Service

Contents

1 Overview

As mentioned in my statement of philosophy, I see service as an essential component of being a professional. I see it as a catalyst of integration of teaching and research, as well as a way of implementing my philosophy. I therefore dedicate to it a significant portion of my time. As I try to integrate my activities of research, teaching, and service, I find for instance that service offers other ways to bring together research and teaching. However, my service is not limited to ways that allow me the integration of my activities: I also seek to implement the access and excellence mission of UTEP through a range of activities as detailed below.

Over the course of my probation period, I have had the opportunity of being involved in a number of service activities. I have been active at UTEP through committees at all levels (department, college, university), in my research community (e.g., journal reviewer, panel member, conference chair), as well as in the local community (e.g., outreach). As much as I like variety, I have nevertheless tried to find service activities aligned with my philosophy: e.g., enhancing the participation of women, contributing to enhancing the visibility of computer science while improving its image, seeking excellence through active participation in my research community, and community building. I have also sought leadership positions or generated leadership opportunities that would allow me to have more impact and better chance to achieve my goals.

In what follows, I start by highlighting some of my activities that illustrate how I have worked towards achieving my goals: my efforts on women issues (towards a 21st-century-demographics-ready campus, and to increase the participation of women in computing), my efforts to be an active participant of my research community while increasing the visibility of UTEP, and my outreach efforts. I then report in a more exhaustive manner my activities of service for the University, my research community, as well as the local community.

2 Highlights of Service Leadership and Impact

What follow are illustrations of service activities I have conducted and that are aligned with my goal of access and excellence. I have worked on women-related issues: how to better take into account women in the academe but also how to open the door to more incoming female students. I have strived to increase the visibility of UTEP by organizing conferences but also taking the lead in building a research community. Finally, I have always been interested and participated in outreach activities: I have over the years tried to establish an efficient model of outreach that aims at increasing access to more students.

2.1 Women Related Activities

As mentioned earlier, I have considered two angles on women issues: assessing and possibly improving the condition of female faculty on campus as well as increasing the participation of female

students in computing.

2.1.1 Women on Campus: Towards a 21st-Century-Demographics-Ready Campus

In summer 2006, I was lucky to be invited to be a member of the Women's Advisory Council to the President (WAC). Being part of this council helped me clarify my focus on women issues on campus. After working on several topics over my service in this council (including a recommendation for a staff mentoring program), as a chair of this council since September 2010, I have oriented the efforts of the council to assessing and possibly making recommendations for improving the condition of female faculty on campus.

The council spent the past academic year exploring the possible areas of improvement at UTEP to make our campus family friendly. Part of the room for improvement concerned the implementation of the FMLA: there seemed to be a wide range of possible implementations of it. Our work resulted so far in the recommendation of the design of a compliance training module on this topic, with the emphasis on the family component of it (it does not only apply to pregnant women but more generally to anyone who need to take time off to care for a family member). We also have been in touch with Dr Howard Daudistel at UTEP and with UTEP's Human Resources leadership team to brainstorm about ways to improve faculty and staff's experience of FMLA, as well as to try to establish a clear definition of what a faculty schedule and work load is. Our discussions resulted in our recommending that training be provided to chairs and deans. Within the council, we are currently working on putting together a chair-and-dean toolkit inspired by that used by UC Berkeley as the result of the family initiative of Berkeley Dean Mary Ann Mason.

I have also dedicated a lot of time coordinating the efforts of WAC with those of the Mama PhD group, with the help of Lee Ann Westman and Irasema Coronado. This way, we were able to present an integrated and concerted agenda to President Natalicio at the occasion of meetings with her in spring 2011 to report our activities. I have also started more recently to coordinate WAC's efforts with those of the Women Resource Center at UTEP, with the help of Shannon Osborne.

Besides, in a constant aim to increase women's access to resources on campus, I have designed and created a website for the council: this website is almost ready for release and is available at http://admin.utep.edu/wac.

The current goal of the council is to make recommendations that are relevant to making our campus family friendly as we believe that this is not only necessary for our campus to be ready to the 21st century demographics, but also as it would clearly be an asset to put forth when hiring.

2.1.2 Enhancing Women's Participation in Computing

Although my involvement in the activities described in Subsection 2.1.1 are across disciplines, another women-related issue that I am passionate about is the participation of women in computing.

I believe in diversity as it drives innovation and I am therefore concerned about the lack of diversity: women are hardly represented in computer science.

For instance, decision makers and engineers lead the way and decide what is to be solved and how to solve it, what is to be built and how to built it. Lacking in women's angle means that women's needs are not necessarily addressed and women's creativity is not factored in solving techniques and in innovations.

Because of my strong feeling about women's participation, I have actively taken part for instance in giving talks to groups of women students (high-school and university), in participating in career fairs (for instance at all-girl schools), and in involving high-school girls in summer projects with my research group, CR2G. Most importantly, I have been involved in the following two activities / projects:

1. National Center for Women & Information Technology (NCWIT)'s awards in aspirations in computing: Each year, NCWIT invites high-school girls to participate in a competition that recognizes students showing high motivation / high achievement in computing. The local effort (El Paso - Las Cruces, NM) is led by Steve Roach, CS professor at UTEP. Activities related to this annual event include: recruiting high-school students by giving presentations in their schools about the competition, helping the students prepare their application, judging / reviewing the applications (usually not the local ones), and organizing the local awards ceremony. The ACM local student chapter that I advise takes an active part in these activities as well.
   As a result of these efforts, for instance, last year's competition awarded two national winners from the El Paso - Las Cruces region, as well as two national runner-ups.

2. Creating a "Real Project for Real Client" Course in high-schools (project with David Klappholz from Stevens Institute of Technology): the idea from which this project originated is that computer science is often perceived as an inorganic discipline, i.e., involving very little inter-personal skills or communication, and with little or no impact of our society. Our goal, with this project, is to create a new course in high schools that would teach students the organic part of computer science: communication as a mean to elicit specification of a computer-science-related project from a non-for-profit client, hence demonstrating at the same time the use of computer science for and its impact on society.
   Klappholz and I have submitted this project three times to NSF (twice to its Broadening Participation in Computing program in 2009 and 2010 – and received very good reviews –, and once to Computing Eduation for the 21st century program in spring 2011) and we are still hoping to get it fully started. Thanks to Google fund that we received in summer 2010, we were able to organize a teachers' workshop in summer 2010 in New Jersey, to train teachers to teach this new course.

2.2   Enhancing UTEP's Visibility

I try to catch every opportunity to enhance UTEP's visibility. To this end, I aim at excellence as it brings visibility: excellence in my research and service to my community. I also sought other ways

to achieve this:

For instance, I recently became a member of the board of directors of the North American Fuzzy Information Processing Society. This, I believe, creates presence in the research community and enhances UTEP's influence. However, this is an anecdotal event. More systematically, I have sought activities that bring a large audience to look at UTEP, to even come to UTEP. As detailed below, I have taken part in conference organization and chairing, as well as an active lead in community building.

2.2.1 Conferences organization and chairing

Although I have been involved in several workshops and conferences organization and chairing, the most notable ones are:

- the 30th North American Fuzzy Information Processing Society Annual Conference, NAFIPS 2011, held at UTEP on March 18-20, 2011 (co-general chair, co-program chair, co-organizer with Vladik Kreinovich);

- the 13th GAMM - IMACS International Symposium on Scientific Computing, Computer Arithmetic and Verified Numerical Computations, held at UTEP on September 29 - October 3, 2008 (co-chair and co-organizer, with Vladik Kreinovich).

Both conferences drew a lot of international attention. In particular, NAFIPS'2011 drew the attendance of about 90 people from over 42 institutions around the world.

2.2.2 Community Building

Since fall 2008, I have taken the lead in building a community of researchers interested in decision making and in applications of these. The community annually gathers at the workshop on Constraint Programming and Decision Making (CoProD) that I organize decision-making researchers with domain scientists with decision-making needs.

To make these events happen, I sought and received NSF funding that helped me have a balance of invited speakers and contributed talks. I am now about to edit a special issue of the Springer book series on Advances in Intelligent and Soft Computing that gathers articles from CoProD 2009 to 2011. Submissions have been received and will be treated for potential inclusion in the special issue.

2.3 Outreach

Finally, consistent with my goal of access, and more broadly than a single focus on female students, I have put efforts in outreach and invitation of high-school students to my lab.

Over the years, I have developed a network of contacts and collaborations with high-schools of El Paso. Through discussions within actors of this network, it has appeared that offering internships to high-school students was a possibility and that there was demand from the students. I therefore started to invite students to join my lab for summer and encouraged schools to take part in the NEXUS program at UTEP (see http://engineering.utep.edu/plaza/Nexus/index.html for more details). Concurrently, I started collaborating with Maria Alvarez at the El Paso Community College (EPCC) on summer research projects for early-college high-school students. Both experiences started in summer 2010, with 2 students through NEXUS (female students) and 3 through EPCC (2 male / 1 female); and is continuing in summer 2011 with 5 students through NEXUS (4 female / 1 male) and 7 at EPCC (1 female / 6 male).

The projects proposed to the EPCC students are mostly of development nature but we also train them to the research methodology by asking specific deeper questions; for instance, one of the projects this summer is to develop an android app for genetic sequence algorithms. The NEXUS students, on the other hand, get more first-hand exposure to research, both due to their hosting in my lab and to the involvement in my research projects (as helpers for my students: for instance, tester) and in all of our research meetings. However, I am trying to have the EPCC and NEXUS students work together at least part of the week in my lab (and not only at EPCC as the EPCC students do now), to increase the exposure to research and enhance the team-working skill development.

Besides these summer efforts, I also conduct outreach activities throughout the year, in close collaboration with Ms Fernandez, math and AP CS teacher at Loretto Academy of El Paso (an all-girl high-school). The idea is to show the connection of the math content to computing and at the same time, through examples and more general presentations, to change the image of computing.

My goal is then to analyse the impact of these experience and if successful, to propose these integrated activities as a model for outreach.

3 Evidence of Service to the University

3.1 Departmental Service

1. **Chair of the CS Colloquium committee** – since Sept. 2010
   The CS colloquium committee is in charge of organizing the schedule of talks in the CS department. This also includes inviting and hosting speakers (managing their schedule of meetings during their stay at UTEP when they come from out of town). Since I have been

part of this committee, and chaired it, 15 talks have been held, 9 of which have been from out-of-town speakers. See http://www.cs.utep.edu/DeptCS/seminars/ for more details on the talks of this past year.

2. **Advisor of the ACM chapter at UTEP** – since Sept. 2005
As an advisor of the ACM chapter at UTEP, I have sought to guide the activities through close interaction with the chapter's officers. The chapter's activities over the years have varied from offering tutorials to high-schools of El Paso on programming (high-schools were usually picked depending on the officer's network), participating in charity events (such as Dia de los Ninos), to actively participating in the NCWIT awards in aspirations in computing (helping "recruit" the students, helping them in their applications, helping organize the awards ceremony).

3. Member of the **CS Faculty search committee** – Sept. 2010 – February 2011

4. Member of the **CS Chair search committee** – Sept. 2008 - May 2009

5. Member of the **CS Graduate committee** – since Sept. 2004
This committee discusses the applications/admissions of new graduate students, the qualifying exams, the rules and content of the graduate and PhD programs. Over the years, I was involved several times in the writing and in grading the PhD qualifying exam for Data Structures and Algorithms.

6. Member of the **CS Facilities committee** – since Sept. 2005
This committee meets on a need basis and/or discusses issues via email when appropriate. Discussed issues are usually related to current building needs and material replacement.

7. Member of the **CS Information Assurance committee** – Sept. 2007 – 2010
Luc Longpre (chair of the committee and lead of the effort), Vladik Kreinovich, and I worked on the mapping of our courses to the outcomes expected to obtain an Information Assurance Certificate. We later worked on the creation of a Center for Information Assurance (CFIA) whose director is Luc Longpre: the center was officially formed in January 2009. See http://www.cs.utep.edu/cfia/ for more detail.

8. In charge of the **department's course schedule**, under the lead of Ann Gates and later on Steve Roach, until spring 2010.

3.2 College Service

1. Member of the **Civil Engineering Faculty search committee** – Sept. 2008 - May 2009

2. Member of the working group on UTEP's **Key Strategic Direction** about enhancing students' success – Dec. 2005 - April 2006.
During this period of time, we met every week to brainstorm about how to recruit, retain students, decrease the time to graduation, and improve the preparation of students, and submitted a proposal about how to enhance research at UTEP.

3. Member of the working group on UTEP's **Key Strategic Direction** about research – Jan. 2005 - April 2005.
During this period of time, we met every week, and our work resulted in the submission of a proposal about ways to enhance research at UTEP.

4. Member of **UTEP's Integrated Curriculum group** – 2004.

3.3   University Service

1. **Chair of the Women's Advisory Council to the President** – since Sept. 2010
   The purpose of the Women's Advisory Council to the President is to serves as a direct communication channel between women faculty, staff, students and the President. The Council fosters wide-ranging dialogue about issue and interest affecting women on campus and meets as needed. Yearly nominations for appointments to the Council are made by current members each summer. If appointed to serve on the Council, each member serves for a two year term. Representation on the Council consists of faculty, staff and students appointed by the President.
   While chairing this council, I have led its efforts to family-friendly campus issues, focusing on 21st-century-demographics needs. I also developed a website (almost ready for release) to increase the access of people on campus to information and resources; see http://admin.utep.edu/wac for more details.

2. Member of **UTEP's Senate** for the CS department – since Sept. 2010
   UTEP's faculty senate meets monthly to discuss university-wide issues and new policies. My role as a faculty senator is to attend these meetings, participate in the discussion if relevant, and report to the department the important news.

3. Member of the **Executive Committee** of the **Computational Sciences Program** at UTEP – since Sept. 2008
   This committee meets on a need basis. The topics discussed within this committee include curriculum, graduation requirements, qualifying exams, students' applications, and other day-to-day issues.

4. Member of the **MamaPhD group** at UTEP – since Sept. 2010
   The Mama PhD group was created in 2009. It supports UTEP faculty who are mothers. Its creation was originally inspired by the book "Mama PhD" as well as the corresponding blog. The Mama PhD group gathers faculty from a wide variety of disciplines. The groups meets monthly. In 2010-2011, as a member of both WAS and Mama PhD, I have been very active in coordinating the efforts of the two groups as there is a significant overlap between their respective goals.

5. Member of the **Women's Advisory Council to the President** – since Sept. 2006
   See above for more details.

6. Member of the **UTEP Catalog and Calendar Committee for the Senate** – Sept. 2006 - Sept. 2008
   Our task encompassed both the catalog and the calendar, but our hard work focused on the catalog, that we worked at reformatting, both the online and paper catalog.

3.4 Student Advising

3.4.1 Undergraduate advising

Since 2005, I have been assigned a group of about 30 undergraduate students that I meet once a semester for Summer/Fall advising during spring and summer semesters and for Spring advising during fall semester. Each advising session last about 15 minutes (sometimes more as needed) and is dedicated to discussing the set of courses the student should be taking the following semester(s) to ensure a timely graduation while not jeopardizing their GPA, providing career advice as well as advice to maximize their experience as a student in our department (such as doing research, taking part in the ACM chapter, applying for internships). I find such sessions essential as another way to reach out to our own students, some of them not always coming to ask for help or advice otherwise.

3.4.2 Research advising

I dedicate a large part of my efforts advising students conducting research under my supervision. As mentioned in Part II, I supervise research of students in my research group CR2G. To date, I have supervised about 20 undergraduate students. Five Master's students supervised by me have graduated: Richard Coy (Dec. 2005), Geetanjali Mesineni (July 2007), Carlos Acosta, Naga Suman Kanagala (Dec. 2008), Christian Servin (May 2009). Paden Portillo and Mario Bencomo were also Master's students doing research in CR2G but left one for personal reasons, the other to join Rice University's PhD program in Computational Sciences and Applied Maths. I have supervised four PhD students: three of them (Luis David Lopez, Mai Ahn Nguyen, Aziza Aouhassi) left UTEP, respectively in 2007, 2009, and 2011, due to family reasons while under my supervision; the last one (Xiaojing Wang) is expected to graduate in summer 2012.

Currently, I supervise one PhD student as mentioned above, two Master's students: Shubhra Datta (expected to graduate in early Fall 2011) and Christian Del Hoyo (expected to graduate in summer 2012), and one undergraduate student. A new member, Angel Garcia, Master's student, should join shortly and I am conducting efforts to recruit a new PhD student as well.

Besides, I am supervising during summer 2011 a total of 10 high-school students, split between three of them within the NEXUS program at UTEP (two from Da Vinci school of El Paso, one from Loretto Academy of El Paso), and seven within the MSEIP program for early-college high-school students at the El Paso Community College. That brings the total of high-school students I have supervised so far up to 15.

Finally, I have also advised an undergraduate student from France for a one-year-long project at UTEP, and I was in 2009 an external reviewer for the dissertation of a PhD candidate from the Indian Institute of Technology of Bombai, India (2009).

4 Evidence of Service to Research Community

4.1 Editorship

- **Journals' Special Issues**

  - Co-editor: special issue of Reliable Computing with selected papers from SCAN'2008, 2011, Vol. 15; with Vladik Kreinovich
  - Co-editor: special issue of Journal of Uncertain Systems on Uncertainty, 2011, Vol. 5, No. 2; with Vladik Kreinovich
  - Co-editor: special issue of Journal of Uncertain Systems on Uncertainty, 2010, Vol. 4, No. 4; with Vladik Kreinovich

- **Workshop proceedings**

  - Editor: book of abstracts of CoProD'08, '10, '11

- **Tracks editorials**

  - Martine Ceberio, Vladik Kreinovich, Michel Rueher: *Editorial: track reliable computations and their applications.* SAC 2006: pp. 1633 – 1634.
  - Martine Ceberio, Vladik Kreinovich, Michel Rueher: *Editorial: track reliable computations and their applications.* SAC 2005: pp. 1429 – 1430.
  - Martine Ceberio, Vladik Kreinovich, Michel Rueher: *Reliable Computations and Their Applications (RCA) Track.* In Reliable Computing 11(6): pp. 499 – 503. 2005.

4.2 Program Committee

- **Program chair**

  - Co-program chair for NAFIPS'11
  - Program chair for all CoProD workshops
  - Co-program chair for RCA tracks at ACM SAC'05 and '06.

- **Member of program committee**

  - Member of the scientific committee of the IntCP, CPSec, Verif/Valik workshops at International Conference on the Principles and Practice of Constraint Programming (CP), 2006
  - Member of the scientific committee of the track CSP (Constraint Solving Problems) at SAC since 2006.
  - Member of the scientific committee of Virtual Concept 2005, international conference.
  - Member of the scientific committee of the international conference AMCS'05 (Algorithmic Math- ematics and Computer Science).
  - Member of the program committee of the CPAIOR'09 workshop on Bound Reduction Techniques for Constraint Programming and Mixed-Integer Nonlin- ear Programming
  - Distributed and Speculative Constraint Programming workshop, DSCP'05, at CP'05

4.3 Paper and Book Review

I reviewed articles for the following **conferences and workshops**:

- The International Conference on the Principles and Practice of Constraint Programming (CP), since 2004

- ACM Symposium of Applied Computing (SAC) (for the Constraint track), since 2004

- North American Fuzzy Information Processing Society (NAFIPS), 2010, 2011

- The International Conference On Rehabilitation Robotics (ICORR), 2007

- The European Conference on Artificial Intelligence (ECAI), 2008, 2010

- The Frontiers In Education Conference (FIE), 2005, 2006, 2008

- The International Joint Conference in Artificial Intelligence (IJCAI), 2005, 2007, 2009

- Annual Conference of the Association for the Advancement of Artificial Intelligence (AAAI), 2010, 2011

- The Ershov Memorial Conference (PSI), 2011

- The Conference on the State of the Art in Scientific and Parallel Computing (PARA), 2010

- The 24th International Conference on Logic Programming (ICLP), 2008.

- Workshops at The International Conference on the Principles and Practice of Constraint Programming (CP) – e.g., Soft constraints, 2005, 2006, 2007.

I also reviewed articles for the following **journals and books**:

- Journals:

    - Computing, 2009, 2011
    - ANOR, 2004
    - Reliable Computing, since 2005
    - IJAR (International Journal of Approximate Reasoning),
    - INFORMS Jounal on Computing, 2009, 2010
    - Informations Sciences, 2009, 2010, 2011

- Books:

    - Applied Interval Analysis, by Luc Jaulin, 2001;
    - Java for Everyone (class test) by Horstmann at Wiley, 2009;
    - Data Structures: Abstraction and Design Using Java, by Koffman and Wolfgang at Wiley, 2009.

4.4 Conference / tracks / workshop chairing and organization

- **International conferences**

  - Co-general chair and co-program chair of the Annual Conference of the North American Fuzzy Information Processing Society, NAFIPS'2011 (nafips.cs.utep.edu), held at UTEP

  - Co-general chair of the 13th GAMM - IMACS International Symposion on Scientific Computing, Computer Arithmetic and Validated Numerics, SCAN'08 (scan2008.com), held at UTEP

- **International workshops**

  - Program and general chair of the workshop series CoProD (CoProD'08,'09,'10,'11): Constraint Programming and Decision Making workshops (coprod.constraintsolving.com), held at UTEP

  - Co-organizer and member of the program committee of the CPAIOR'09 workshop on Bound Reduction Techniques for Constraint Programming and Mixed-Integer Nonlinear Programming (www.cs.utep.edu/mceberio/Research/br-cpaior09/), held at Carnegie Mellon University, Pittsburgh

  - Program chair and organizer of the Distributed and Speculative Constraint Programming workshop, DSCP'05, at CP'05, held in Barcelona, Spain

- **Tracks at international conferences**

  - Co-program chair and co-organizer of the RCA (Reliable Computing and their Applications) track at ACM Symposium on Applied Computing, SAC'05,'06, held respectively in Santa Fe, New Mexico, and in Dijon, France

Note: All of these conferences and workshops' website have been designed and maintained by myself in a constant effort in catch every opportunity to increase UTEP's visibility.

4.5 Grant Proposal Review

I participated in five several NSF panels since 2008:

- Maths/Physics (March 2008);

- CISE (March 2008, March 2011);

- DUE (July 2010, July 2011).

4.6   Professional memberships

- Member of the **board of directors** of the North American Fuzzy Information Processing Society (NAFIPS) since March 2011

- Member of the Constraint Programming Society in North America (CPNA)

- Member of the Association for Constraint Programming (ACP)

- Member of the Association for Computing Machinery (ACM)

- Member of ProfessHers

- Member of Empowering Leadership

4.7   Open Source Software and Other Web Resources

- Designer and webmaster of the **community website http://www.constraintsolving.com** that provides for instance:

  - General information about constraints
  - Tutorials
  - Information about constraint solvers

5   Evidence of Service to Community

5.1   Service to the Local Community

- Collaboration with high-schools of El Paso:

  - Loretto Academy, an all-girl high school: collaboration with their math and AP CS teacher, Ms Fernandez, to enhance her teaching with activities meant to stimulate problem-solving skills and enhance the image of computer science
  - Harmony Science Academy: e.g., through helping mentor their robotics team, helping find judges for their fairs

- Faculty advisor for high-school students:

  - Summer 2011: **Faculty advisor** for two summer research projects for Early College High-School students at El Paso Community College (7 students).
  - Summer 2011: **Faculty advisor** for four high-school students (3 from Da Vinci high school / 1 from Loretto Academy in El Paso) within the Nexus program at UTEP.
  - Summer 2010: **Faculty advisor** for a summer research project for Early College High-School students at El Paso Community College.

- Summer 2010: **Faculty advisor** for two high-school girls of Harmony Science Academy of El Paso, within the Nexus program at UTEP.

- Career fair and open house participation:

  - April 2010: College of Engineering **open house**
  - April 2011: **Career Fair** at Loretto Academy of El Paso (all-girls middle and high school).
  - March 2007, 2008, 2010, 2011: **Career Expo** at Mitzi Bond Elementary School, El Paso.

- Invited presentations about computer science and careers:

  - April 2011: Presentation about career choices and computer science at the Young Women in Computing at New Mexico State University, Las Cruces.
  - April 2010: Presentation about career choices to **Early College High School Students** at El Paso Community College.
  - May 2008: Presentation at the **Extend Your Horizons** conference at UTEP.
  - May 2007: Presentation about Artificial Intelligence and Games at **Wiggs Middle School**, El Paso.
  - I was invited in **May 2006**, by the association Proyecto Abel in **Ciudad Juarez, Mexico**, to give an invited talk to about twenty high-school students. I gave a 2-hour presentation in Spanish on the following topic: from Artificial Intelligence to Constraint Programming.

- Judge at science fairs and senior symposia:

  - April 2011: judge at the Chapin High-School **Senior Project Symposium**.
  - Fall 2009, 2010: part of the **NCWIT local effort** (led by Dr. Steve Roach, UTEP) to engage high-school girls of El Paso to participate in the NCWIT Awards for Aspirations in Computing. NCWIT Reviewer/judge of high-school girls' applications. Keynote speaker at the awards ceremony in Spring 2011 at UTEP.
  - Fall 2009: Judge at the **Science Fair** of Harmony Science Academy (for elementary and middle schools), El Paso

- Other:

  - April 2008: **"Dia de los Niños"**. I helped the ACM chapter at UTEP to organize this event.

6 Appendix: List of Supporting Documents

6.1 Service to UTEP

- **Letters** from:

  1. Letty Paez, former chair of WAC, and Assistant Dean, College of Health Sciences
  2. the Women's Advisory Council to the President
  3. LeeAnn Westman, founding member of the Mama PhD group at UTEP
  4. Gabby Gandara, director of the Plaza at UTEP

- **Website:**

  1. Website of the Women's Advisory Council to the President (WAC)

6.2 Service to research community

- **Websites:**

  1. Website of the workshop on Distributed and Speculative Constraint Programming (DSCP'2006)
  2. Website of the track on Reliable Computations and their Applications (RCA'2006) at ACM SAC
  3. Website of the Annual Conference of the North American Fuzzy Information Processing Society (NAFIPS'11)

- **Emails** related to:

  1. Invitation to be a reviewer for Informations Sciences
  2. Invitation to be a panel member at NSF

- **Professional distinction:**

  1. List of NAFIPS' board members

6.3 Service to local community

- **Letters** from:

  1. Enrique Trevino, visiting professor at Strathmore College, co-organizer of the Proyecto Abel in 2006 in Ciudad Juarez
  2. Mary Beth Farkas, Counselor at Mitzi Bond Elementary School of El Paso
  3. Maria Alvarez, Professor of Biology at El Paso Community College
  4. Guvanch Atamyradov, Principal of Harmony Science Academy of El Paso, North East campus

- **Website:**

    1. Website with the pictures from the College of Engineering open house in 2010