rather switch from the BS to the new BA degree. After some discussion, Josh decided to go back to the Undergraduate Committee with this proposal and will bring this item to the next faculty meeting.

I. Adjunct Hiring and Evaluation Proposal from the Undergraduate

Committee – Josh – Attachment III

Josh suggested the attached proposal for hiring adjunct faculty members. There was some concern about the term “adjunct” and that the official title is actually different. Orlando will check with Jessica about the issue. Steve asked that the word “reflective” (See “Hiring”, then second bullet in the attachment) be removed from the proposal. Steve also indicated that this proposal does not apply to faculty who have already worked here before. This proposal was unanimously approved, along with the three above-mentioned changes, (Steve Hanks motion and Larry Crum approved).

Changes were to:

- Replace “adjunct” with the correct term,
- Strike the word “reflective”
- Note that this proposal does not apply to faculty whom have worked here before

J. Deadlines for graduate proposals – George

George reminded faculty of the deadlines for graduate proposals and capstones. These deadlines are critical and are currently not being upheld by some faculty members. He asked that, if anyone is unsure of the dates, please refer to Chris Rials’ emails that indicate deadlines. Jessica has a deadlines calendar that includes this information as well. George stated that in the future, we may have to strictly adhere to the deadlines and that no exceptions will be made.

K. Request from Info Flow committee concerning explicit time frame for implementing policy changes – Josh

Josh requested on behalf of the Information Flow Committee that if any policy changes are proposed/implemented, that all necessary parties are informed of these changes in a timely manner, and that administrative needs are taken into consideration as well. Steve suggested that if anyone proposes any new policy, that this person also needs to do the research and include the timeframes and people involved first (including the administrative steps and timing required). Steve’s suggestion was agreed upon by faculty and will be taken into consideration for any future policy changes. (No vote was required).

L. Voting Faculty Only: Vote on Bill Conlen teaching TCSS 142 autumn quarter. Discuss TCSS 143. – Orlando

Motion to allow Bill Conlen to teach TCSS 142 and TCSS 143 in the Autumn Quarter was approved unanimously (Josh Tenenberg motioned and Moshe Rosenfeld second).

M. Voting Faculty Only: Vote on Vu Dinh Hoa as a Visiting Scholar for the time period of October to December 2006 – Orlando – Attachment IV

Motion to have Vu Dinh Hoa as a Visiting Scholar for the time period of October to

December 2006 was approved unanimously (Steve Hanks moved and Larry Crum second).

N. Voting Faculty Only: Vote on Benedito Guimaraes as a Visiting Scholar for the time period of January 2007 to December 2007 – Orlando – Attachment V

Motion to have Benedito Guimaraes as a Visiting Scholar for the time period of January 2007 to December 2007 was approved unanimously (Steve Hanks motion and Larry Crum second).

Other Items:

Orlando announced that Marty Stepp has accepted a position at the UW Seattle campus. We wish him all the best and thanked him for his contributions thus far.

Orlando reminded faculty of upcoming deadlines such as tenure & promotion and annual reviews.

Moshe inquired who decides the membership of the Institute's Advisory Board. Orlando indicated that we take nominations into consideration and that new members were welcome. He stated that some members should be replaced due to low attendance. He also requested that more faculty members participate in the advisory board meetings.

George indicated as a follow-up to a recent concern with having personnel matters noted in official minutes that he learned that there should be two sets of minutes (executive and primary) and that the executive minutes should not be stored in a public place. Jennifer will discuss this issue with Jessica as she determines personnel matters.

Adjourn

Faculty Meeting Minutes
Friday, March 10th, 2006
9:30 am @ CP 206C

Attendance: O. Baiocchi, D. Chinn, A. Fry, G. Mobus, D. McLane, M. Stepp, J. Tenenberg, S. Hanks, S. Chung, E. Hong, M. Rosenfeld, J. Burley.

1. Approval of Minutes:

- 2/3/06 – Attachment I – Approved with an amendment (Sam Chung motion and Ed Hong second)
- 2/17/06 – Attachment II – Approved (Sam motion and Ed second)

Note: George Mobus expressed some concern with having personal names indicated in the official minutes. He will look into this matter further to see what the procedure is and will let us know.

2. New Business:

O. Faculty search status – Orlando (combined discussion with)

B. Definition of areas for additional position(s)

Orlando indicated that there are going to be a total of 5-6 potential faculty positions available due to vacancies, sabbaticals, and other circumstances:

1. CE/CS position/Senior level/Rogene Eichler West's position ++
2. TBD/Senior level for now/Salazar position plus Lou Ann Lyon-Banks' vacancy
3. Endowed Chair position – to start new programs at UWT
4. "Given" position/Juan Lucena
5. Marty Stepp's vacancy
6. Boeing's proposed System Engineering/Software Engineering position

Orlando also asked faculty to let him know if they have any potential referrals for employment that they might have. George asked if we could place an advertisement for junior-level faculty members. Steve Hanks suggested that we place an advertisement indicating a range of faculty positions available. Steve will assist with drafting the ad once he receives a copy of our current one.

C. Visiting Faculty - Orlando

This item was tabled for the next faculty meeting.

D. Mail votes – Josh – Attachment III

Josh confirmed that this procedure does not apply to email votes. Motion to

approve this policy as presented was approved unanimously. (Steve motion and Ed second).

E. Undergrad course prerequisites – Josh

Josh indicated that there have been some implementation issues. We need to replace where it is indicated “pre-calc” or “calc” with the actual course numbers or equivalent. George suggested finding the Seattle course and then find its equivalent. Josh indicated that he would work with Fiona about this issue and also bringing this to the undergrad committee for further discussion.

F. Electives for the graduate program– George

The graduate committee is recommending these courses for approval as 400-level electives for the graduate program:

- 430 Networking and Distributed Systems
- 431 Network Security
- 432 Advances in Object Oriented Design
- 435 Artificial Intelligence and Knowledge Acquisition
- 437 Mobile Robotics
- 465 Embedded Real-Time System Programming
- 480 Comparative Languages
- 481 Computer Security

Motion to approve the above proposal was approved (5-yes, 4-no, 0-abstain). (George motion and Ed second). It was noted that all future 400-level courses must of that caliber.

A proposal to approve all 400-level undergraduate courses (except TCSS 422 and TCSS 445 and any other courses deemed by the graduate committee to have significant overlap with bridge courses) was motioned by Steve but was not seconded.

Steve motioned for the undergraduate committee to address this issue on a long-term basis. Motion was approved unanimously. (Steve moved and Moshe second).

G. Faculty Assembly Committee – Josh – Attachment IV

Josh indicated that the various committee terms end this spring and we need to appoint faculty members to these expiring positions. It was also noted that only the Promotion & Tenure (APT) committee requires a senior-level faculty member. The following appointments were agreed upon:

- Sam – Curriculum
- Moshe - Promotion & Tenure
- Steve – Faculty Affairs
- Donald – EC
- Ed – Academic Policies

H. Staff/Faculty Center input – Josh

Josh indicated that he was gathering input in regards to a possible place for staff and faculty to gather on campus. Several recommendations were made to Josh, including that the facility be centrally located, spacious, and to model it similar to a coffee shop.

I. Writing assessment and remediation – Josh

Josh stated that we need a long-term policy to address the issues regarding the writing assessments and remediation. He also indicated that 302 is not a remediation course.

Steve proposed to eliminate effective immediately the writing assessments and charge the undergraduate committee with creating a remediation policy that will consist of assessing the problem and having specific solutions for remediation in class. Motion was approved unanimously. (Steve motion and George second).

J. Course releases – Moshe

Moshe presented a proposal that tenure faculty will receive no more than two course releases per year and the course releases will be governed by a policy determined by the entire faculty. Moshe motioned this proposal but it was not seconded. Orlando stated he would bring this issue to the next Academic Director's meeting to see if there was currently a course release policy being utilized on campus and will let us know.

George also proposed that this item be tabled to the next faculty meeting and all agreed.

K. Faculty participation in advising – Orlando

This item was tabled for the next faculty meeting.

L. Discussion & vote regarding Barbara Endicott-Popovsky – Orlando

Orlando proposed either to have Barbara return next year teaching one course per year and we pay a portion of her salary, or renew her current contract as a senior lecturer. Moshe motioned for the proposal to renew her current contract but it was not seconded. Orlando will speak with Dean Bruce at the Information School in UWS to discuss our options and the final proposal will be presented to faculty via an internal voting system.

Adjourn

Proposal for a New Policy on Programming Assessment

Steve Hanks
Version 1.0 – 3/07/06
~~Version 0.0 – 1/10/06~~

Background and Rationale

A uniform system for placing students in the appropriate first programming class was initiated in Autumn 2004. This system offered two assessment exams: one gated placement into TCSS143, the second gated into TCSS305 (originally TCSS342). By policy, every student was required to take the assessment exam prior to enrolling in the next class in the sequence, regardless of whether they took the prerequisite course either at UWT or elsewhere. The exams were "standardized" in that they were based on multiple-choice and programming questions from the AP Exam in Computer Science.

Benefits of this system included the fact that it was considered "fair," that is the content was not biased toward the CSS program's course offerings. It provided an "entry bar" that was consistent across all feeder institutions, as well as an entry exam for those students who claimed adequate preparation without having taken a course prerequisite. It also allowed us to evaluate the relative effectiveness of various institutions in teaching the introductory courses (though as far as I know we never actually did so). There was also the rumor that the administration considered the exam – or the performance results generated by the exam – helpful in arguing to allow our program to offer the 142/143 sequence.

Objections to the system include the overhead associated with generating and administering the exams, as well as some odd policy implications: that our own students needed to take the exam even though they had performed well in the prerequisite course, that a student could technically fail a prerequisite but pass the exam, and be allowed to continue in the sequence, and conversely that a student could pass the prerequisite but fail the exam, and not be allowed to continue in the sequence.

It is possible that at this point the costs of maintaining the existing system outweigh the benefits, and this proposal offers an alternative process for placing students in the appropriate first programming class.

Proposal Summary

[This proposal summary is included for information only, and is not part of the official proposal, which will be voted on.]

The existing programming assessment exams will be discontinued. A student with a passing grade in a 142-equivalent class completed within the previous three years will be allowed to enroll in 143. A student with a passing grade in a 143-equivalent class

completed within the previous three years will be allowed to enroll in 305. Students without this credential may petition to "pass in" to the course of their choice. Their argument for skipping forward in the sequence may be based on prior coursework, relevant practical experience, or both.

The advising staff will have access to existing "standardized" assessment exams, and – in cases where a student's placement is felt to be ambiguous – will strongly encourage the student to take a standardized test for the purpose of determining the proper placement in the introductory programming sequence.

Proposal

Effective for the admission cycle for Autumn 2006, the following changes will be instituted:

1. The "mandatory, standardized" programming assessment exams currently being offered will be discontinued.
2. The advising staff will keep old copies of these standardized exams and offer them to students for self-assessment. The Undergraduate Coordinator (UC) or his/her designate will be responsible for grading the multiple-choice part(s) of the practice exam¹. The Assistant Director of Student Development (ADSD) will co-ordinate with the UC to arrange this grading. The ADSD or his/her designate will be responsible for grading the multiple-choice part of the exam, and for communicating results and advice back to the student. The results of these practice exams will be informational only. No more "standardized" exams will be generated.
3. In cases where an advisor believes a student's proper placement to be ambiguous, s/he will strongly advise the student to take a standardized exam. This advice should take the form of a face-to-face meeting with the student where a paper copy of the exam is given to the student, whenever possible.
4. A student with a transcribed passing grade in a *142-equivalent class*, taken within the past three years, will be allowed to enroll in TCSS143. The formal prerequisite for 143 will read "TCSS 142 or equivalent" to reflect this change.
5. A student with a transcribed passing grade in a *143-equivalent class*, taken within the past three years, will be allowed to enroll in TCSS305. The formal prerequisite for 305 will read "TCSS 143 or equivalent" to reflect this change.
6. A student with a transcribed non-passing grade in a 142-equivalent class (and no subsequent passing grade), taken within the past three years, must enroll in 142, and will not be allowed to petition to circumvent this requirement.
7. A student with a transcribed non-passing grade in a 143-equivalent class (and no subsequent passing grade), taken within the past three years, must enroll in 143, and will not be allowed to petition to circumvent this requirement.

The ADSD will be responsible for maintaining the list of *142-equivalent* and *143-equivalent* classes. Initially the ADSD will compile a proposed list of equivalent classes and submit them to the Undergraduate Committee for approval. This will happen during Spring Quarter 2006. The ADSD and UC will co-ordinate this process to make sure the

¹ The UC may appoint a qualified staff member to do this grading, at his/her discretion.

list is submitted in a time frame and with documentation that will ensure that the committee can act promptly in approving the list. The Undergraduate Committee is required to act on this approval during Spring Quarter 2006. Subsequent additions to the list will occur as part of the petition process described below.

8. The equivalency list is not intended to exclude courses that claim to cover similar material, but are felt not to do so "to UWT standards." Rather, the list should tend to be inclusive – including any course that (according to publicly available course material) covers roughly equivalent topics.
9. A student lacking the formal prerequisite may petition for a waiver of the relevant prerequisite. The argument may be based on relevant coursework (a course or courses the student feels is equivalent to the prerequisite, but is not on the equivalency list), on relevant work experience, or on a combination of the two. In the case of an argument based on relevant coursework, the student is responsible for supplying written documentation sufficient to allow the undergraduate committee to judge whether the course is equivalent (according to the standards listed above). If the course is judged to be equivalent, it will automatically be added to the equivalency list.
In the case of an argument based on relevant practical experience, the student must submit both a description of the circumstances, and a substantial code sample, written in Java, and demonstrating competency in the object-oriented programming paradigm.
10. The UC will be responsible for ensuring that petitions are acted upon in a timely manner – the UC and ADSD will work out a mutually agreeable schedule for the submissions of and decisions on these petitions.

Institute of Technology

Hiring and Evaluation of Part-time Instructors

Adopted April 14, 2006 by CSS voting faculty

This document reflects a philosophy that the Institute should structure its hiring process to ensure that only the most highly qualified faculty teach within the Institute. Once hired, faculty should find an environment that enables them to develop as teachers.

Hiring

Applicants to part-time instructor positions should provide the following material as part of the application packet:

- Curriculum Vita
- A Philosophy of Teaching statement along with documentation that both 1) provides evidence of teaching effectiveness, and 2) shows how the philosophy has been enacted in teaching in specific settings in the past, whether formal courses or informally. This document should not exceed three pages.
- A minimum of two professional references addressing teaching or teaching promise. These should be sent to the Director of the Institute.

Applicant interviews will consist of:

- A teaching demonstration of 30 minutes, followed by a 30 minute discussion on teaching with those attending.
- Meetings with groups of faculty and/or individuals, especially those teaching the same or similar courses.
- A meeting with the Director of the Institute.

Evaluation

The ultimate aim of any faculty evaluation process is to improve student learning. This leads to the following two concrete goals: 1) to help the faculty member develop as a teacher, and 2) to provide evaluative information for reappointment

decisions. This section outlines a faculty evaluation process for part-time instructors hired in UWT's Institute of Technology on a part-time, per-term basis so as to meet these goals.

Material collection

The part-time instructor will provide to the Institute office the following material in hardcopy form each quarter in which the part-time instructor is employed:

- *one week prior to the start of the term*: the course syllabus to be handed out to students, detailing course objectives, course topics and order, required text and readings, basis for assigning final grades, brief description of each of the graded student learning assessments used (labs, homeworks, exams, etc.).
- *at the time final grades are handed in*: all assessments (homeworks, exams) given to students.

These items will be placed in the part-time instructor's personnel file. This material will only be used for evaluative purposes, and ownership of this material remains with the part-time instructor. This material, along with end-of-term student course evaluations, will be reviewed by voting faculty and the Director at the time of reappointment of the part-time instructor.

Mentorship

A mentor is assigned during the first 3 quarters in which a part-time instructor is hired. The 3 quarters need not be consecutive. The mentor (which need not but can be the same from quarter to quarter) will be appointed by the Director, with advice as to choice of mentor from the voting faculty when the faculty votes to hire the part-time instructor faculty member. Mentors will generally be chosen based on a match of subject matter knowledge with the part-time instructor.

The mentor's role is to help the part-time instructor integrate into the program and the local academic culture. The mentor's responsibilities are 1) to meet with the part-time instructor prior to the start of the term to discuss the syllabus and request changes to it as appropriate, and answer any questions the part-time instructor might have, and 2) to be available for consultation by the part-time instructor during the term. At the pre-quarter meeting during the second and third terms in which the part-time instructor is hired, the part-time instructor and

mentor should also include a retrospective discussion on the previous quarter's teaching and, if the same course is being taught, changes that the part-time instructor will make to the course to incorporate lessons learned. All discussions between the mentor and part-time instructor are confidential, and are not to be used for evaluation purposes.

Part-Time Instructor Cooperation

In order to increase an part-time instructor's cooperation in this process, the following should be conditions of employment, and included in the appointment letter:

1. the part-time instructor will meet with their assigned mentor prior to the start of the term in which they are teaching, or as close to the start of the term as both are able;

the part-time instructor will provide materials to the Institute as indicated above.

Prof. Dr. habil. Võ Xuân Hòa
Nhịp 25 ngã 167 phố Trưng Bính Hanoi, Vietnam
Tel: 0903214339 E-Mail:hoavd@fpt.com.vn

Short CV

Name and Vorname: Vu Dinh Hoa

Birthday: 06. 11. 1955

In: Hanoi, Vietnam

Wife: Bui, Thi Kim,

Birthday: 08.11.1956

Dipl. Ökonom, Direktorin des Büros

„Development for Women and Children“

Daughter

1. Vu Kim Chi, 24 Jahre, , Student;
2. Vu Kim Trang ; 13 Jahre alt, 8. classe.

CV:

9/62 – 74: School

1974 – 1975: German at Highschool for foreign language in Hanoi.

1976 – 1984: Mathematic in Ernst-Moritz-Arndt-University Greifswald, Dr. rer. nat.

1985 – 1989 : Institut of Computerscience.

8/89 - 3/90 Praktikum in „Akademie der Wissenschaft der DDR“

3/91 - 11/95 Habilitation at the University „Berg-Akademie Freiberg“.

11/1996 Dr. rer. nat. habil at the University „Berg-Akademie Freiberg“.

9/98–12/ 02 „Institute for Information Technology“.

(Since 15/9/1999 Director of Center for young Talent FPT)

1/1/2003 Professor at University of Education Hanoi, Head of department
„Computerscience“.

Hanoi, 20. 1. 2006

PUBLICATIONS LIST

(Vũ Đình Hòa)

Công trình:

- Vu Dinh Hoa:** Hamiltonkreise in ungerichteten und schlichten Graphen. Ilmenau, Gemany 1982, 264-268.
- Vu Dinh Hoa:** Neue Existenzbedingungen fur Hamiltonkreise in Graphen. Karl-Marx-Stadt, Germany, 1983, 161-163.
- Vu Dinh Hoa:** Ein Struktursatz fur 2-fach zusammenhøngende Graphen mit grosser Minimalvalenz. Math. Nachr. 128 (1986), 151-160.
- Vu Dinh Hoa:** Định lý về cấu trúc của đồ thị với số đủ lớn các cạnh (*A Theorem for structure of graphs with large valences*). Actes de la troisieme conference de mathematiques du Vietnam, Ha noi 1986, 519-532.
- Vu Dinh Hoa và Đoàn Phúc:** Bài toán luồng và ứng dụng trong thực tế (Flow-problem and the Praxis). Tạp chí khoa học tính toán và điều khiển III (1987), số 4, 1- 4.
- Vu Dinh Hoa:** About the length of quasi-hamiltonian circuits in simple and undirected graph. ICOMIDC-Syposium on Math. Of Comput. HoChiMinh City 1988, 312- 321.
- Vu Dinh Hoa,** Über hamiltonizität in einer Klasse spezieller Graphen, J. Inform. Process. Cybernet. EIK **28** (1992) 1, 29-35.
- Vu Dinh Hoa,** A Remark on Hamiltonian Cycles, Math. Nachr. 157 (1992), 163-168.
- Vu Dinh Hoa,** On the length of longest dominating cycles in graphs, Discrete Mathematics **121** (1993),211-222.
- Vu Dinh Hoa,** On the Length of Maximal Dominating Cycle in 2-Connec-ted Graphs, J. Inform. Process. Cybernet. EIK **30** (1994) 1, 55-60.

- Vu Dinh Hoa**, *Vertexset containing in longest dominating cycles*, Acta Math. Vietnam. Volume **19** No 1 (1994), 25-30.
- Vu Dinh Hoa**, *A sharp lower bound for the circumference of 1-tough graphs with large degree sums*. J. of Graph Th., Vol. **20**, No. 2, 137-140 (1995).
- Vu Dinh Hoa**, *A sufficient condition for hamiltonian cycles in tough graphs*, "Vietnam Journal of Mathematics" **23** (1995), 57-67.
- Vu Dinh Hoa**, *Pathpartition number in tough graphs*, Discrete Mathematics **164** (1997) 291-294.
- Vu Dinh Hoa**, *Long cycles and Neighborhood Union in 1-tough graphs with large degree sums*. "Discussiones Mathematicae" Vol. **18**, No. **1** (1998), 1-13.
- Vũ Đình Hòa & Nguyễn Hữu Điển**: *Giới thiệu Mathematica và một số khả năng mở rộng của nó*. Tuyển tập báo cáo hội thảo "Phát triển công cụ tin học trợ giúp cho giảng dạy, nghiên cứu và ứng dụng toán học". Hà nội, 9-10/04/1999, p. 11-34.
- Nguyễn Thế Hoàn, Lê Hùng Sơn & Vũ Đình Hòa**: *ứng dụng Mathematica để khảo sát hàm số*. Tuyển tập báo cáo hội thảo "Phát triển công cụ tin học trợ giúp cho giảng dạy, nghiên cứu và ứng dụng toán học". Hà nội, 9-10/04/1999, p. 141-156.
- Vu Dinh Hoa**, *The complexity of some Flow-shop schedules with positive Task*. Tạp chí Tin học và Điều khiển học, T.16, S.3 (2000), 74-80. (Journal of Computer-Sciences).
- Vu Dinh Hoa**, *Ứng dụng lý thuyết đồ thị vào mô hình xã hội*. Proceedings of Scientific Conference Hanoi University of Technology, Hanoi 10-2001, p. 139-146.
- Vũ Đình Hòa & Đỗ Như An**: *Recognizing Dominating Cycles is NP-hard*. Tạp chí tin học và Điều khiển học, T. 18, S. 3 (2002), 223-227.
- Vu Dinh Hoa**: *Condition for Existence of Hamiltonian Cycles in Path-tough Graphs*, Proceeding of "Hội nghị toán học Toàn quốc lần thứ 6. Huế 7-10 September, 2002", p. 179-185.
- Vũ Đình Hòa và Đỗ Như An**, *Thuật toán đa thức xác định chu trình Hamilton của đồ thị từ bao đóng của nó*, Tạp chí phát triển khoa học và công nghệ (Đại học quốc gia thành phố Hồ Chí Minh) vol. **8** (4/2005), p. 5-10.
- Vũ Đình Hòa, Tạ Anh Sơn, Đỗ Thị Bích Ngọc**, *Mở rộng thuật toán Dijkstra*, Tạp chí phát triển khoa học và công nghệ (Đại học quốc gia thành phố Hồ Chí Minh) vol. **8** (8/2005), p. 5-11.
- Vũ Đình Hòa, Đỗ Như An và Nguyễn Hữu Xuân Trường**: *"Tính duy nhất của bao đóng đồ thị"*. Kỳ yếu hội thảo quốc gia "Một số vấn đề về công nghệ thông tin", Đà Nẵng 18-20 tháng 8 năm 2004, NXB Khoa học kỹ thuật, Hà nội 2005, Tr. 129-142 .
- Vũ Đình Hòa & Nguyễn Hữu Mùi**, *Giải thuật di truyền và chu trình Hamilton*. Kỷ yếu hội thảo quốc gia "Mét sè vấn đề về công nghệ thông tin", Sự kiện 18-20 tháng 8 năm 2004, NXB Khoa học kỹ thuật, Hà nội 2005, Tr. 143-151.
- Vũ Đình Hòa & Ahmed Ayache, Walied H. Sharif**, *A formula about trees*, Vietnam Journal of Mathematics, 9/2005.

Books

- Vu Dinh Hoa**, *Một số kiến thức cơ sở về hình học tổ hợp* (Foundation of Combinatorial Geometry). Nhà xuất bản Khoa học Giáo dục, Hanoi, 1999.
- Vu Dinh Hoa & H. J. Voss**: *Theorie der endlichen Graphen*. (Manuscript - Dresden 2000).

- Vũ Đình Hòa**, *Định lí và vấn đề của đồ thị hữu hạn*. (Problem and Theorems of finite Graphs). Nhà xuất bản Giáo dục, Hà nội, 2001.
- Vũ Đình Hòa**, *Một số kiến thức cơ sở về Graph hữu hạn*. (Foundation of finite Graphtheory). Nhà xuất bản Giáo dục, Đà Nẵng, 2002.
- Vũ Đình Hòa**, *Lý thuyết tổ hợp và bài tập ứng dụng*. (Combinationaltheory and exercises). Nhà xuất bản Giáo dục, Hà nội, 2002.
- Vũ Đình Hòa**, *Bất đẳng thức trong hình học*. (Inequality in Geometry). Nhà xuất bản Giáo dục, Đà Nẵng 2004.
- Vũ Đình Hòa**, *Toán rời rạc*. NXB ĐHSP Hà nội 2004.
- Vũ Đình Hòa**, *Lý thuyết đồ thị*. NXB ĐHSP Hà nội 2005.
- Vũ Đình Hòa & Đỗ Thị Bích Ngọc**, *Chương trình dịch*, NXB ĐHSP Hà nội.
- Vũ Đình Hòa & Đỗ Trung Kiên**, *Thuật toán và đánh giá độ phức tạp thuật toán*. NXB ĐHSP Hà nội.

Talk and Conferences:

- Vũ Đình Hòa**: *Về độ dài các chu trình tựa Hamilton (Quasil-hamiltonian cycles)*. Công trình hội thảo cơ sở toán học của tin học và bảo vệ tin, Hà nội 1987, 61- 65.
- Vũ Đình Hòa**: *Về bài toán chu trình tựa Hamilton*. Công trình hội thảo cơ sở toán học của tin học và bảo vệ tin, Hà nội 1987, 50- 60.
- Vũ Đình Hòa và Cao Đình Thi**: *Về bài toán lịch biểu dây chuyền với công đoạn dương (About the scheduling problems with positive Tasktimes)*, Công trình hội thảo cơ sở toán học của tin học và bảo vệ tin, Hà nội 1987, 139 - 143.
- Vũ Đình Hòa** : *On the length of longest dominating cycles in graphs*. The second polish Conference on Graph theory, Niedzica, September 24-28, 1990.
- Vũ Đình Hòa** : *Dominating Cycles in Graphs*. 10. Kolloquium über Kombinatorik, Bilefeld, 19-23. November 1990.
- Vũ Đình Hòa** : *Every 1-tough graph with $\sigma_3 \geq n + \kappa - 2$ is hamiltonian*. Bilefeld 15.-20.9.1991.
- Vũ Đình Hòa**: *Hinreichende Bedingung für die Existenz von Hamiltonkreisen in pathtough Graphen*. Kolloquium über Kombinatorik, Braunschweig Nowember 1993.
- Vũ Đình Hòa**: *Pathcover number and Hamiltonicity in tough graphs*. Second Kraków Conference of Graph Theory Poland, 1994.
- Vũ Đình Hòa**, *Độ phức tạp của bài toán phân bố lịch biểu cho m processors. (The complexity of schedules for m processors)*. VIII Informatics week Hà-nội Việt-nam 1998, 51-55.
- Vũ Đình Hòa**: *ứng dụng lý thuyết đồ thị vào mô hình xã hội*. Hội nghị toàn quốc lần thứ nhất về ứng dụng toán học, Hà nội 23-25/12/1999.
- Vũ Đình Hòa**: *Longest cycle in Graph and Hamiltonian Cycle in Special Graph*. Fourth internal Workshop in Graphtheory, Dresden 16.11.2000.

Vũ Đình Hòa: *Über Kreise in Graphen*. Seminarbericht, AL Mathematik TU Dresden, 7.12.2000.

Manuscripts:

Vũ Đình Hòa: *Longest Cycles and Restgraph in maximal non-hamiltonian graphs*. Proceeding of International Conference “Mathematical Foundation of Informatics“, Hanoi October 25-28, 1999 (gửi đăng).

Vũ Đình Hòa, *Homogeneously Traceable and Path-tough Graphs*, *Discussiones Mathematicae Graph Theory* (gửi đăng) 2002.

Vũ Đình Hòa, *Sufficient Conditions for Existence of Hamiltonian Cycles in Path-Tough Bipartite Graphs*, *Discrete Mathematics* (gửi đăng) 2002.

Vũ Đình Hòa và Đỗ Như An, *Đồ thị Hamilton tối đại*, *Tạp chí tin học và điều khiển học*, (nhận đăng).

Vũ Đình Hòa và Đỗ Như An, *Số đồ thị Hamilton tối đại*, *Tạp chí tin học và điều khiển học*, (gửi đăng).



Hanoi University of Education
Dai hoc Su pham Ha Noi
136 - Xuan Thuy Rd., Cau Giay, Hanoi, Vietnam
Tel: (84 4) 754 7101 - Fax: (84 4) 754 7721

24 January 2006

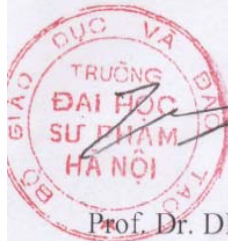
TO WHOM IT MAY CONCERN

Dear Sir/Madam,

I am writing on behalf of Hanoi University of Education, Vietnam to confirm that A/Professor, Dr. VU DINH HOA, a staff member of the university is invited as a visiting scholar at the University of Washington in the period proposed between October and December 2006.

This university will provide Dr Vu Dinh Hoa with full support including time available, all procedures of formalities to fulfill the host university requirements.

With all best wishes,



[Handwritten signature]
Prof. Dr. DINH QUANG BAO
Rector and President

ATTACHMENT V

Benedito G. Aguiar Neto, Dr. -Ing.
Rua João Julião Martins, 695
58.109-090 - Campina Grande - PB
Brazil

Prof. Dr. Orlando R. Baiocchi
Director of the Institute of Technology
University of Washington, Tacoma
PINKERTON BUILDING (PNK 317), 1702 BROADWAY, BOX 358426
Tacoma, Washington 98402-3100
USA.

Campina Grande, March 09, 2006

Dr. Baiocchi,

Following our previous contact, I formally express my interest in pursuing post-doctorate activities at the University of Washington. I intend to spend one year in this capacity beginning December, 2006.

Considering the research activities developed in your university, in the Institute of Technology of Tacoma and in the Campus of Seattle and my areas of interest in research, I believe that we could begin quite a profitable scientific cooperation between the Federal University of Campina Grande (**UFCG**) and University of Washington (**UW**).

Thus, I would like to develop at UW a project in the area of **Signal Processing Applied to Embedded Systems**. Especially, I would like to focus my area of research on the development of applications for speech recognition.

Later, I will be sending a detailed work plan of the research activities mentioned above. Besides these activities, I would like to propose an agreement of bilateral scientific cooperation between our two universities in the sense of supporting the Programs of Computer Engineering of UWT and of Electric Engineering of UFCG. Also, considering our mutual interest and involvement with activities related to the education in engineering, we could also plan some actions of mutual interest for the development and interaction of our undergraduate programs.

I would like to inform you that the post-doc activities will be entirely financed by the Brazilian government through specific programs of their funding agencies CAPES or CNPQ.

Therefore, I would request your kindness in analyzing my proposal in regarding the possibility of carrying out the post-doc activities at the University of Washington.

Respectfully,

Prof. Benedito Guimarães Aguiar Neto, Dr. -Ing.

Benedito Guimarães Aguiar Neto, Dr.-Ing., Born: October 09, 1954,
Brazilian citizen.

Marital Status: Married with two children.

Current position: *Professor Titular* (Full Professor)

Institution:

Universidade Federal de Campina Grande - UFCG
Unidade Acadêmica de Engenharia Elétrica (Department of Electrical Engineering)
Av. Aprígio Veloso, 882
58.109-970 - Campina Grande – Paraíba – Brazil
Phone/Fax: +55 83-3310.1534
E-mail: bganeto@cct.ufcg.edu.br or bganeto@uol.com.br

Residence:

Rua João Julião Martins, 695
58.109-90 - Campina Grande – PB
Phone: +55 83-33331609

Educational Qualifications:

Bachelor Degree: Electrical Engineering, Federal University of Paraíba. Brazil,
December 1997;
Master Degree: Electrical Engineering, Federal University of Paraíba. Brazil, April
1982;
Doctor Degree: Electrical Engineering, *Fachbereich Elektrotechnik, Institut für
Fernmeldetechnik, Technische Universität Berlin*. Germany, November
1987.

Theses:

Master's: “Adaptive Coding Division Multiplex with Hybrid Error Control – ARQ/FEC”,
Federal University of Paraíba, Brazil, 1982

Doctor's (Dr.-Ing.): *Signalaufbereitung in Digitalen Sprachübertragungs-systemen*,
Germany 1987.

Professional Experience:

1978-1987 Assistant Professor, Department of Electrical Engineering, Universidade
Federal da Paraíba.
1988-1996 Associate Professor, Department of Electrical Engineering, Federal
University of Paraíba.
1992-1992 Visiting Professor, *Institut für Fernmeldetechnik, Technische Universität
Berlin*, Germany
1996-2002 Full Professor, Department of Electrical Engineering, Federal University
of Paraíba
2002 Full Professor, Department of Electrical Engineering, Universidade
Federal University of Campina Grande.
1988-1989 Vice-Coordinator for undergraduate studies, Department of Electrical
Engineering, Federal University of Paraíba

- 1990-1993 Coordinator for undergraduate studies, Department of Electrical Engineering, Federal University of Paraiba
- 1993-1995 Vice-Coordinator for undergraduate studies, Department of Electrical Engineering, Federal University of Paraiba
- 1992 Tutor of the Special Training Program of the Undergraduate Electrical Engineering Course, supported by Education Ministry, Department of Electrical Engineering, Federal University of Paraiba.
- 1993-1996 Advisor for Undergraduate Studies, Center for Science and Technology, Federal University of Paraiba
- 1994-1996 Member of the Graduate Studies Council, Department of Electrical Engineering, Federal University of Paraiba
- 1994-1996 Coordinator of the Automation and Signal Processing Laboratory, Department of Electrical Engineering, Federal University of Paraiba
- 1996-1998 Member of the Finance Board of the Brazilian Engineering Education Association (*ABENGE*)
- 1997-1998 Coordinator of the Reengineering Program for Engineering Educations, at the Center for Science and Technology, Federal University of Paraiba, supported by Brazilian National Council for Scientific and Technological Research (*CNPq*), Agency for Founding Studies and Projects (*FINEP*) and Coordination for Improvement Graduate Personnel (*CAPES*).
- 1997-2005 Member of the Direction Board of the Technological Park of Paraiba State Foundation (Fundação Parque Tecnológico da Paraíba – PaqTcPb), as representative of the scientific community State of Paraíba.
- 1997-2002 Director of the Center for Science and Technology, Federal University of Paraíba
- 2002-2005 Director of the Center for Science and Technology, Federal University of Campina Grande
- 1997-2005 Member of the University Board at the Federal University of Paraíba/Federal University of Campina Grande
- 2003-2005 President of the Direction Board of the Technological Estate of the Paraíba State Foundation (*Fundação Parque Tecnológico da Paraíba – PaqTcPb*), Campina Grande, Brazil
- 1999-2004 Editor of the Journal of Engineering Education of the Brazilian Engineering Education Association (*ABENGE*)
- 2003 Member of the Deliberative Board of the Presbyterian University Mackenzie, São Paulo, Brazil
- 2005 Member of the National Advisory Committee Evaluation of Brazilian Universities, Ministry of Education.
- 2005 Member of the National Advisory Committee for the National Performance Examination of undergraduate Students Ministry of Education.

Besides, I have actively participated in research activities, projects and teaching at the Federal University of Paraiba/Federal University of Campina Grande and developed several others professionals activities such as:

- General Chairman of the XXXIII Brazilian Congress for Engineering Education (*COBENGE`2005*), September 12-15, Campina Grande, Brazil 2005

- General Chairman of the International Telecommunication Symposium (ITS 2002), September 8-12, Natal, Brazil 2002.
- Member of the Editorial Board of the Journal of Engineering Education of the Brazilian Engineering Education Association (ABENGE)
- Member of the Brazilian Society for the Development of Science (SBPC);
- Member of the Brazilian Society of Telecommunications (SBrT)
- Member of the Brazilian Engineering Education Association (ABENGE)
- Member of the Advisory Committee for Education of the Regional Board of Engineering, Architecture and Agronomy (CREA-PB)
- Supervision of graduate and undergraduate students
- Manager of the agreement between Federal University of Paraiba and The Technische Universität Berlin, Germany.
- Ad-hoc consultant for Brazilian National Council for Scientific and Technological Research (CNPq), and Coordination for Improvement of Graduate Personnel (CAPES).

Areas of Research Interest

- Speech Recognition and Speaker Recognition and Verification
- Enhancement of Speech and Audio Signals.
- Data Compression: vector quantization, linear predictive coding, and transform coding .
- Text-to-Speech Synthesis: prosody modelling, concatenative synthesis
- Real-Time Embedded Systems for Digital Signal Processing and Communications Systems Applications.

Courses taught for graduate and undergraduate students, engineers and technicians from telecommunications companies

- Digital Processing and Transmission of Speech
- Digital Transmission of Information
- Information Theory
- Speech and Image Processing
- Digital Baseband Data Transmission

Projects Developments with sponsorship

- Study and Optimization of Methods for Enhancement of Speech Signals Disturbed in Transmission Systems (CNPq);
- Development and Optimization of Methods for Voice Communication Man-Machine in Presence of Noise (CNPq)
- Improving Speech Quality and Intelligibility in Environment Acoustic Noise (CNPq)
- Coding and Enhancement of Speech and Audio Signals (DAAD/CAPES)
- Reengineering of the Engineering Education (Manager of the Project) (FINEP/CAPES/CNPq)

Short Biography

Benedito Guimarães Aguiar Neto was born in *São Luis*, State of *Maranhão*, Brazil in 1954. He received his Bachelor Degree in Electrical Engineering, 1977. his Master Degree in Electrical Engineering, 1982, both from *Federal University of Paraíba (UFPB)*, Brazil, and his Doctor Degree, in the area of Speech Processing, from *Technische Universität Berlin, Institut für Fernmeldetechnik*, Berlin, Germany, in 1987.

From august 1978 to march 2002 he was Professor at the Department of Electrical Engineering, Federal University of Paraíba (UFPB), where he held in 1996 a position as Full Professor. Since April 2002 he has been Full Professor at the Academic Unit of Electrical Engineering, Federal University of Campina Grande (UFCG).

At the Department of Electrical Engineering of UFPB, Professor B.G. Aguiar Neto was Coordinator of the Undergraduate Course, Coordinator of the Automation and Signal Processing Laboratory and member of the Graduate Electrical Engineering Program Board.

At the Center of Science and Technology (CCT) of UFPB he was Undergraduate Adviser from 1993 to 1996 and Coordinator of the Reengineering Engineering Educations Program from 1996 to 1998.

Dr. Aguiar Neto was Dean of the Center of Science and Technology (CCT) of UFPB and UFCG from 1997 to 2005.

He has been involved actively in Engineering Educations activities. He was editor of *Revista de Ensino de Engenharia*, published by the Brazilian Association of Engineering Education (*ABENGE*), where he is currently member of your Editorial Board. He is member of the National Advisory Committee for Evaluation of Brazilian Universities Ministry of Education and member of the National Advisory Committee for the National Performance Examination of Graduate Students of Education Ministry.

He is Member of the Deliberative Board of the Presbyterian University Mackenzie, São Paulo, Brazil.

He is tutor of the Special Training Program of the Undergraduate Electrical Engineer Course, UFCG, supported by Brazilian Education Ministry, and as a supervisor of Undergraduate and Graduate students, has supervised 12 Master Dissertations and four Doctor Thesis at the Graduate Electrical Engineering Program, UFPB/UFCG. He published over 100 scientific papers.

He is involved with teaching and research activities in the areas of Digital Speech Signal Processing and Transmission, and has special interest in developing of embedded real-time systems and Engineering Education. His research interests include, Speech and Image Coding, Speech and Speaker Recognition, Text-to-speech Synthesis and Speech Enhancement for Digital Transmission.

Professor Benedito Guimarães Aguiar Neto is a member of the Brazilian Telecommunications Society (*SBrT*), Brazilian Society for the Development of Science (*SBPC*) and Brazilian Association of Engineering Education (*ABENGE*).

Publications

[1] Costa, S. L. do N., Fachine, J.M., Aguiar Neto, B.G.

- “Técnicas de Processamento Digital de Sinais Aplicadas à Terapia da Fala”. *In: IV Congresso Iberoamericano sobre Tecnologias de Apoio a Portadores de Deficiência – IBERDISCAP 2006*, vol. 2, p. 273-281, Vitória-ES, Brasil, February 2006.
- [2] Alves, R. L., Fachine, J.M., Aguiar Neto, B.G. Freire, R.C.S, Costa, S. L. do N. Maia, Wanderley.
“Uma alternativa mais Acessível para Transdutores Táteis”. *In: IV Congresso Iberoamericano sobre Tecnologias de Apoio a Portadores de Deficiência – IBERDISCAP 2006*, vol. 1, p. 261-263, Vitória-ES, Brasil, February 2006.
- [3] de Souza, D.C., Krikidis, I.Naviner, L.A.B., de Barros, M.A., Aguiar Neto, B.G.
“Implementation of a Digital Receiver for DS-CDMA Comunicatios Systems using HW/SW Codesign”. *In: Proceedings of the 48th IEEE Midwest Symposium on Circuits and Systems (MWSCAS 2005)*, Cincinnati, USA, August 2005.
- [4] de Souza, D.C., Krikidis, I, Naviner, L.A.B., J.-L.Danger, de Barros, M.A., Aguiar Neto, B.G
“Heterogeneous Implementation of a Rake Receiver for DS-CDMA Communication Systems”. *In Proceedings of the 12th IEEE International Conference on Electronics, Circuits and Systems (ICECS 2005)*, Gammarth, Tunisia, December 2005.
- [5] de Souza, D.C., Naviner, L.A.B., de Barros, M.A., Aguiar Neto, B.G.
“Proposition d’un algorithme de partitionnement matériel/logiciel, optimisé pou dès systemes multi-modes reconfigurables”. *In: Actes dès 8^{èmes} Journées Nationales du Réseau Doctoral de Microélectronique (JNRDM 2005)*, p. 152-154, Paris, France, Mai 2005
- [6] Madeiro, F., Lopes, W.T.A., Alencar, M.S., Aguiar Neto, B.G.
“Aprendizagem Competitiva com Consciência Aplicada ao Projeto de Dicionários para Quantização Vetorial de Voz”. *In VIII Congresso Brasileiro de Redes Neurais (CBRN 2005)*”, Anais do CBRN 2005, Natal, Brasil, October 2005.
- [7] Aguiar Neto, Fachine, J.M., do Nascimento, J.L., de Vasconcelos, M.C.R., Pontes, M.G.
“Um Ambiente Computacional para auxílio ao Ensino na Área de Processamento Digital de Sinais de Voz”. *In: XXXIII Congresso Brasileiro de Ensino de Engenharia-COBENGE 2005*, Anais em CD do COBENGE 2005, Campina Grande-PB, Brasil, September 2005.
- [8] da Costa Neto, M.L., Aguiar Neto, B.G., Bezerra, M.A.
“Geração automática da Prosódia em um Sistema Texto-Fala Concatenativo para a Língua Português Falada no Brasil”. *In: VIII Congresso Nacional e II Congresso Internacional de Fonética e Fonologia*, Anais 2005, São Luis-Ma, Brasil, November 2005.

- [9] Lopes, W.T.A, Madeiro, F., Aguiar Neto, B.G, Alencar, M.S.
“Combining Modulation Diversity and Index Assignment to Improve Image VQ for a Rayleigh Fading Channel Learning and Nonlinear Models”. *Learning and Nonlinear Models – Revista da Sociedade Brasileira de Redes Neurais*, vol. 1, n.3, p.160-171, 2004.
- [10] Lopes, W.T.A, Madeiro, F., Aguiar Neto, B.G., Galdino, J.F. Alencar, M.S.
“Diversidade em Modulação Aplicada a Canais de Comunicações Móveis: Efeito dos Erros de Estimção de Canal na Transmissão de Imagens”. *Revista da Sociedade Brasileira de Telecomunicações*, vol. 1, n. 3, p.172-186, 2004.
- [11] Fechine, J.M, Aguiar Neto, Madeiro, F.
“Reconhecimento Automático de Identidade Vocal Utilizando QV e HMMs”. *In Simpósio Brasileiro de Redes Neurais-SBRN-2004*, São Luis-Ma, September 2004.
- [12] da Costa Neto, M.L., Aguiar Neto, B.G., Bezerra, M.A.
“Uma Nova Abordagem sobre Modelagem Prosódica para um sistema Texto-Fala Concatenativo”. *In: XXI Simpósio Brasileiro de Telecomunicações – SBT2004*, Anais 2004, Belém-Pa, Brasil, September 2004.
- [13] de Souza, D.C., Naviner, L.A.B., de Barros, M.A., Aguiar Neto, B.G.
“Knowledge Representation and Quality Criteria for Optimized Partitioning Methods”, *In: 11th International Conference on Mixed Design of Integrated Circuits and Systems (MIXDES 2004)*, Szczecin, Poland, June 2004.
- [14] de Souza, D.C., Naviner, L.A.B., de Barros, M.A., Aguiar Neto, B.G.
“Representation de la Connaissance et Critères de Qualité pour des Méthodes de Partitionnement Optimisées”. *In Journées Nationales du Réseau Doctoral de Microélectronique (JNRDM) 2004*, Marseille, França, Maio de 2004
- [15] Madeiro, F., Lopes, W.T.A, Aguiar Neto, B.G., Alencar, M.S.
“Aprendizagem Competitiva versus Algoritmo LBG quanto à Complexidade Computacional”. *In: VI Congresso Brasileiro de Redes Neurais (CBRN'2003)*,p.37-42, São Paulo, Brasil, October 2003.
- [16] Madeiro, F., Lopes, W.T.A, Aguiar Neto, B.G., Alencar, M.S.
Combining Modulation Diversity and Index Assignment to Improve Image VQ for a Rayleigh Fading Channel”. *In VI Congresso Brasileiro de Redes Neurais (CBRN'2003)*,p.55-60, São Paulo, Brasil, October 2003
- [17] Madeiro, F., Lopes, W.T.A, Aguiar Neto, B.G., Alencar, M.S
Complexidade Computacional de um algoritmo Competitivo Aplicado ao Projeto de Quantizadores Vetoriais. *In: VI Congresso Brasileiro de Redes Neurais (CBRN'2003)*,p.43-48, São Paulo, Brasil, October 2003

- [18] Madeiro, F., Lopes, W.T.A., Aguiar Neto, B.G., Alencar, M.S.
“Construção de Dicionários Voltados para a Redução da Complexidade Computacional da Etapa de Codificação da Quantização Vetorial”. *In: VI Congresso Brasileiro de Redes Neurais (CBRN-2003)*, São Paulo, Brasil, October 2003
- [19] de Souza, D.C., Naviner, L.A.B., de Barros, M.A., Aguiar Neto, B.G.
“On Relevant Quality Criteria for Optimized Partitioning Methods”. *In: The 46th IEEE International Midwest Symposium on Circuits and Systems*, Cairo, Egypt, December 2003.
- [20] de Souza, D.C., Naviner, L.A.B., de Barros, M.A., Aguiar Neto, B.G.
“On Algorithms and Methodologies for Optimized Partitiniog”. *In: Journées Scientifique Francophones (JSF’03)*, Tozer, Tunisia, December 2003.
- [21] de Souza, D.C., Naviner, L.A.B., de Barros, M.A., Aguiar Neto, B.G.
Representação do Conhecimento e Critérios de Qualidade para o Particionamento Hardware/Softaware”. *In: Congresso Brasileiro de Gestão do Conhecimento (KM Brasil 2003)*, São Paulo, Brasil, November 2003.
- [22] Lopes, W.T.A., Madeiro, F., Aguiar Neto, B.G., Alencar, M.S.
“Diversidade em Modulação Aplicada a Canais de Comunicação Móveis: Efeito dos Erros de Estimacão de Canal na Transmissão de Imagens”. *In: Simpósio Brasileiro de Telecomunicações (SBT 2003)*, Rio de Janeiro, Brasil, September 2003.
- [23] Fechine, J.M., Madeiro, F., Vilar, R.M., Aguiar Neto, B.G., Alencar, M.S.
“Algoritmo Competitivo Aplicado ao Reconhecimento de Identidade Vocal de Locutores”. *In: V Congresso Brasileiro de Redes Neurais (CBRN’2001)*, p.619-624, Rio de Janeiro, Brasil, April 2001.
- [24] Madeiro, F., Lopes, W.T.A., Alencar, M.S., Aguiar Neto, B.G.
“Avaliação dos Dicionários PCA para Uso em Transmissão de Voz por Canal Ruidoso”. *In: XIX Simpósio Brasileiro de Telecomunicações (SBT2001)*, Fortaleza, Brasil, September 2001.
- [25] Lopes, W.T.A., Madeiro, F., Alencar, M.S., Aguiar Neto, B.G.
“Quantização Vetorial Robusta Utilizando Simulated Annealing”. *In: V Congresso Brasileiro de Redes Neurais (CBRN’2001)*, p. 601-606, Rio de Janeiro, Brasil, April 2001.
- [26] Madeiro, F., Lopes, W.T.A., Alencar, M.S., Aguiar Neto, B.G.
“Um Método para Redução da Complexidade Computacional da Etapa de Codificação da Quantização Vetorial”. *In: XIX Simpósio Brasileiro de Telecomunicações (SBT2001)*, Fortaleza, Brasil, September 2001

- [27] Rodrigues, J.A., Aguiar Neto, B.G., Costa Neto, M.L.
“O Papel de Conversores Texto-Fala no Ensino de Engenharia “. *In: Congresso Brasileiro de Ensino de Engenharia (COBENGE 2001)*, p.701-704, Porto Alegre, Brasil, September 2001.
- [28] Madeiro, F., Vilar, R.M., Aguiar Neto, B.G, Alencar, M.S.
“An Algorithm for Voice Waveform VQ Codebook Design Based on PCA”.
Revista da Sociedade Brasileira de Telecomunicações, v.15, n.2, p.59-69,
December 2000.
- [29] Aguiar Neto, B.G., Borges, M.N.
“Diretrizes Curriculares par os Cursos de Engenharia – Análise Comparativa das Propostas da ABENGE e MEC”. *Revista de Ensino de Engenharia da ABENGE*, v.19, n.02, p.1-8, December 2000.
- [30] Madeiro, F., Vajapeyam, V. M., Aguiar Neto, B. G.
“A Comparative Study of LBG and SOA Codebooks Concerning the Computational Complexity of the Minimum Distortion Encoding for VQ” *In: Sixth Brazilian Symposium on Neural Networks*, Proceedings IEEE, Computer Society, v.1, p. 243-248. Rio de Janeiro, Brasil, November 2000.
- [31] Lopes, W. T. A., Madeiro, F., Alencar, M. S., Aguiar Neto, B. G.
“An Index Assignment Algorithm for Improving the Transmission of Vector-Quantized Images over Rayleigh Fading Channel”. *In: XVIII Simpósio Brasileiro de Telecomunicações (SBT2000)*, Gramado, Brasil, September 2000.
- [32] Madeiro, F., Vajapeyam, V. M., Aguiar Neto, B. G. Alencar, M.S.
“Codificação de Voz Baseada em Wavelets e Quantização Vetorial” *In: XVIII Simpósio Brasileiro de Telecomunicações (SBT2000)*, Gramado, Brasil, September 2000.
- [33] Aguiar Neto, B. G., Lima, G. N., Queiroz, A. A. N.
“Diagnóstico sobre o Nível de Consciência Ecológica nas Empresas dos Segmentos de Couro, Borracha e Plástico no Estado da Paraíba” *In: XX Encontro Nacional de Engenharia de Produção (ENEGEP`2000)*, Rio de Janeiro, Brasil, November 2000.
- [34] Madeiro, F., Vajapeyam, V. M., Morais, M. R., Aguiar Neto, B. G., Alencar, M. S.
“Multiresolution Codebook Design for Wavelets/VQ Image Coding”. *In: 15 th International Conference on Pattern Recognition (ICPR`2000)*, v.1, p.79-82, Barcelona, Espanha, September 2000.
- [35] Madeiro, F., Vajapeyam, V. M., Aguiar Neto, B. G. Alencar, M.S.

- “On the Performance of a Competitive Algorithm for VQ Codebook Design Applied to Speech and Image Coding”. In: *4th. World Multiconference on Systemics, Cybernetics and Informatics (SCI'2000)*, v.1, p.183-188, Orlando, USA, July 2000.
- [36] Lopes, W. T. A., Madeiro, F., Alencar, M. S., Aguiar Neto, B. G.
“Simulated Annealing for Robust VQ: Improving Image Transmission through a Fading Channel. In: *Sixth Brazilian Symposium on Neural Networks*, Proceedings IEEE, Computer Society, v.1, p. 243-248. Rio de Janeiro, Brasil, November 2000.
- [37] Lopes, W. T. A., Madeiro, F., Alencar, M. S., Aguiar Neto, B. G.
[38] “Space-Time Codes Applied to the Transmission of Vector-Quantized Images over a Rayleigh Fading Channel”. In: *4th. World Multiconference on Systemics, Cybernetics and Informatics (SCI'2000) and the 6th International Conference on Information Systems Analysis and Synthesis (ISAS'2000)*, Orlando, USA, July 2000.
- [39] Lopes, W. T. A., Madeiro, F., Alencar, M. S., Aguiar Neto, B. G.
“Transmissão de Sinais de Voz Quantizados Vetorialmente através de Canais com Desvanecimento Utilizando Múltiplas Antenas” In: *IX Simpósio Brasileiro de Microondas e Optoeletrônica (SBMO'2000)*, João Pessoa, Brasil, August 2000.
- [40] Dantas, P. V., Barros, P. R., Aguiar Neto, B. G.
“Construção de um Guia Interativo para o Ensino do MATLAB”. In: *VIII Encontro de Iniciação Científica da UFPB*, Anais de Resumos, João Pessoa, Brasil, November 2000
- [41] Barbosa, N. B., Costa Neto, M. L., Aguiar Neto, B. G.
“Identificação Automática das Unidades Fonéticas de um Conversor Texto-Fala para a Língua Portuguesa” In: *VIII Encontro de Iniciação Científica da UFPB*, Anais de Resumos, João Pessoa, Brasil November 2000.
- [42] Cruz, L. C., Silva, R. A., Aguiar Neto, B. G.
“Utilização de Novas Mídias no Ensino de Eletromagnetismo” In: *VIII Encontro de Iniciação Científica*, Anais de Resumos, João Pessoa, Brasil November 2000.
- [43] Madeiro, F., Vilar, R.M., Fachine, J.M, Aguiar Neto, B.G.
“A Self-Organizing Algorithm for Vector Quantizer Design Applied to Signal Processing”. *International Journal of Neural Systems*, v.9, n.3, p.219-226, June 1999.
- [44] Fachine, J.M, Madeiro, F., , Aguiar Neto, B.G., Alencar, M.S.

- “Building acoustic Patterns for Speaker Recognition through a Self-Organizing Algorithm”. *In: 2º Conference on Telecommunication (CONFITELE 99)* Sesimbra, Portugal, April 1999.
- [45] Madeiro, F., Fachine, J.M, Aguiar Neto, B.G., Alencar, M.S.
“Designing Codebooks for Speech Compression through a Neural Network Algorithm”. *In: 2º Conference on Telecommunication (CONFITELE 99)* Sesimbra, Portugal, April 1999
- [46] Aguiar Neto, B. G., Costa Neto, M. L., Sousa, M. A. T.
“Concepção de um Dicionário para um Sintetizador Texto-Fala Concatenativo” *In: XVII Simpósio Brasileiro de Telecomunicações da SBT, (SBT99)*, v.1. p.564 – 569, Vila Velha, Brasil, September 1999.
- [47] Araújo, M. S., Aguiar Neto, B. G.
“O Desempenho dos Cursos de Graduação em Engenharia: o que mostra o Exame Nacional de Cursos” *In: XXVII Congresso Brasileiro de Ensino de Engenharia - COBENGE, 1999*, Natal, Brasil, September 1999.
- [48] Madeiro, F., Fachine, J.M, Aguiar Neto, B.G., Alencar, M.S.
On the Performance of Objective Quality Measures for Evaluating Vector-Quantized Images. *In: XVII Simpósio Brasileiro de Telecomunicações da SBT, (SBT99)*, v.1. p.564 – 569, Vila Velha, Brasil, September 1999
- [49] Barros, M. A., França, R. M. V., Aguiar Neto, B. G., Cabral, Á. M.
“Programa de Formação de Empreendedores e Geração de Empresas de Base Tecnológica para o Centro de Ciências e tecnologia da UFPB”. *In: I Encontro Nacional de Empreendedorismo, (ENEMP99)*, Florianópolis, Brasil, August 1999.
- [50] Aguiar Neto, B. G., Barros, M. A., Moura, J. A. B., Cabral, Á. M., Luna, J. R.
‘Um Programa de Iniciação à Inovação Tecnológica em Informática’ *In: I Seminário internacional sobre Gestão da Inovação Tecnológica, INOVA’99*, v.1. p.182 - 190 Fortaleza, Brasil, 1999.
- [51] Madeiro F., Aguiar Neto, B. G., França, R. M. V., Alencar, M. S.
“Voice Waveform VQ Codebook Design Based on PCA”. *In: XVII Simpósio Brasileiro de Telecomunicações da SBT, (SBT99)*, v.1. p.115 - 120, Vila Velha, Brasil, September 1999.
- [52] Lopes, W. T. A., Madeiro, F., Alencar, M. S., Aguiar Neto, B. G.

- “Uso da Codificação na Transmissão de Imagens Quantizadas Vetorialmente em Canal Gaussiano com Desvanecimento”. *In: XVII Simpósio Brasileiro de Telecomunicações da SBT, (SBT99)*, p.748-753, Vila Velha, Brasil, September 1999.
- [53] Sirinivasan, V. M., Madeiro, F., Aguiar Neto, B. G.
“Análise da Complexidade da Quantização Vetorial” *In: VI Encontro de Iniciação à Docência da UFPB, Anais de Resumos*, João Pessoa, Brasil, November 1999
- [54] Donato, S. G., Costa Neto, M. L., Aguiar Neto, B. G.
“Implementação de um Sintetizador de Voz Aplicado à Transcrição Texto-Fala para a Língua Portuguesa” *In: VI Encontro de Iniciação à Docência da UFPB, Anais de Resumos*, João Pessoa, Brasil, November 1999.
- [55] Sousa, M. A. T., Costa Neto, M. L., Aguiar Neto, B. G.
“Implementação de um Dicionário de Unidades Acústicas para um Conversor Texto-Fala para a Língua Portuguesa” *In: VI Encontro de Iniciação à Docência da UFPB, Anais de Resumos*, João Pessoa, Brasil, November 1999.
- [56] Silva, S. A. D., Fachine, J. M., Aguiar Neto, B. G.
“Implementação de um Sistema de Reconhecimento da Identidade Vocal de Locutor” . *In: VI Encontro de Iniciação à Docência da UFPB, Anais de Resumos*, João Pessoa, Brasil, November 1999.
- [57] Madeiro, F., França, R. M. V., Aguiar Neto, B. G.
“A Self-Organizing Algorithm for Image Compression” *In: Vth Brazilian Symposium on Neural Network, (IEEE SBRN'98)*, Proceedings IEEE, Computer Society, 1998. v.1. p.146 – 150, Belo Horizonte, Brasil, June 1998.
- [58] Madeiro, F., Fachine, J.M, Aguiar Neto, B.G.
“Algoritmo Modificado de Kohonen Aplicado ao Projeto de Dicionários de Padrões Acústicos para Reconhecimento de Locutor”. *In: Vth Brazilian Symposium on Neural Network, (IEEE SBRN'98)*, p.22-26, Belo Horizonte, Brasil, June 1998.
- [59] Madeiro, F., França, R. M. V., Aguiar Neto, B. G
“Avaliação de Desempenho de um Algoritmo Modificado de Kohonen em Quantização Vetorial”. *In: Vth Brazilian Symposium on Neural Network, (IEEE SBRN'98)*, p.41-46, Belo Horizonte, Brasil, June 1998.
- [60] Costa Neto, M. L., Figueredo, F. A., Navigner, L. B., Aguiar Neto, B. G.
“Analisador de Texto para um Sistema Texto-Fala para a Língua Portuguesa” *In: III Encontro para o Processamento Computacional de Português Escrito e*

- Falado - PROPOR '98*, Anais do PROPOR, v.1. p.17 – 22, Porto Alegre, Brasil, 1998.
- [61] Luciano, B. A., Aguiar Neto, B. G.
“A Aula Operatória: Algumas Experiências de Ensino Centrado no Estudante”
In: XXVI Congresso Brasileiro de Ensino de Engenharia, v.1. p.1321-1330, 1998, São Paulo, Brasil, October 1998.
- [62] Madeiro, F., França, R. M. V., Aguiar Neto, B. G.
“Building Voice Patterns Inside Vector Quantization Codebooks with a Modified Kohonen’s Algorithm” . *In: International Conference on Speech Processing (ICSP-97)*. .Anais do ICSP-97, v.1. p.291 - 295, Seoul, Korea 1997.
- [63] Fachine, J. M., Aguiar Neto, B. G.
“Comparing the Effectiveness of Predictive Techniques for Extraction of Feature Vectors to Speaker Verification” *In: International Conference on Speech Processing (ICSP-97)*. Anais do ICSP-97. v.2. p.601 - 605 Seoul, Korea 1997.
- [64] Figueredo, F. A., Aguiar Neto, B. G.
“Uma Nova Abordagem para o Sistema Conversão Texto-Fala para a Língua Portuguesa” *In: XV Simpósio Brasileiro de Telecomunicações (SBT 1997)*. Anais do XV SBT, v.1. p.328 – 331, Recife, Brasil, September 1997
- [65] Aguiar Neto, B. G., França, R. M. V.
“Designing Codebooks For Voice Waveform Vector Quantization Based On The Karhunen-Loeve Transform” *In: International Telecommunication Symposium (ITS-96)*, Acapulco, México 1996.
- [66] Brandão, Z. N., Aguiar Neto, B. G.
“Interconexão de Redes Locais Usando Fibras Ópticas” *In: VII Simpósio Brasileiro de Microondas e Optoeletrônica e XIV Simpósio Brasileiro De Telecomunicações*, 1996, Curitiba, Brasil, September 1996.
- [67] Aguiar Neto, B. G., Costa, S. L. C.
“An Avaluation of An Adaptive Multichannel System for Speech Enhancement with Automatic Phase Aligment *In: International Conference On Acoustic Speech And Signal Processing ICASSP-95, Detroit, USA 1995*.
- [68] França, R. M. V., Aguiar Neto, B. G.
“Comparing Self-Organizing Algorithms for Vector Quantization”. *In: Engineering Applications of Neural Networks*. *Engeneiering Aplications of Neural Networks*, Otaniemi, Finlândia 1995.

- [69] Pimenta, N. L., Aguiar Neto, B. G.
“Estimação dos Sons Básicos da Voz Através da Análise de Parâmetros Temporais” *In: Congresso Nacional de Matemática Aplicada e Computacional CNMAC-95*, v. 2, p.700-704, Curitiba, Brasil 1995.
- [70] Cunha, M. X. C., Aguiar Neto, B. G.
“Redução de Ruídos Impulsivos em Sinais de Áudio Utilizando Método Adaptativo de Estimação Seletiva” *In: XIII Simpósio Brasileiro de Telecomunicações (SBT95)*, v.2, p.678-683, Águas de Lindóia, São Paulo, September 1995.
- [71] Costa, W. C. A., Aguiar Neto, B. G.
“An Automatic Isolated Word Recognition System Using Hidden Markov Models”
In: Third International Conference on Industrial and Applied Mathematics (ICIAM-95), Book of Abstracts, p. 259, Hamburg, Germany, July 1995.
- [72] Fachine, J. M., Aguiar Neto, B. G.,
“Considerations on Estimation of Parameters to Speaker Verification” *In: Third International Conference on Industrial And Applied Mathematics (ICIAM95)*, Book of Abstracts p. 278, Hamburg, Germany, July 1995
- [73] Costa, S. L. C., Aguiar Neto, B. G.
“Estimation of Power Spectral Densities to Enhance Degraded Signals Using
- [74] A Frequency Domain Wiener Filter” . *In:Third International Conference on Industrial And Applied Mathematics (ICIAM95)*, Book of Abstracts, Hamburg, Germany, July 1995
- [75] França, R. M. V., Aguiar Neto, B. G.
“On The Convergence Of A Modified Kohonens Algorithm For VQ”
In:Third International Conference on Industrial And Applied Mathematics (ICIAM95), Book of Abstracts p.471, Hamburg, Germany, July 1995.
- [76] Aguiar Neto, B. G., Lima, L. B.
“Análise e Caracterização de Sinais de Voz Para Classificação Fonética da Língua Portuguesa” *In: II Simpósio de Iniciação Científica e Tecnológica de Pernambuco (SICTEC-95)*, Anais de Resumos, Recife, Brasil, Setembro de 1995.
- [77] Madeiro, F., Aguiar Neto, B. G.
Distâncias Métricas Aplicadas ao Reconhecimento de Padrões *In: III Encontro de Iniciação Científica da UFPB*, Anais de Resumos, João Pessoa, Brasil, November 1995.
- [78] Madeiro , F. M., Aguiar Neto, B. G.

- “Redes Neurais Artificiais Aplicadas Ao Reconhecimento de Padrões de Sinais de Voz” *In: II Simpósio de Iniciação Científica e Tecnológica de Pernambuco SICTEC-95, Anais de Resumos, Recife, Brasil, September 1995.*
- [79] Aguiar Neto, B. G., Pinheiro, W.G.
“Plano Curricular para um Curso de Engenharia Elétrica”. *Revista de Ensino de Engenharia da ABENGE*, v.12, n.11, p-25-29, July 1994
- [80] França, R. M. V., Aguiar Neto, B. G.
“A Modified Kohonens Algorithm for Voice Waveform Vector Quntization” *In: XI Simpósio Brasileiro de Inteligência Artificial (SBIA-94)*, v.1, p.351-365, Fortaleza, Brasil, October 1994.
- [81] Costa, S. L. C., Aguiar Neto, B. G.
“A Multichanel System for Speech Enhancement using an Microphon Array” *In: International Telecommunication Symposium SBT/IEEE (ITS-94)*, v.1, p.152-155, Rio de Janeiro, Brasil, 1994.
- [82] Costa, S. L. C., Aguiar Neto, B. G.
“An Adaptive Multichanel System for Noise Reduction of Speech Degraded Signals” *In: International Congress on Information And Engeniering ICIE-94*, Buenos Aires, Argentina 1994.
- [83] França, R. M. V., Aguiar Neto, B. G.
“An Self-Organizing Algorithm for Waveform Vector Quantization *In: International Telecommunications Symposium (ITS-96- SBrT/IEEE)*, v.1 p. 136-140, Rio de Janeiro, Brasil August 1994.
- [84] Costa, W. C. A., Aguiar Neto, B. G.
“Automatic Speech Recognition using Gaussian Mixture and Hidden Markovs Models” *In: International Congress on Information and Engenieering ICIE-94*, Buenos Aires, Argentina 1994
- [85] Fechine, J. M., Aguiar Neto, B. G.
“Modeling of Speech Signals for Automatic Speaker Verification Using a Hidden Markov” *In: International Congress on Information and Engenieering ICIE-94*, Buenos Aires, Argentina 1994.
- [86] Fechine, J. M., Aguiar Neto, B. G.
“Princípios e Aplicações da Comunicação Vocal Homem-Máquina” *In: IV Congresso Brasileiro de Informática em Saúde (CBIS-94)*, Porto Alegre, Brasil 1994.
- [87] Fechine, J. M., Aguiar Neto, B. G.
“Reconhecimento de Identidade Vocal Usando Modelos de Markov Escondidos

- (Hidden Markov Models-HMMs)” *In: 11. Simpósio Brasileiro de Automática e Congresso Latino Americano de Controle Automático, (SBA-94), v.1, p. 992-997, Rio de Janeiro 1994.*
- [88] Fechine, J. M., Aguiar Neto, B. G.
“Reconhecimento de Pessoas a Partir de Identidade Vocal” *In: II Congresso Petrobras de Informática e Telecomunicações (INFITEL-94)”, Anais do INFITEL-94.vol.1, p.439-444, Salvador, Brasil 1994.*
- [89] Fechine, J. M., Aguiar Neto, B. G.
“Uso de Modelos de Markov Escondidos para Reconhecimento Automático de Pessoas pela Fala”. *In: XVII Congresso Nacional de Matemática Aplicada e Computacional (CNMAC-94), Vitória, Brasil 1994.*
- [90] Fechine, J. M., Aguiar Neto, B. G.
“Uso de Modelos de Markov Escondidos para Reconhecimento de Padrões da Fala” *In: 11. Simpósio Nacional de Probabilidade e Estatística (SINAPE-94), Anais do SINAPE-94., Belo Horizonte-MG 1994.*
- [91] França, R. M. V., Aguiar Neto, B. G.
“Voice Waveform Vector Quantization Using a Competitive Algorithm” *In: (IEEE GLOBECOM-94), v.2, p. 872-875, San Francisco, USA, November 1994.*
- [92] Lima, L. B., Aguiar Neto, B. G.
“Tecnologias de Fabricação de Circuitos Integrados” *In: II Encontro de Iniciação Científica da UFPB, Anais de Resumos p.301, João Pessoa, Brasil, October 1994.*
- [93] Aguiar Neto, B. G., Pimenta, N. L.
“Levantamento de Estatístico de Conversações Telefônicas Simuladas *In: 11. Simpósio Brasileiro de Telecomunicações (SBT 93), v.1, p.682-685, Natal, Brasil, September 1993.*
- [94] Costa, S. L. C., Aguiar Neto, B. G.
“Estimação da Densidade Espectral de Potência para uso em Filtro Wiener-Kolmogoroff” *In: XVI Congresso Brasileiro de Matemática Aplicada e Computacional CNMAC-93, Uberlândia, Brasil 1993.*
- [95] Fechine, J. M., Aguiar Neto, B. G.
“Modelamento de Identidade Vocal Utilizando Modelos de Markov Escondidos (HMM’s)” *In: XVI Congresso Nacional de Matemática Aplicada e Computacional (CNMAC-93), Uberlândia, Brasil, August 1993.*
- [96] Fechine, J. M., Aguiar Neto, B. G.

- “Uso do Algoritmo do Algoritmo de Viterbi no Reconhecimento de Fala Utilizando HMM”. In: *XVI Congresso Nacional de Matemática Aplicada e Computacional (CNMAC-93)*, Uberlândia, Brasil, August 1993,
- [97] Aguiar Neto, B. G., Silva, A. J.
“Análise da Quantização Vetorial em Vocoder LPC” In: *X Simpósio Brasileiro de Telecomunicações e Simpósio Brasileiro de Microondas (TELEMO-92)*, p. 145-149, Brasília, Brasil, September 1992.
- [98] Aguiar Neto, B. G., Luciano, B. A., Farias, J. E. P.
“Uma Avaliação do Estágio Curricular no Curso de Engenharia Elétrica no CCT da UFPB” In: *XX Congresso Brasileiro de Ensino de Engenharia (COBENGE-92)*, v.1, p.183-189, Rio de Janeiro, Brasil, September 1992.
- [99] Aguiar Neto, B. G.
Detecção e Correção de Erros em Transmissão Digital de Voz sem Codificação de Canal In: *IX Simpósio Brasileiro De Telecomunicações Da (SBT 91)*, p.4.2.1-4.2.6, São Paulo, Brasil, September 1991,
- [100] Alencar, M. S., Aguiar Neto, B. G.
“Estimação da Função Densidade de Probabilidade Através da Análise Espectral”. In: *IX Simpósio Brasileiro de Telecomunicações (SBT-91)*, p.10.3.1-10.3.5, São Paulo, Brasil, September 1991.
- [101] Aguiar Neto, B. G., Alencar, M. S.
“Estimation of the Probability Density Function by Spectral Analysis: A Comparative Study”. In: *Thirteen GRETSI Symposium*, p.377-380, Juan-Les-Pins, France, September 1991.
- [102] Aguiar Neto, B. G., Alencar, M. S.
“Estimation of the Probability Density through Spectral Analysis” In: *International Conference on Computer, Electronics, Communication and Control (CECC/91)*. Proceedings of the IASTED, p. 271-273, Calgary, Canada, April 1991.
- [103] Aguiar Neto, B. G., Pinheiro, W. G.
“Plano Curricular de um Curso de Engenharia Elétrica” In: Congresso Brasileiro de Engenharia (COBENGE-91), v.2, p.737-751, João Pessoa, Brasil, September 1991.
- [104] Aguiar Neto, B. G.
“Reconhecimento de Palavras Isoladas Independentes de Locutor para a Língua Portuguesa do Brasil” In: *IX Simpósio Brasileiro de Telecomunicações (SBT 91)*, São Paulo, Brasil September 1991.
- [105] Aguiar Neto, B. G.

- “Melhoramento de Voz Degradada por Método Baseado em Subtração Espectral Adaptativa” *In: VII Simpósio Brasileiro de Telecomunicações (SBT 89)*, p.54-59, Florianópolis, Brasil, Setembro 1989.
- [106] Aguiar Neto, B. G.
“Signalaufbereitung in Digitalen Sprachübertragungssystemen”. *NTZARCHIV-Wissenschaftliche Zeitschrift für Informationstechnik*, v.10, n.11, p.317-318, 1988.
- [107] Aguiar Neto, B. G.
“Melhoramento de Sinais de Voz através de Método de Supressão de Ruídos por Balanceamento Espectral Adaptativo” *In: VI Simpósio Brasileiro de Telecomunicações (SBT 88)*, p. 239-244, Campina Grande, Brasil, September 1988.