

1. Name, current academic rank, and tenure status

Dr. Craig A. Rich Professor and Chair Tenured

2. Date of original appointment to this faculty, followed by dates and ranks of advancement

Assistant Professor, Computer Science Department, 1988 Associate Professor, Computer Science Department, 1991 Professor, Computer Science Department, 1994
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3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Ph.D.	Computer Science	Iowa State University	1988
M.S.	Computer Science	Iowa State University	1984
B.S.	Computer Science	Iowa State University	1979

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

N/A

5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improve teaching and professional competence in computer science.

April 2008 Wireless Telecommunications Symposium (WTS) 2008, Cal Poly Pomona. October 2007 Cyber Security Fair, Cal Poly Pomona. October 2005 Cyber Security Fair, Cal Poly Pomona.

6. Other related computing experience including teaching, industrial, governmental, etc. (Where, when, description and scope of duties)

2008–present	Chair, Computer Science Department, California State Polytechnic University, Pomona.
1994–present	Professor, Computer Science Department, California State Polytechnic University, Pomona.
2006–07	Technology Consultant, Instructional and Information Technology, California State Polytechnic University, Pomona.
2001–02	Strategic Architect, Instructional and Information Technology, California State Polytechnic University, Pomona.
1996–98	Director, Cal Poly Pomona Intranet Project, California State Polytechnic University, Pomona.
1995–98	Webmaster, California State Polytechnic University, Pomona.
1991–94	Associate Professor, Computer Science Department, California State Polytechnic University, Pomona.
1988–91	Assistant Professor, Computer Science Department, California State Polytechnic University, Pomona.
1982–88	Teaching Assistant, Computer Science Department, Iowa State University.
1984–86	IBM Graduate Fellow, Computer Science Department, Iowa State University.
1979–82	Scientific Programmer, McDonnell-Douglas Automation Company, St. Louis, MO.

7. Consulting—list agencies and dates, and briefly describe each project.

October 2003	Expert Witness, Morgan, Lewis & Brockius LLP
	Evaluated whether and to what extent similarities existed between software programs.

8. Department, college and/or university committees of which you are a member.

Chair, Computer Science Department
Chair, Computer Science Department Laboratory Committee
Member, Computer Science Department RTP Committee

9. Principal publications during the last five years. Give in standard bibliographic format.

Invited Presentations and Papers

- “Elliptic Curve Cryptography,” *Computer Science Society Lecture*, Cal Poly Pomona, May 2008.
- “Cryptographic Primitives for Secure Communication,” *Computer Science Society Lecture*, Cal Poly Pomona, April 2008.
- “Cryptographic Primitives for Secure Communication,” *Wireless Telecommunications Symposium (WTS) 2008*, Cal Poly Pomona, April 2008.
- “The Cal Poly Pomona Intranet, Part Deux: The New Linux-Based Intranet,” *Computer Science Society Lecture*, Cal Poly Pomona, January 2008.
- “Do You Accept This Certificate?” *Cyber Security Fair 2007*, Cal Poly Pomona, October 2007.
- “SOAP v. REST—The Battle for Web Services Supremacy,” *Computer Science Society Lecture*, Cal Poly Pomona, February 2007.
- “What’s Up With AJAX,” *Computer Science Society Lecture*, Cal Poly Pomona, April 2006.
- “On Used Car and Software Sales,” *2005 College of Science Distinguished Teaching Award Presentation*, Cal Poly Pomona, November 2005.
- “Dissecting Pretty Good Privacy (PGP),” *Cyber Security Fair 2005*, Cal Poly Pomona, October 2005.

10. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

Author, “Identity::,” integrated Perl module for synchronizing user and group identity information across disparate computing environments, 2007. Provides single sign-on and identity management services for a community of 85,000 users and 15,000 groups at Cal Poly Pomona.

Author, “Generic Interpreter (gi),” open-source Java-based software for building compilers and interpreters, <http://www.csupomona.edu/~carich/gi/>, © 1999–2008.

Author, “Interpreter Theory and Implementation,” textbook presenting regular language theory, context-free language theory, denotational semantic theory and their applications, in preparation, © 2008.

Master’s Students Supervised

Ngo, Bao. “Implementation of an Identity-Based Cryptosystem,” Summer 2008

Yousef, Rania. “Implementing a Denial-of-Service Monitoring Tool,” Fall 2006

Cheng, Robert. “Masquerade Detection using Sequence Alignment,” Summer 2005

Liu, Yang. “Cryptographic Database Security with Practical Key Management,” Summer 2005

Hartono, Johan. “Mobile Agent Security using Public Key Cryptography,” Fall 2004

11. Scientific, professional and honor societies of which you are a member.

Member, Association for Computing Machinery (ACM), 1981–present

12. Honors and awards.

Recipient, 2005 College of Science Distinguished Teaching Award, Cal Poly Pomona

13. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.

Term/Year	Dept Course	Course Title	Quarter hours	Class size
Fall 2006	CS 130	Discrete Structures	4	35
Fall 2006	CS 264	Computer Organization and Assembly Programming	4	33
Winter 2007	CS 411	Compilers and Interpreters	4	25
Winter 2007	CS 460	Secure Communication	4	24
Fall 2007	CS 375	Computers and Society	4	59
Fall 2007	CS 460	Secure Communication	4	18

14. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.

As Chair of the Computer Science Department, I am responsible for supervising staff (administrative, information technology and advising), scheduling classes and hiring part-time lecturers, budgeting and operations, and presiding at department meetings.

15. Number of students for which you serve as academic advisor: 55

16. Estimate the percentage of your time devoted to scholarly and/or research activities: 10%. Please give a brief description of your major research and scholarly activities:

Research is done largely in conjunction with Master’s student supervision. During the last five years, all of my Master’s students have studied in the area of secure communication and cryptography. Most recently, Bao Ngo and I have implemented an identity-based cryptosystem using bilinear pairings on elliptic curve groups.

17. If you are not a full-time faculty member, state what percentage of full-time you work: 100%. Percentage of this time allocated to the computer science program being evaluated: 100%.

1. Name, current academic rank, and tenure status

Dr. Robert W. Kerbs Associate Professor Tenured (Effective Fall 2008)

2. Date of original appointment to this faculty, followed by dates and ranks of advancement

Assistant Professor, Computer Science Department, 2002 Associate Professor, Computer Science Department, 2007
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3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Ph.D.	Computer Science	Nova Southeastern University	2001
M.S.	Computer Science	Nova Southeastern University	1999
B.S.	Electrical Engineering	California State University, Long Beach	1987
A.A.	Recording Engineering	Goldenwest College, Huntington Beach	1984

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

N/A

5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improve teaching and professional competence in computer science.

Each year I attend at least one CS-related seminar at the California Institute of Technology (Caltech) in Pasadena, California; these are presented by Caltech faculty.

Partner Representative in the International Game Developers Association (IGDA) for California State Polytechnic University, Pomona (2005–07).

Referee: International Journal of Computers and Their Application (2004–05).
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6. Other related computing experience including teaching, industrial, governmental, etc. (Where, when, description and scope of duties)

1997–2001	System Manager, The California Institute of Technology, Pasadena, California.
1996–97	Programmer, Kronos Digital Entertainment, Pasadena, California.
1995–96	Programmer, The Centos Company, Los Alamitos, California.
1992–95	Editor/Publisher, The Centos Company, Los Alamitos, California.
1987–92	Product Line Manager, Texas Instruments, Dallas, Texas.

7. Consulting—list agencies and dates, and briefly describe each project.

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8. Department, college and/or university committees of which you are a member.

Department-level—curriculum and laboratory committees. University-level—IT committee.
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9. Principal publications during the last five years. Give in standard bibliographic format.

F. Tang, R. W. Kerbs, and G. S. Young, “Improving CS Student Retention with Intelligent Agents,” Proceedings of the AAAI Spring Symposium 2008: Palo Alto, CA.
R. W. Kerbs, “Student Teamwork: A Capstone Course in Game Programming,” 37th ASEE/IEEE Frontiers in Education Conference 2007: Milwaukee, WI.
R. W. Kerbs, “Faculty Postmortem: Cal Poly Pomona's Game Development Course,” Gamasutra.com, http://www.gamasutra.com/features/20060713/kerbs_01.shtml , July 13, 2006.
R. W. Kerbs, “Social and Ethical Considerations in Virtual Worlds,” The Electronic Library, Special Issue: 23(5), 2005, pp 539–546. This paper was selected as one of ten best papers (out of 20) at the 3rd International Conference on Application and Development of Games (ADCOG) 2004.
R. W. Kerbs, “An Empirical Comparison of User Color Preferences in Electronic Interface Design,” 19th International Symposium on Human Factors in Telecommunication 2003: Berlin, Germany, available online at: http://www.hft.org/HFT03/HFT03_Programme.htm .
R. W. Kerbs, “Internet Gaming in the Era of IPv6,” The Electronic Library, Special Issue: Network and Security Issues for Internet Mobile Entertainment, 22(1), 2004, pp 16–22. This paper was selected as one of the nine best papers (out of 45) at the 2nd International Conference on Application and Development of Games (ADCOG) 2003.

10. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

Spring 2008 sabbatical—to develop a CS laboratory manual.

Grants

California State Polytechnic University, Pomona, Quality Learning Fund, 2007 (\$12912).

ACM, Federated Computing Research Conference Educator's Travel Grant, 2007 (\$1060).

California State Polytechnic University, Pomona, Presidential Travel Fund Grant to attend 2007 Game Developers Conference (\$400).

California State Polytechnic University, Pomona, Presidential Travel Fund Grant to attend 2006 Game Developers Conference (\$400).

California State Polytechnic University, Pomona, Academic Travel Grant, 2005 (\$400).

California State Polytechnic University, Pomona, Faculty Development Grant, 2003 (\$560).

11. Scientific, professional and honor societies of which you are a member.

Member, Association for Computing Machinery (ACM).

Member, Institute of Electrical and Electronic Engineers (IEEE) Computer Society.

Member, Tau Beta Pi honor society.

12. Honors and awards.

Winner, one of ten best papers at the 3rd International Conference on Application and Development of Games (ADCOG) 2004 for "Social and Ethical Considerations in Virtual Worlds."

Winner, one of nine best papers at the 2nd International Conference on Application and Development of Games (ADCOG) 2003 for "Internet Gaming in the Era IPv6."

13. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.

Term/Year	Dept Course	Course Title	Quarter hours	Class size
Fall 2006	CS 140	Introduction to Computer Science	4	35
Fall 2006	CS 431	Operating Systems	4	23
Winter 2007	CS 499	Special Topics—Programming Game Engines	4	25
Winter 2007	CS 570	Human Computer Interaction	4	14
Spring 2007	CS 499	Special Topics—Game Development	4	10
Spring 2007	CS 565	Advanced Computer Networks	4	9
Fall 2007	SCI 101	Science and Mathematics: Freshman Experience I	1	29
Fall 2007	SCI 101A	Science and Mathematics: Freshman Experience I	1	29
Fall 2007	SCI 101	Science and Mathematics: Freshman Experience I	1	29
Fall 2007	SCI 101A	Science and Mathematics: Freshman Experience I	1	29
Fall 2007	SCI 101	Science and Mathematics: Freshman Experience I	1	25
Fall 2007	SCI 101A	Science and Mathematics: Freshman Experience I	1	25
Winter 2008	CS 140	Introduction to Computer Science	4	38
Winter 2008	SCI 102	Science and Mathematics: Freshman Experience II	1	28
Winter 2008	SCI 102A	Science and Mathematics: Freshman Experience II	1	29

14. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.

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15. Number of students for which you serve as academic advisor: 55 undergraduate and 2-3 graduate

16. Estimate the percentage of your time devoted to scholarly and/or research activities: 15%. Please give a brief description of your major research and scholarly activities:

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17. If you are not a full-time faculty member, state what percentage of full-time you work: 100%. Percentage of this time allocated to the computer science program being evaluated: 100%.

1. Name, current academic rank, and tenure status

Dr. Chung Lee Professor Emeritus Tenured (FERP—Faculty Early Retirement Program)
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2. Date of original appointment to this faculty, followed by dates and ranks of advancement

Associate Professor, Computer Science Department, 1982 Professor, Computer Science Department, 1988 Professor Emeritus, Computer Science Department, 2005

3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Post-Doc.	Biostatistics	University of California, Los Angeles	1973
Ph.D.	Crop Science	Michigan State University	1970
M.S.	Agronomy	Seoul National University	1967
B.S.	Agronomy	Seoul National University	1965

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

Programming Languages (Fortran, PL/I) at Michigan State University (Fall 1968) Computer Application of Statistical methods at Michigan State University (Winter 1970) Programming Language (Pascal, Fortran) At UCLA (Fall 1972) Operating Systems (OS/360) at UCLA (Fall 1972)
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Attended short courses in Database, Computer graphic, networking, Unix system, Software Engineering, CAI, Bioinformatics and AI.

5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improve teaching and professional competence in computer science.

Various short workshops while at Chancellor's office (1978–1982) and at Cal Poly—attended at least 25 workshops and tutorial sessions on the subjects including statistics, Unix operating system, communication/network, computer graphics, programming languages, OO methods, software engineering (V&V, HCI), AI, and teaching methods.
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Publication/Presentation

C. Lee, "Visualization of Multidimensional Database," Conference on Visualization and Data Analysis, January 28–29, 2008 at San Jose, California, published in Proceeding SPIE Vol 6809 OM7.

Special Seminar/Presentations

School of engineering, Ho Chi Minh University of Engineering and Technology, Vietnam, May 5–6, 2008

"Current trends in Software Engineering methods"

"Agile software development method"

Guatemala City Cultural Center, August 14–16, 2007

"Java programming workshop"

"A+ certification workshop"

University of Malang, Indonesia, May 21–23, 2007

"Medical imaging and application of graphics"

"Java GUI programming workshop"

"Cyber University"

University of Malang, Indonesia, May 29–June 2, 2006

"Bioinformatics for new age"

"Java language workshop"

"IT education and curriculum"

Workshops and seminars in the subject of A+, multimedia file management, usage of PowerPoint and web programming

6. Other related computing experience including teaching, industrial, governmental, etc. (Where, when, description and scope of duties)

1985–87 Jet Propulsion Lab, NASA in Pasadena, CA

Conducted 4 lecture series in computer graphics (15 weeks each)

1986–89 Rockwell International, Downey, CA

Taught in-house training courses in data Structures and the Ada language.

Production team for video course series in Software Engineering.

Conducted research project in software tools usage analysis.

Planned joint project for computerized restoration of old design specifications.

Served as faculty advisor for unit testing of Gun Ship control software in Ada.

1997 Jet Propulsion Laboratory, NASA
Offered a course series in Object Oriented Software Engineering to employees of MIPS (Multi-purpose Image Processing System) group. This lasted 9 months and team-taught with 3 other faculty in the CS department.

1997, 1999 Taught courses in Computer graphics and Java language to CS majors of Yanbian University of Science and Technology(YUST) and government officials in Yanji, China.

1997–2000 Cal Poly Pomona
Conduct courses in object-oriented methods, graphics and database for Korean teachers.

2001–present Bethel Korean Church, Irvine, CA
Conducted numerous training courses in computer literacy, productivity software and internet usage.

2002–present Overseas seminar and workshop
Traveled to China, Indonesia, Guatemala and Vietnam to present workshops and seminars in the subjects Medical Imaging, Software Engineering, Agile development method, SOA/ESB, Java programming language and bioinformatics.

7. Consulting—list agencies and dates, and briefly describe each project.

1994–present Ministry of Agriculture, Republic of Korea (Advising on computer applications and software)

1997–present Yanbian Univ. of Tech., China. Adjunct professor (Curriculum development and teaching)

2000 Rutilus Inc, Irvine, CA (Supervision of software development team)

8. Department, college and/or university committees of which you are a member.

9. Principal publications during the last five years. Give in standard bibliographic format.

C. Lee, “Visualization of Multidimensional Database,” Conference on Visualization and Data Analysis, January 28–29, 2008 at San Jose, California, published in Proceeding SPIE Vol 6809 OM7.

10. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

Attended 3 conferences on Biotechnology and bioinformatics.
 Presented a paper on database visualization (January 2008).
 Directing master’s thesis and serving graduate thesis committees.
 Reviewed textbook drafts in the subject of Software Engineering.
 Develop software for vote counting system for a large organization.

11. Scientific, professional and honor societies of which you are a member.

ACM, IEEE, SPIE

12. Honors and awards.

13. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.

Term/Year	Dept Course	Course Title	Quarter hours	Class size
Fall 2006	CS 245	Programming Graphical User Interfaces	4	41
Fall 2006	CS 599	Bioinformatics for Computer Scientists	4	10
Winter 2007	CS 480	Software Engineering	4	30
Winter 2007	CS 519	Computer Vision	4	9
Fall 2007	CS 480	Software Engineering	4	24
Winter 2008	CS 245	Programming Graphical User Interfaces	4	42
Winter 2008	CS 463	Undergraduate Seminar	2	10
Winter 2008	CS 585	Software Verification and Validation	4	15

14. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.

15. Number of students for which you serve as academic advisor: 0

16. Estimate the percentage of your time devoted to scholarly and/or research activities: %. Please give a brief description of your major research and scholarly activities:

Visualization of database Development of software—Voting system Curriculum development for Biotechnology and animation program Chairing program committee of IT Conference (Outside of Cal Poly) Mission trips to Indonesia, Vietnam, Guatemala; offer seminars and workshops

17. If you are not a full-time faculty member, state what percentage of full-time you work: 50 %. Percentage of this time allocated to the computer science program being evaluated: 100 %.

1. Name, current academic rank, and tenure status

Dr. H. K. Liu
Professor
Tenured

2. Date of original appointment to this faculty, followed by dates and ranks of advancement

Assistant Professor, Mathematics Department, Fall 1976
Associate Professor, Mathematics Department, Fall 1980
Associate Professor, Computer Science Department, Fall 1982
Professor, Computer Science Department, Fall 1985

3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Ph.D.	Computer Science	State University of New York at Buffalo	1976
M.S.	Electrical Engineering	University of Cincinnati	1971
B.S.	Electrical Engineering	Taiwan National Cheng Kung University	1968

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

N/A

5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improve teaching and professional competence in computer science.

6. Other related computing experience including teaching, industrial, governmental, etc. (Where, when, description and scope of duties)

7. Consulting—list agencies and dates, and briefly describe each project.

1997–2000 Raytheon Systems Company Laboratory Automation, Statistic Computing
1980–92 General Dynamics Corp Computer Simulation, High-speed Computation, Computer Graphics
Summers 1977, 1978 Medical Image Processing Group, Computer Science Department, State University of New York at Buffalo Three-dimensional Display of CAT data

8. Department, college and/or university committees of which you are a member.

Department RTP Committee Department Search Committee Department Curriculum Committee Department Scholarship Committee College RTP Committee College Teaching Excellence Award committee College Quality Learning Review Committee University Faculty Hearing Panel

9. Principal publications during the last five years. Give in standard bibliographic format.

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10. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

Sabbatical leave, 1986, 1993, 2002

11. Scientific, professional and honor societies of which you are a member.

Member, Association for Computing Machinery (ACM) Referee, IEEE Transactions on Medical Imaging Referee, IEEE Transactions on Systems, Man and Cybernetics Referee, The SRA Computer Science Series Referee, National Computer Conference Referee, George E. Forsythe Student Paper Competition
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12. Honors and awards.

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13. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.

Term/Year	Dept Course	Course Title	Quarter hours	Class size
Summer 2006	CS 264	Computer Organization and Assembly Programming	4	17
Summer 2006	CS 331	Design and Analysis of Algorithms	4	26
Summer 2006	CS 431	Operating Systems	4	23
Summer 2006	CS 463	Undergraduate Seminar	2	11
Winter 2007	CS 140	Introduction to Computer Science	4	36
Winter 2007	CS 264	Computer Organization and Assembly Programming	4	26
Winter 2007	CS 420	Artificial Intelligence	4	17
Spring 2007	CS 301	Numerical Methods	4	35
Spring 2007	CS 408	Programming Languages	4	30
Spring 2007	CS 420	Artificial Intelligence	4	34
Fall 2007	CS 140	Introduction to Computer Science	4	19
Fall 2007	CS 301	Numerical Methods	4	13
Fall 2007	CS 431	Operating Systems	4	11
Winter 2008	CS 408	Programming Languages	4	28
Winter 2008	CS 420	Artificial Intelligence	4	22
Winter 2008	CS 431	Operating Systems	4	23
Spring 2008	CS 141	Introduction to Programming and Problem-Solving	4	33
Spring 2008	CS 408	Programming Languages	4	22
Spring 2008	CS 431	Operating Systems	4	18

14. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.

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15. Number of students for which you serve as academic advisor: 55

16. Estimate the percentage of your time devoted to scholarly and/or research activities: 15%.
Please give a brief description of your major research and scholarly activities:

17. If you are not a full-time faculty member, state what percentage of full-time you work:
100%. Percentage of this time allocated to the computer science program being evaluated:
100%.

1. Name, current academic rank, and tenure status

Dr. Halina Przymusinska Professor Emeritus Tenured (FERP—Faculty Early Retirement Program)
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2. Date of original appointment to this faculty, followed by dates and ranks of advancement

Associate Professor, Computer Science Department, 1991 Professor, Computer Science Department, 1995 Professor Emeritus, Computer Science Department, 2005

3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Ph.D.	Mathematics	University of Warsaw, Poland	1979
M.S.	Mathematics	University of Warsaw, Poland	1970

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

Several CS courses taken at the University of Pittsburgh in 1982.

5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improve teaching and professional competence in computer science.

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6. Other related computing experience including teaching, industrial, governmental, etc. (Where, when, description and scope of duties)

1991–present Adjunct Professor, Computer Science, University of California, Riverside 2007 Visiting Professor, Computer Science, Yonsei University, Korea (Summer) 1997 Visiting Professor, New University of Lisbon, Portugal (Summer) 1996–97 Visiting Professor, University of Warsaw, Poland 1991–92 Visiting Professor, University of Linkoping, Sweden (Summer) 1988–91 Associate Professor, Computer Science, University of Texas at El Paso 1984–88 Assistant Professor, Computer Science, University of Texas at El Paso

7. Consulting—list agencies and dates, and briefly describe each project.

Consultant for the research project “Parallel Prolog on the Intel Super-Computer”, Computing Research Lab, New Mexico State University, 1987.

8. Department, college and/or university committees of which you are a member.

9. Principal publications during the last five years. Give in standard bibliographic format.

J. Alferes, L. Pereira, H. Przymusinska, T. Przymusinski, "LUPS—a language for updating logic programs," *Artificial Intelligence Journal*, 138, (1–2), 87–116, 2002.

J. A. Leite, J. J. Alferes, L. M. Pereira, H. Przymusinska, T. C. Przymusinski, "A Language for Multi-dimensional Updates," *Electronic Notes in Theoretical Computer Science*, 70, 5, N/A, 2002.

J. A. Leite, J. J. Alferes, L. M. Pereira, H. Przymusinska, T. C. Przymusinski, "A Language for Multi-dimensional Updates," *Procs. of the 3rd Intl. Workshop on Computational Logic in Multi-Agent Systems, (CLIMA'02)*, Roskilde University, Denmark, August 2002, 19–34, 2002.

J. A. Leite, J. J. Alferes, L. M. Pereira, H. Przymusinska, T. C. Przymusinski, "A Language for Updates with Multiple Dimensions," *Procs. of the APPIA-GULP-PRODE'02 Joint Conf. on Declarative Programming (AGP'02)*, Madrid, Spain, September 2002, 11 pages, 2002.

10. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

11. Scientific, professional and honor societies of which you are a member.

Member of the Center for Research in Intelligent Systems (CRIS) at the University of California at Riverside.

12. Honors and awards.

Member of the editorial board of two international journals—*Journal of Experimental and Theoretical Artificial Intelligence* and *Journal of Applied Non-Classical Logics*.

College of Science’s 1996 R. W. Ames Award for Research Excellence.

Founding member of the Center for Research in Intelligent Systems (CRIS) at the University of California at Riverside.

13. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.

Term/Year	Dept Course	Course Title	Quarter hours	Class size
Fall 2006	CS 420	Artificial Intelligence	4	15
Fall 2006	CS 515	Automated Reasoning	4	7
Spring 2007	CS 311	Language Translation and Automata	4	29
Spring 2007	CS 352	Symbolic Programming	4	28
Winter 2008	CS 130	Discrete Structures	4	35
Winter 2008	CS 311	Language Translation and Automata	4	25
Spring 2008	CS 130	Discrete Structures	4	35
Spring 2008	CS 311	Language Translation and Automata	4	35

14. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.

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15. Number of students for which you serve as academic advisor: 0

16. Estimate the percentage of your time devoted to scholarly and/or research activities: 20 %.
Please give a brief description of your major research and scholarly activities:

<p>My scientific work was centered around the knowledge representation issues with the special emphasis on problems associated with non-monotonic reasoning and with applications of logic programming to knowledge representation. Together with M. Gelfond I was one of the early proponents of the study of Autoepistemic Logic and its relations to other formalisations of common sense reasoning. This work was followed by some preliminary studies of applicability of logic programming as a language for software specifications and issues of elaboration tolerance. More recently I was working with J. Alferes, L. Pereira, and T. Przymusinski on dynamic updates of knowledge bases.</p>

17. If you are not a full-time faculty member, state what percentage of full-time you work: 50 %. Percentage of this time allocated to the computer science program being evaluated: 100 %.

1. Name, current academic rank, and tenure status

Dr. Amar Raheja Associate Professor Tenured

2. Date of original appointment to this faculty, followed by dates and ranks of advancement

Assistant Professor, Computer Science Department, 2001 Associate Professor, Computer Science Department, 2005
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3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Ph.D.	Engineering	University of Toledo, OH	1999
M.S.	Physics (Electronics)	Indian Institute of Technology, Kharagpur, India	1994
B.S.	Physics	Indian Institute of Technology, Kharagpur, India	1992

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

Have taken various computer science courses at undergraduate and graduate level.
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Taught computer science courses in the Computer Science department at Philadelphia University as a tenure track assistant professor for two years (1999–2001).
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5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improve teaching and professional competence in computer science.

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6. Other related computing experience including teaching, industrial, governmental, etc. (Where, when, description and scope of duties)

Industry Contract: “Advanced 3-D Locator Base-station Software”, L3 Communications, Inc., Anahiem, CA, January 1, 2007–June 1, 2008, \$78400.

Develop graphics based software for visualization of real time first emergency responders.
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7. Consulting—list agencies and dates, and briefly describe each project.

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8. Department, college and/or university committees of which you are a member.

Department Committees Curriculum Committee Chair (coordinator), Member, 2005–08. Retention, Tenure and Promotion Committee, 2005–present. Laboratory Committee, 2001–present. College Committees College Curriculum Committee, Member, 2005–08. University Committees University Senator from College of Science, 2008–09. University General Education Committee, 2006–09.

9. Principal publications during the last five years. Give in standard bibliographic format.

T. Chan and A. Raheja, “Use of Neural Networks to Detect Impaired Cheating on the Computerized CERAD Word List Memory Test,” 2008 International Conference on Artificial Intelligence (ICAI 08), Las Vegas, Nevada, July 14–17 2007. D. Livesay, S. Pande and A. Raheja, “Prediction of Enzyme Catalytic Sites from Sequence Using Neural Networks,” IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB 07), Honolulu, Hawaii, April 1–5 2007. Y. Chan and A. Raheja, “Wavelet Lifting for Speckle Noise Reduction in Medical Ultrasound Images,” 27 th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBS 06), Shanghai, China, September 1–4 2005. A. Lam and A. Raheja, “Neural Network Models for Fabric Drape Prediction,” International Joint Conference on Neural Networks (IJCNN 04), Budapest, Hungary, July 25–29 2004. C. Frank, A. Raheja and L. Sztandera, “Fuzzy Forecasting of Apparel Sales,” National Textile Center Research Forum, Hilton Head Island, SC, February 15–17, 2004. C. Frank, A. Garg, A. Raheja and L. Sztandera, “Forecasting Women's Apparel Sales using Mathematical Modeling,” International Journal of Clothing Science and Technology 15 (2), pp. 107–125, 2003. C. Frank, A. Garg, A. Raheja and L. Sztandera, “A Fuzzy Forecasting Model, International Textile Design and Engineering Conference,” Edinburgh, UK, September 22–24, 2003. C. Frank, A. Garg, A. Raheja and L. Sztandera, “Fuzzy Forecasting Model for Apparel Sales,” National Textile Center Research Forum, Hilton Head Island, SC, February 9–12, 2003.

10. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

National Science Foundation

IDBR: Excitation-Emission Matrix Fluorescence Detection for Capillary Electrophoresis (NSF DBI 0754837) Role: Co-PI (PI: Dr. Timothy Corcoran); \$177,564; May 2008–June 2010

National Science Foundation

Acquisition of a workstation network for research in parallel and distributed computing (NSF MRI 0321333) Role: Co-PI (PI: Dr. Hairong Kuang); \$159,658; September 2003–August 2005

National Textile Center (US Department of Commerce)

Fuzzy Forecasting Model for Apparel Sales (NTC S01-PH10)
Role: PI; \$300,000; June 2001–May 2004

Sabbatical: Fall 2005, Worked on using distributed computed for wavelet based image reconstructions algorithms for Positron Emission Tomography.

11. Scientific, professional and honor societies of which you are a member.

Member, Association for Computing Machinery (ACM).

Member, Institute of Electrical and Electronic Engineers (IEEE).

Member, IEEE Engineering in Medicine and Biology Society.

Member, IEEE Computer Society.

12. Honors and awards.

Referee, IEEE Transactions on Medical Imaging.

Referee, IEEE Transactions on Biomedical Engineering.

13. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.

Term/Year	Dept Course	Course Title	Quarter hours	Class size
Fall 2006	CS 256	C++ Programming	4	16
Fall 2006	CS 445	Computer Graphics	4	19
Summer 2006	CS 301	Numerical Methods	4	19
Summer 2006	CS 408	Programming Languages	4	29
Winter 2007	CS 301	Numerical Methods	4	28
Winter 2007	CS 408	Programming Languages	4	24
Spring 2007	CS 128	Introduction to C++	4	50
Spring 2007	CS 445	Computer Graphics	4	28
Summer 2007	CS 408	Programming Languages	4	13
Fall 2007	CS 130	Discrete Structures	4	27
Fall 2007	CS 555	Computer Image Processing	4	10
Fall 2007	SCI 101	Science and Mathematics: Freshman Experience I	1	14
Fall 2007	SCI 101A	Science and Mathematics: Freshman Experience I	1	14
Winter 2008	CS 128	Introduction to C++	4	34
Winter 2008	CS 256	C++ Programming	4	25
Spring 2008	CS 128	Introduction to C++	4	37
Spring 2008	CS 299	Special Topics—Unix and Scripting	4	33

14. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.

Computer Science Department Curriculum Coordinator: 2005–08
Hours spent per quarter: 8

15. Number of students for which you serve as academic advisor: 55 undergraduate and 2–5 graduate
16. Estimate the percentage of your time devoted to scholarly and/or research activities: 30%. Please give a brief description of your major research and scholarly activities:

Conduct research for grants and direct graduate students' theses in soft computing methods, image processing, medical image compression and denoising, bioinformatics.

17. If you are not a full-time faculty member, state what percentage of full-time you work: 100%. Percentage of this time allocated to the computer science program being evaluated: 100%.

1. Name, current academic rank, and tenure status

Dr. Salam Salloum
 Professor
 Tenured

2. Date of original appointment to this faculty, followed by dates and ranks of advancement

Associate Professor, Computer Science Department, 2001
 Professor, Computer Science Department, 2005

3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Ph.D.	Computer Science	University of Southern California	1979
M.S.	Electrical Engineering (Computer)	University of Southern California	1980
M.S.	Applied Math	University of Southern California	1977
M.S.	Computer Science	University of Southern California	1974
B.S.	Mathematics	University of Baghdad	1971

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

N/A

5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improve teaching and professional competence in computer science.

Attended the joint-Cal Poly Pomona-IBM training workshop on Rational System Architecture, June 14–16, 2006.
 Attended the 2007 Federated Computing Research Conference and selected affiliated conferences and tutorials, June 8–16, 2007.

Attended tutorials and presented research papers at the following conferences:

The International Computer Science and Technology Conference, April 1–3, 2008, San Diego, CA.

The 2007 International Conference on Computer Design, June 25–28, 2007, Las Vegas, Nevada.

The 2006 International Conference on Computer Science and Applications, June 27–30, 2006, San Diego, CA.

The 2005 International Conference on Computer Science and its Applications, June 27–29, 2005, San Diego, CA.

The 2004 International Conference on VLSI, June 21–24, 2004, Las Vegas, Nevada, USA.

The 2003 IEEE Pacific Rim Conference on Communication, Computer, and Signal Processing, August 28–30, 2003, Victoria, BC, Canada.

The 2003 International Conference on Communication in Computer, June 23–26, 2003, Las Vegas, Nevada, USA.

6. Other related computing experience including teaching, industrial, governmental, etc. (Where, when, description and scope of duties)

1997–2000 Assistant/Associate Prof. of Computer Science, Univ. of Wisconsin, Oshkosh.

1995–97 Assistant Professor of Computer Science, University of Houston, Victoria.

1994–95 Software Consultant, PKWARE Inc, Wisconsin.

1993 Visiting Associate Professor, University of Southern California.

1992–94 Associate Professor, University of Sa'ana, Yemen.

1991–92 Associate Professor, University of Yarmouk, Jordan.

1980–86 Assistant Professor of Computer Science, University of Baghdad.

1981–83 Director, Computing Center, College of Engineering-University of Baghdad.

1986–91 Associate professor of Computer Science, University of Baghdad.

1983–91 Chair, Department of Computer Science, University of Baghdad.

1983–91 Director, Computing Center, College of Science, University of Bagdad.

1979–80 Research Scientist, University of Southern California.

1972–76 Teaching Assistant, University of Southern California.

7. Consulting—list agencies and dates, and briefly describe each project.

1994–95 PKWRE Inc, design and implementation of some algorithms for the software package PKZIP.

1994–99 TRIMED Inc. design and implementation of medical applications and expert systems.

1983–91 Engineering Consulting Bureau, University of Baghdad, Software Engineer and/or Team Leader for several software development projects.

8. Department, college and/or university committees of which you are a member.

Departmental Curriculum Committee
Departmental Graduate Committee
Departmental Reappointment, Tenure and Promotion (RTP) Committee.

9. Principal publications during the last five years. Give in standard bibliographic format.

Samira Hussain and S. N. Salloum, "Test Case Generation for White-Box Unit Testing," Proceedings (online) of The International Computer Science and Technology Conference, April 1–3, 2008, San Diego, CA.

S. N. Salloum, "Optimal and Heuristic Testing Procedures for k-out-of-n Systems with Precedence Constraints," Proceedings of the 2007 International Conference on Computer Design, June 25–28, 2007, Las Vegas, Nevada.

S. Salloum and M. Salloum, "Efficient Optimal Algorithms for Test Sequencing with Precedence Constraints for Two Fault Models," Proceedings of the 3rd International Conference on Computer Science and its Applications, June 27–29, 2005, San Diego, CA.

D. Wang and Salam N. Salloum, "Fault-Tolerance Analysis of Some Sorting Networks for Single and Multiple Passes," Proceedings of the 2004 International Conference on VLSI, June 21–24, 2004, Las Vegas, Nevada, USA.

S. N. Salloum, "Fault-Tolerant Routing Analysis of Two Classes of Multistage Interconnection Networks," Proceedings of the 2003 IEEE Pacific Rim Conference on Communication, Computer, and Signal Processing, August 28–30, 2003, Victoria, BC, Canada.

S. N. Salloum and D. Wang, "Fault-Tolerance Analysis of Odd-Even Transposition Sorting Networks with Single Pass and Multiple Passes," Proceedings of the 2003 IEEE Pacific Rim Conference on Communication, Computer, and Signal Processing, August 28–30, 2003, Victoria, BC, Canada.

S. N. Salloum, "Fault-Tolerance Analysis of Multistage Interconnection Networks with Fixed Control Values," Proceedings of the 2003 International Conference on Communication in Computer, June 23–26, 2003, Las Vegas, Nevada, USA.

10. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

Co-PI and the Software Team leader of an undergraduate students research project funded by 4-year (2002–2006) \$1,143,697 NASA Partnership Award for Integration Research grant (NASA PAIR) "Deep Space Exploration Using Smart Robotic Rovers."

Received the ACM FCRC'07 Educator's Travel Grant.

Received a grant from Microsoft that provided software and hardware needed for the research project of the NASA Software Team in designing and implementing a rover using embedded software technology.

Served as the coordinator for the joint-Cal Poly Pomona-IBM training workshop on Rational System Architecture, for the faculty and graduate students in southern California.

Co-Program Chair of the 2005 International Conference on Computer Design, June 2005, Las Vegas, Nevada.

Served as the Capitan of the event “Robot Ramble” of the 2004 and 2005 LA County Regional Science Olympiad in which 28 regional high schools participated.

Served as the Capitan of the event “Robot Ramble” of the 2004 State Science Olympiad in which 24 high schools participated.

Served as a reviewer for the IEEE Transaction on Parallel and Distributed Systems.

Served as a reviewer for the IEEE Transaction on Circuits and Systems.

Served as a reviewer for the International Journal of Information Science.

Served as a reviewer for promotion applications of three faculty members, University of Applied Science and Muta University in Jordan.

Sabbatical Leave, Winter 2006: Conducted research on “Fast RNS Converters Using Multimoduli of the Form 2^n-1 .”

Served on the Program Committee of the Wireless Telecommunication Symposiums 2004–2008, Pomona, California.

Served as a reviewer for several conferences.

Lectured at the Japanese Software Engineers Training Programs.

11. Scientific, professional and honor societies of which you are a member.

IEEE, IEEE Computer Society, and Computer Science Teachers Association.

12. Honors and awards.

Best Paper Award, The International Computer Science and Technology Conference, April 1–3, 2008, San Diego, CA.

13. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.

Term/Year	Dept Course	Course Title	Quarter hours	Class size
Fall 2006	CS 210	Computer Logic	4	31
Fall 2006	CS 241	Data Structures and Algorithms II	4	20
Fall 2006	CS 435	Database Systems	4	29
Summer 2006	CS 241	Data Structures and Algorithms II	4	13
Summer 2006	CS 365	Computer Architecture	4	29
Summer 2006	CS 480	Software Engineering	4	19
Winter 2007	CS 241	Data Structures and Algorithms II	4	33
Winter 2007	CS 435	Database Systems	4	32
Spring 2007	CS 435	Database Systems	4	30
Spring 2007	CS 580	Advanced Software Engineering	4	12
Summer 2007	CS 240	Data Structures and Algorithms I	4	11
Summer 2007	CS 241	Data Structures and Algorithms II	4	20
Summer 2007	CS 480	Software Engineering	4	16
Fall 2007	CS 264	Computer Organization and Assembly Programming	4	18
Fall 2007	CS 463	Undergraduate Seminar	2	8
Fall 2007	CS 575	Topics in Database Systems	4	10
Winter 2008	CS 210	Computer Logic	4	23
Winter 2008	CS 264	Computer Organization and Assembly Programming	4	35
Winter 2008	CS 480	Software Engineering	4	30
Spring 2008	CS 210	Computer Logic	4	35
Spring 2008	CS 264	Computer Organization and Assembly Programming	4	28
Spring 2008	CS 435	Database Systems	4	33

14. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.

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15. Number of students for which you serve as academic advisor: 55

16. Estimate the percentage of your time devoted to scholarly and/or research activities: 25%.
Please give a brief description of your major research and scholarly activities:

Research in the fields of algorithm design, software testing, high-speed computer arithmetic, sorting networks, interconnection networks, and fault tolerant computing and routing.

17. If you are not a full-time faculty member, state what percentage of full-time you work:
100%. Percentage of this time allocated to the computer science program being evaluated:
100%.

1. Name, current academic rank, and tenure status

Dr. Daisy F. Sang
 Professor
 Tenured

2. Date of original appointment to this faculty, followed by dates and ranks of advancement

Assistant Professor, Computer Science Department, 1990
 Associate Professor, Computer Science Department, 1995
 Professor, Computer Science Department, 2000

3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Ph.D.	Computer Science	University of Texas at Dallas	1990
M.S.	Computer Science	University of Texas at Dallas	1986
B.B.A.	Business Administration	Tunghai University, Taiwan	1983

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

N/A

5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improve teaching and professional competence in computer science.

Adobe Presenter, Cal Poly, 2/6/08.
 Introduction to Online Teaching and Blackboard Startup, Cal Poly, 2/1/08.
 Advance STEM Doctoral Enhancement Faculty Retreat, Phoenix, Arizona, 1/18/08.
 Department Colloquium (Software Infrastructure vs. Assembly Line), Cal Poly, 11/6/07.
 Python Workshop at Chapman University, Orange, California, 6/18–21/07.
 JPL SIRI Spring presentations, Pasadena, California, 6/15/07.
 Wireless Telecommunications Symposium, Cal Poly, 4/26/07.
 The 15th International Conference on Software Engineering and Data Engineering, Los Angeles, California, July 6–8, 2006.
 College of Engineering Symposium Day, Cal Poly, 5/19/06.

College of Science Undergraduate Research Symposium, Cal Poly, 5/12/06.
Microsoft Faculty Summer Summit, Seattle, Washington, 7/18–19/05.
Department Colloquium (DreamWorks Animation), Cal Poly, 5/31/05.
College of Engineering Symposium Day, Cal Poly, 5/20/05.
Department Colloquium (Harvey Mudd summer REU program), Cal Poly, 2/4/05.
Wireless Telecommunications Symposium, Cal Poly, 5/14–15/04.
Faculty Center workshop “Enhancing educational environments through learning styles awareness”, Cal Poly, 1/20/04.
National Computational Science workshop, USC, Los Angeles, California, 1/9/04.
College of Science Ames Research Award seminar, Cal Poly, 12/4/03.
College of Science Teaching Excellent Award seminar, Cal Poly, 11/13/03.
Faculty Center workshop “How people learn”, Cal Poly, 10/22/03.

6. Other related computing experience including teaching, industrial, governmental, etc. (Where, when, description and scope of duties)

1983–84 Systems Programmer, Honeywell Information Systems, Taiwan
1985–86 Lab Assistant, Computer Center, Dallas, Texas
1996 Instructor, team-teach the course “Object Oriented Software Engineering” at JPL, Pasadena, California
1997–98 Instructor, “Unix for Programmers”, summer training program, Cal Poly
1997–2001 Instructor, “Object Oriented Methodology”, summer training program, Cal Poly
2002–06 Faculty Advisor, NASA PAIR project, Cal Poly
2006–07 Faculty Mentor, WEEA program, Cal Poly
2006–present Faculty Sponsor, JPL SIRI program, Cal Poly

7. Consulting—list agencies and dates, and briefly describe each project.

8. Department, college and/or university committees of which you are a member.

Department: Curriculum, Graduate, and Search committees; Graduate Coordinator
College: NSF S-STEM scholarship program management team
University: Faculty Hearing committee

9. Principal publications during the last five years. Give in standard bibliographic format.

S. Chen, D. Sang, C. Peng, Virtual Net: An Efficient Simulation for Parallel Computation, International Journal of Modeling and Simulation, Volume 27, 2007.

Y. Xu, D. Sang, C. Peng, Design Patterns for Real-Time Distributed System, proceedings of the 15th International Conference on Software Engineering and Data Engineering, Los Angeles, California, July 6–8, 2006.

S. Phattarasukol, D. Sang, PatternStudio: A New Tool for Design Pattern Management, the 20th annual ACM SIGPLAN conference on Object-Oriented Programming, Systems, Languages, and Applications, Demonstration Session, San Diego, October 16–20, 2005.

Y. Xu, D. Sang, C. Peng, Logging Server: A Case Study with Design Patterns, proceedings of the 4th annual ISOneWorld, Las Vegas, 3/30–4/1/2005.

S. Phattarasukol, D. Sang, Design Pattern Integrated Tool, the 19th annual ACM SIGPLAN conference on Object-Oriented Programming, Systems, Languages, and Applications, Poster Session, Vancouver, Canada, October 24–28, 2004.

D. Chen, D. Sang, K. Tsai, Dynamic Rate Allocation in High Speed Networks, Proceedings of the Hawaii International Conference on Computer Sciences, January 15–18 2004.

10. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

Referee for the 3rd annual Wireless Telecommunications Symposium, 2004

Reviewed a Bachelor of Science in Software Engineering (BSSE) program proposal out of San Jose State University for the Chancellor's Office, 2004

Presidential Travel Funds, 2004, 2005, and 2008

New course developed: CS 299 Visual Basic, 2007

Sabbatical, Fall 2008

11. Scientific, professional and honor societies of which you are a member.

Member, Association for Computing Machinery (ACM)

Member, Chinese American Faculty Association (CAFA)

12. Honors and awards.

Distinguished Teaching Award by College of Science in 2003

Outstanding Computer Science Academic Advisor in 2007 and 2008

13. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.

Term/Year	Dept Course	Course Title	Quarter hours	Class size
Fall 2006	CS 311	Language Translation and Automata	4	33
Fall 2006	CS 480	Software Engineering	4	27
Winter 2007	CS 531	Computability and Complexity Theory	4	6
Winter 2007	CS 664	Graduate Seminar	2	9
Spring 2007	CS 450	Computability	4	26
Spring 2007	CS 463	Undergraduate Seminar	2	12
Fall 2007	CS 299	Special Topics—Visual Basic	4	19
Fall 2007	CS 356	Object-Oriented Design and Programming	4	41
Winter 2008	CS 411	Compilers and Interpreters	4	33
Winter 2008	CS 664	Graduate Seminar	2	11
Spring 2008	CS 256	C++ Programming	4	33
Spring 2008	CS 450	Computability	4	16

14. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.

Graduate Coordinator, 4 WTUs/quarter assigned time. Main responsibilities: Incoming and ongoing student advising, recruitment, admissions, course planning and offering, student progress review, and website maintenance, about 10–12 hours/week.

15. Number of students for which you serve as academic advisor: 25 undergraduate and 50 graduate students
16. Estimate the percentage of your time devoted to scholarly and/or research activities: 20 %. Please give a brief description of your major research and scholarly activities:

Research and scholarly activities in the areas of object-oriented design, software tools and techniques, distributed computing, and embedding algorithms

Direct graduate students on their Master's theses

Supervise undergraduate projects including NASA PAIR senior project, JPL SIRI independent research internship, and WEEA research apprenticeship

17. If you are not a full-time faculty member, state what percentage of full-time you work: 100 %. Percentage of this time allocated to the computer science program being evaluated: 100 %.

1. Name, current academic rank, and tenure status

Dr. Barry I. Soroka Professor Tenured

2. Date of original appointment to this faculty, followed by dates and ranks of advancement

Associate Professor, Computer Science Department, 1987 Professor, Computer Science Department, 1993
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3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Ph.D.	Computer and Information Science	University of Pennsylvania	1979
M.S.E.	Computer and Information Science	University of Pennsylvania	1976
B.A.	Physics	Yale University	1971

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

N/A

5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improve teaching and professional competence in computer science.

2007 March. Attended the 38 th SIGCSE Technical Symposium on Computer Science Education, Covington KY, March 2007. Member of a panel, Assessing Computer Science Programs: What Have We Learned?
2006 March. Attended the 37 th SIGCSE Technical Symposium on Computer Science Education, Houston TX.
2006 February. Visited with robot manufacturers. Medical Design & Manufacturing West, Anaheim Convention Center.
2005 April. Attended the 8th CSU Regional Symposium on University Teaching. Pomona CA, April 2005.
2005 February. Attended the 36 th SIGCSE Technical Symposium on Computer Science Education, St Louis MO.

2004 March. Attended the 35th SIGCSE Technical Symposium on Computer Science Education, Norfolk VA.

2003 February. Attended the 34th SIGCSE Technical Symposium on Computer Science Education, Reno NV.

6. Other related computing experience including teaching, industrial, governmental, etc. (Where, when, description and scope of duties)

Sabbatical Visitor, Electrical Department, Metropolitan Opera House, New York, NY, January 1995 to June 1995. Studied their existing motion control systems. Designed a human interface to join four disparate systems into one unified system.

Jet Propulsion Laboratory, NASA/ASEE Summer Faculty Fellow & Academic Part-Time Employee, Summer 1988 to February 1990. Learned and documented a force-feedback teleoperator system. Designed a new human interface for the system.

Assistant Professor, Electrical Engineering, University of Southern California, July 1981 to August 1987. Brought robotics courses and equipment to USC.

Research Associate, Artificial Intelligence Lab, Computer Science Department, Stanford University, May 1979 to June 1981. Co-supervised/co-managed the robotics project.

Visitor, Institut National de Recherches d'Informatique et d'Automatique (INRIA), Paris, France, Spring 1979. Extended my dissertation results.

Visiting Scientific Researcher, Institut Informatik, University of Hamburg, Germany, Summer 1978. Implemented computer vision algorithms.

7. Consulting—list agencies and dates, and briefly describe each project.

Lockheed-California Company, Burbank, CA, 1984–86. Designed and implemented a simulator for a multi-arm robot assembly system.

Saveriano & Associates, Carlsbad CA, 1983–84. Analyzed the market for robotics and artificial intelligence.

General Electric Company, Industrial Electronics Development Laboratory, Charlottesville, VA, 1983. Guided the design of a programming language for a commercial robot.

Hughes Research Laboratories, Malibu, CA, 1982. Analyzed the portability of ACRONYM, a computer vision system developed at Stanford University.

Logistics Technology Inc, Torrance CA, 1981–83. Assessed the state of the art of robot programming languages. Designed robot programming languages.

Various manufacturers of industrial robots, 1980–86. (Names confidential.) Designed robot programming languages.

8. Department, college and/or university committees of which you are a member.

Member, Academic Senate
Member, Scholarship Committee, Computer Science Department
Member, Curriculum Committee, Computer Science Department
Member, Outreach Committee, Computer Science Department
Chair, Tenure-Track Search Committee, Computer Science Department
Chair, Chair Search Committee, Computer Science Department

9. Principal publications during the last five years. Give in standard bibliographic format.

Science & Technology. Storage and Retrieval for Media Databases 2003. Santa Clara CA, January 2003. With Steven P. Kerrick, Master's Student, Cal Poly Pomona.
Java 5: Objects First. Jones & Bartlett, 2006. ISBN 0763737208

10. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

Fall 2003 & Winter 2004. Sabbatical. Worked on my *Java 5* book.
2006–07. Fellowship in Investigating Teaching and Learning (ITaL). Cal Poly Pomona Faculty Center for Professional Development.

11. Scientific, professional and honor societies of which you are a member.

American Association for Artificial Intelligence (AAAI)
Association for Computing Machinery (ACM): SIGCSE & SIGART
Institute of Electrical and Electronics Engineers (IEEE): Computer Society; Robotics & Automation Society

12. Honors and awards.

2006–07. Fellowship in Investigating Teaching and Learning (ITaL). Cal Poly Pomona Faculty Center for Professional Development.
2007 April. Cal Poly Pomona 21st Annual Golden Leaves Award. For Cal Poly authors.

13. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.

Term/Year	Dept Course	Course Title	Quarter hours	Class size
Fall 2006	CS 128	Introduction to C++	4	35
Fall 2006	CS 140	Introduction to Computer Science	4	29
Summer 2006	CS 141	Introduction to Programming and Problem-Solving	4	9
Summer 2006	CS 420	Artificial Intelligence	4	25
Winter 2007	CS 141	Introduction to Programming and Problem-Solving	4	31
Winter 2007	CS 245	Programming Graphical User Interfaces	4	33
Spring 2007	CS 140	Introduction to Computer Science	4	18
Summer 2007	CS 141	Introduction to Programming and Problem-Solving	4	11
Summer 2007	CS 435	Database Systems	4	27
Fall 2007	CS 140	Introduction to Computer Science	4	35
Fall 2007	CS 435	Database Systems	4	25
Winter 2008	CS 141	Introduction to Programming and Problem-Solving	4	30
Winter 2008	CS 240	Data Structures and Algorithms I	4	16
Spring 2008	CS 240	Data Structures and Algorithms I	4	32
Spring 2008	CS 352	Symbolic Programming	4	35

14. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.

Assessment/Accreditation Coordinator. This assignment comes with 4 WTUs/quarter assigned time. Supervises assessment & accreditation activities. 10 hours/week.

15. Number of students for which you serve as academic advisor: 55

16. Estimate the percentage of your time devoted to scholarly and/or research activities: 10 %.
Please give a brief description of your major research and scholarly activities:

Factors which influence success in CS1. I have been gathering data from CS 140 classes, and I hope to find time to analyze this data and prepare a paper on my findings.

17. If you are not a full-time faculty member, state what percentage of full-time you work: 100 %. Percentage of this time allocated to the computer science program being evaluated: 100 %.

1. Name, current academic rank, and tenure status

Dr. Daisy Tang Assistant Professor Tenure-Track (Untenured)

2. Date of original appointment to this faculty, followed by dates and ranks of advancement

Assistant Professor, Computer Science Department, 2006
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3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Ph.D.	Computer Science	University of Tennessee, Knoxville	2006
M.S.	Computer Science	University of Tennessee, Knoxville	2003
B.S.	Computer Science	Sichuan University, Chengdu, China	2000

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

N/A

5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improve teaching and professional competence in computer science.

<i>Conferences/Workshops/Symposium</i>
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AAAI Spring Symposium: Using AI to Motivate Greater Participation in CS, 2008. AAAI Spring Symposium: Robots and Education, 2007. AAAI Workshop: Auction Mechanisms for Robot Coordination, 2006. AAAI Spring Symposium: To Boldly Go Where No Human-Robot Team Has Gone Before, 2006. IEEE/RSJ International Conference on Intelligent Robots and Systems, 2005. IEEE International Conference on Advanced Robotics, 2005.
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Professional Development Programs

Provost’s Teacher-Scholar Program, Cal Poly Pomona, 2007–08.
Book Reading Circle on “Learning and Motivation in the Postsecondary Classroom”, Cal Poly Pomona, 2007.
Grant Writing Short Course, Cal Poly Pomona, 2007.
“Best Practices in Teaching” Program, University of Tennessee, 2005–06.

Reviewer for Publications

Associate Editor, IEEE/RSJ Intl. Conference on Intelligent Robots and Systems, 2007.
Reviewer, IEEE Transactions on Robotics, 2004, 2005.
Reviewer, International Journal of Control, Automation, and Systems, 2005.
Reviewer, IEEE/RSJ Intl. Conference on Intelligent Robots and Systems, 2005, 2006, 2008.
Reviewer, IEEE International Conference on Robotics and Automation, 2006.
Reviewer, Annual Conference of the IEEE Industrial Electronics Society, 2008.

- 6. Other related computing experience including teaching, industrial, governmental, etc. (Where, when, description and scope of duties)

- 7. Consulting—list agencies and dates, and briefly describe each project.

- 8. Department, college and/or university committees of which you are a member.

Department Curriculum and Outreach Committee, Fall 2006 to present
College Presidential Travel Fund and College Budget Committee, Fall 2007 to present

9. Principal publications during the last five years. Give in standard bibliographic format.

- F. Tang and S. Saha, "An Anytime Winner Determination Algorithm for Time-Extended Multi-Robot Task Allocation," to appear in *Proceedings of International Conference on Automation, Robotics and Control Systems*, 2008.
- F. Tang, R. W. Kerbs and G. S. Young, "Improving CS Student Retention with Intelligent Agents," *Proceedings of the AAAI Spring Symposium on Using AI to Motivate Greater Participation in Computer Science*, 2008.
- F. Tang and L. E. Parker, "A Complete Methodology for Generating Multi-Robot Task Solutions using ASyMTRe-D and Market-Based Task Allocation," *Proceedings of IEEE International Conference on Robotics and Automation*, 2007.
- F. Tang, "Enhance Students' Hands-On Experience With Robotics," *Proceedings of the AAAI Spring Symposium on Robots in Education*, 2007.
- L. E. Parker and F. Tang, "Building Multi-Robot Coalitions through Automated Task Solution Synthesis," *Proceedings of the IEEE, special issue on Multi-Robot Systems*, 2006.
- F. Tang and L. E. Parker, "Layering Coalition Formation With Task Allocation," *Proceedings of the AAAI Workshop: Auction Mechanisms for Robot Coordination*, 2006.
- F. Tang and L. E. Parker, "Automated Human-Robot Teaming through Reconfigurable Schemas," *Proceedings of the AAAI Spring Symposium: To Boldly Go Where No Human-Robot Team Has Gone Before*, 2006.
- F. Tang and L. E. Parker, "Distributed Multi-Robot Coalitions through ASyMTRe-D," *Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems*, 2005.
- F. Tang and L. E. Parker, "Coalescing Multi-Robot Teams through ASyMTRe: A Formal Analysis," *Proceedings of IEEE International Conference on Advanced Robotics*, 2005.
- F. Tang and L. E. Parker, "ASyMTRe: Automated Synthesis of Multi-Robot Task Solutions through Software Reconfiguration," *Proceedings of IEEE International Conference on Robotics and Automation*, 2005.

10. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

College of Science Quality Learning Fund, "Integrate Low-Cost Robots into Classroom to Enhance Learning," College of Science, Cal Poly Pomona, Amount: \$7499.5, 2007 to 2008.

Mini-Grant, "Study of USARSim for Human-Robot Cooperation," Faculty Center for Professional Development, Cal Poly Pomona, Amount: \$1104.8, 2007 to 2008.

Presidential Travel Fund, Cal Poly Pomona, 2007 and 2008.

Summer Fellowship, "Synthesizing Solution For Multi-Robot Applications," Research, Scholarship, and Creative Activity Program at Cal Poly Pomona, Amount: \$5000.0, 2007.

Mini-Grant, "Enhance Students' Hands-On Experience With Robotics," Faculty Center for Professional Development, Cal Poly Pomona, Amount: \$1108.0, 2006 to 2007.

Mentor for WEEA (Women Equity Education Act), supported by Department of Education grant, since 2006.

11. Scientific, professional and honor societies of which you are a member.

Association for the Advancement of Artificial Intelligence (AAAI)

Association for Computing Machinery (ACM)

Upsilon Pi Epsilon International Honor Society for the Computing and Information Disciplines (UPE)

12. Honors and awards.

Provost's Teacher-Scholar Recipient, Cal Poly Pomona (2007 to 2008)

Graduate Student Travel Scholarship for AAAI Spring Symposium (2006)

Upsilon Pi Epsilon International Honor Society for the Computing Sciences (2004)

Graduate Student Travel Award, The University of Tennessee (2003 and 2006)

13. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.

Term/Year	Dept Course	Course Title	Quarter hours	Class size
Fall 2006	CS 128	Introduction to C++	4	36
Fall 2006	CS 130	Discrete Structures	4	33
Winter 2007	CS 240	Data Structures and Algorithms I	4	28
Spring 2007	CS 130	Discrete Structures	4	26
Spring 2007	CS 299	Special Topics—Web Programming and Design	4	44
Fall 2007	CS 240	Data Structures and Algorithms I	4	32
Fall 2007	CS 420	Artificial Intelligence	4	35
Winter 2008	CS 299	Special Topics—Web Programming and Design	4	29
Winter 2008	CS 521	Robotics	4	25
Spring 2008	CS 420	Artificial Intelligence	4	37
Spring 2008	CS 463	Undergraduate Seminar	2	15
Spring 2008	CS 525	Advanced Computer Architecture	4	16

14. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.

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15. Number of students for which you serve as academic advisor: 55

16. Estimate the percentage of your time devoted to scholarly and/or research activities: 30 %. Please give a brief description of your major research and scholarly activities:

Major activities include advising graduate/undergraduate students on research projects; grant proposal writing; paper writing; and attending professional conferences.
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17. If you are not a full-time faculty member, state what percentage of full-time you work: 100 %. Percentage of this time allocated to the computer science program being evaluated: 100 %.

1. Name, current academic rank, and tenure status

Dr. Lan Yang
Professor
Tenured

2. Date of original appointment to this faculty, followed by dates and ranks of advancement

Assistant Professor, Computer Science Department, 1990
Associate Professor, Computer Science Department, 1996
Professor, Computer Science Department, 2000

3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Ph.D.	Computer Science	Shanghai Jiao Tong University, China	1988
M.S.	Computer Science	Shanghai Jiao Tong University, China	1986
B.S.	Computer Science	Shanghai Jiao Tong University, China	1983

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

N/A

5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improve teaching and professional competence in computer science.

Summer Computer Simulation Conference (SCSC'07), San Diego, California, July 2007.
4th ACIS International Conference on Software Engineering Research, Management & Applications (SERA 2006), Seattle, Washington, August 2006.
7th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking, Parallel/Distributed Computing (SPND 2006), Las Vegas, NV, June, 2006.
International Conference on Communications in Computing, Las Vegas, NV, June 2005.
5th World Congress on Intelligent Control and Automation, June 2004, Hangzhou, China.
IEEE Computer Communications Workshop (CCW'03), Dana Point, CA, October 2003.
International Conference on Wireless Networks (ICWN'03), Las Vegas, NV, June 2003.
Attended about a dozen of Cal Poly Pomona E-learning workshops.
Arizona State University and Cal Poly Pomona ADVANCE program retreat, Phoenix, Arizona, January 2008.
Reviewed a number of technical papers as well as book chapters.

6. Other related computing experience including teaching, industrial, governmental, etc. (Where, when, description and scope of duties)

7. Consulting—list agencies and dates, and briefly describe each project.

8. Department, college and/or university committees of which you are a member.

University: Faculty development advisory committee
College: Disqualification appeals committee
Department: RTP, Curriculum and Outreach committees

9. Principal publications during the last five years. Give in standard bibliographic format.

- L. Yang, P. Sutinrerk, Mirrored Arbiter Architecture: A network Architecture for Large Scale Multiplayer Games. Proceedings of the 2007 Summer Computer Simulation Conference (SCSC'07), San Diego, California, July 15–18, 2007, pp. 709–716.

P. Vasudeva, L. Yang, A Rule-based Security Engine for XML Web Services, 4th ACIS International Conference on Software Engineering Research, Management & Applications (SERA 2006), Seattle, Washington, August 9–11, 2006.

H. Ma, L. Yang, Improvement of Object Serialization in Java Remote Method Invocation, Proceedings of 7th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking, Parallel/Distributed Computing (SPND 2006), pp. 35–40, Las Vegas, NV., June 19–20, 2006.

L. Yang, L. Hu, W. Tsai, J. Ros, A New Server Bypass Architecture to Increase Storage Traffic Bandwidth, Proceedings of the 2005 International Conference on Communications in Computing, Las Vegas, Nevada, June 2005, pp. 31–34.

L. Li, L. Yang, Automatic Schema Matching for Data Warehousing, Proceedings of the 5th World Congress on Intelligent Control and Automation, pp. 3939–3943, June 15–19, 2004, Hangzhou, China.

X. Fu, L. Yang, Improvement to HOME-based Internet Web Caching Protocol, Proceedings of 2003 IEEE Computer Communications Workshop (CCW'03), Dana Point, California, October 2003, pp. 159–165.

T. Jang, L. Yang, Investigation of A Polling MAC for Wireless LANs, Proceedings of the International Conference on Wireless Networks (ICWN'03), Las Vegas, Nevada, June 2003, pp. 465–471.

10. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

Sabbatical, Fall 2005

Grants, (1) A number of Presidential Travel Funds, Cal Poly Pomona, and (2) mini-grants from Cal Poly Pomona faculty development center and I&IT.

Mentor, WEEA (Women Equity Education Act), supported by a Dept. of Education grant.

11. Scientific, professional and honor societies of which you are a member.

Member of Chinese Scholar Association, also a member of its Science and Engineering Committee.

12. Honors and awards.

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13. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.

Term/Year	Dept Course	Course Title	Quarter hours	Class size
Fall 2006	CS 463	Undergraduate Seminar	2	9
Summer 2006	CS 311	Language Translation and Automata	4	19
Winter 2007	CS 365	Computer Architecture	4	38
Winter 2007	CS 463	Undergraduate Seminar	2	18
Spring 2007	CS 525	Advanced Computer Architecture	4	15
Summer 2007	CS 463	Undergraduate Seminar	2	13
Fall 2007	CS 365	Computer Architecture	4	34
Winter 2008	CS 130	Discrete Structures	4	28
Winter 2008	CS 365	Computer Architecture	4	23
Winter 2008	CS 463	Undergraduate Seminar	2	14
Winter 2008	SCI 102	Science and Mathematics: Freshman Experience II	1	27
Winter 2008	SCI 102A	Science and Mathematics: Freshman Experience II	1	27
Spring 2008	CS 365	Computer Architecture	4	24
Spring 2008	CS 463	Undergraduate Seminar	2	11
Spring 2008	CS 535	Parallel and Distributed Algorithms	4	20

14. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.

Spring 2008, 2 WTUs WEEA mentoring program—Dept. of Education research grant.
Average 2 hours per week across the academic year.
Fall 2006–Fall 2007, Department Chair. Average 30 hours per week.

15. Number of students for which you serve as academic advisor: 55
16. Estimate the percentage of your time devoted to scholarly and/or research activities: 10%.
Please give a brief description of your major research and scholarly activities:

Advising graduate students; mentoring undergraduate student research projects including senior projects and WEEA research apprenticeship.

17. If you are not a full-time faculty member, state what percentage of full-time you work: 100%. Percentage of this time allocated to the computer science program being evaluated: 100%.

1. Name, current academic rank, and tenure status

Dr. Gilbert Young
 Professor
 Tenured

2. Date of original appointment to this faculty, followed by dates and ranks of advancement

Associate Professor, Computer science Department, 2001
 Professor, Computer Science Department, 2005

3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Ph.D.	Computer Science	The University of Texas at Dallas	1989
M.S.	Computer Science	The University of Texas at Dallas	1986
B.S.	Computer Science	University of Oklahoma	1984

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

N/A

5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improve teaching and professional competence in computer science.

The 2008 Wireless Telecommunications Symposium, Cal Poly, April, 2008.
 The 2007 International Conference on Parallel and Distributed Processing Techniques and Applications, Nevada, June, 2007.
 The 2006 conference of Mathematical Foundations of Learning Theory, Paris, France, June 2006.
 The Eighth CSU Regional Symposium on University Teaching, Pomona, CA, April 2005.
 The 2005 International MultiConference in Computer Science & Computer Engineering.
 The 2005 Wireless Telecommunications Symposium, Cal Poly, April 2005.
 Nevada, June 2005.
 Lily West Conference on College & University Teaching, Cal Poly, March 2004.

The 2004 Wireless Telecommunications Symposium, Cal Poly, May 2004.
The 2004 International Conference on Parallel and Distributed Processing Techniques and Applications, Nevada, June 2004.
The 2003 International Conference on Parallel and Distributed Processing Techniques and Applications, Nevada, June 2003.
Certificate of Completion, Introduction to CMMI (Capability Maturity Model Integration), Staged Representation, V1.1, Carnegie Mellon Software Engineering Institute, June 2004.

6. Other related computing experience including teaching, industrial, governmental, etc. (Where, when, description and scope of duties)

2005–08 Professor, Department of Computer Science, Cal Poly Pomona.
2001–05 Associate Professor, Department of Computer Science, Cal Poly Pomona.

7. Consulting—list agencies and dates, and briefly describe each project.

8. Department, college and/or university committees of which you are a member.

Member, Department Curriculum Committee
Member, Department Laboratory Committee
Member, Department Scholarship Committee
Member, Department RTP Committee
Chair, Department Laboratory Committee
Chair, Department RTP Committee
Member, Faculty Representative of University Faculty Staff Affairs Committee

9. Principal publications during the last five years. Give in standard bibliographic format.

- F. Tang, R. Kerbs and G. Young, "Improving CS Student Retention with Intelligent Agents," Proceedings of the *AAAI Spring Symposium*, 2008, California.
- T. Lee and G. Young, 'Multipath Routing in Reconfigurable Free Space Optics Networks,' Proceedings of the 2007 International Conference on Parallel and Distributed Processing Techniques and Applications, pp. 817–821, June 2007, Nevada.
- G. Young, B. Cong and P. Ng, "Large Scale Linear and Mesh Network of PCs connected by SCSI," *Journal of Combinatorial Mathematics and Combinatorial Computing*, Vol. 56, 2006.
- K. Ho, J. Sum and G. Young, "Pricing Web Services," Lecture Notes in Computer Science 3947 (Proceedings of the 2006 International Conference on Grid and Pervasive Computing), Springer-Verlag, pp. 147–156, May 2006.
- J. Sum, K. Ho, C. Ng, C. Wong and G. Young, 'Analysis on the Session Life Time Distribution of Gnutella,' Proceedings of the 2005 International Conference on Parallel and Distributed Processing Techniques and Applications, Vol. III, Nevada, pp 1206–1211, June 2005.
- T. Lee and G. Young, 'Routing in Reconfigurable Free Space Optics Network,' Proceedings of the 2004 International Conference on Parallel and Distributed Processing Techniques and Applications, Nevada, pp. 946–952, June 2004.
- J. Sum, M. Li, C. Ng, T. Wong and G. Young, 'A study of the Connectedness of Gnutella,' Proceedings of the 2004 International Conference on Parallel and Distributed Processing Techniques and Applications, Nevada, pp. 960–966, June 2004.
- Book Chapter: G. Young, 'Chapter 37: Routing Real-Time Messages on Network,' in *Handbook of Scheduling: Algorithms, Models, and Performance Analysis*, J. Leung, ed., CRC Press, 42 pp., ISBN: 1584883979, 2004.
- C. Leung, J. Sum, H. Shen, J. Wu and G. Young, "Analysis and Design of an Agent Searching Algorithm for e-Marketplaces," *Cluster Computing*, Vol. 7, pp. 85–90, 2004.
- S. Lau, G. Young, W. Kan and Y. Wu, "On Open-ends Bin Packing Problem," *Journal of Combinatorial Mathematics and Combinatorial Computing*, Vol. 44, pp. 3–9, 2003.
- S. Lau, G. Young, W. Kan and Y. Wu, "On-Line Open-end Bin Packing," *Journal of Combinatorial Mathematics and Combinatorial Computing*, Vol. 44, pp. 129–144, 2003.
- J. Sum, H. Shen, G. Young, J. Wu, C. Leung, "Analysis on Extended Ant routing Algorithms for Network Routing and Management," *Journal of Supercomputing*, Volume 24, Issue 3, pp. 327–340, 2003.
- J. Sum, H. Shen, C. Leung and G. Young, "Analysis on a Mobile Agent Based Algorithm for Network Routing and Management," *IEEE Transactions on Parallel and Distributed Systems*, Volume 14, Issue 3, pp. 193–202, 2003.

10. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

NSF Grant EIA-0321333 (with Kuang, Jiang, Livesay, Park and Raheja), "Acquisition of a Network of Workstations for Research in Parallel and Distributed Computing," 8/2003–7/2005. (Awarded Amount: \$159,658.00).

Lottery Grant, "Computer Science Network Laboratory," 1/2003–12/2003. (Awarded Amount: \$42,300.00).

Quality Learning Fund, 2007–08.

President's Travel Fund, 2003–04, 2004–05, 2005–06, 2006–07, 2007–08.

Faculty Development Grant, 2003–04, 2005–06, 2006–07, 2007–08.

Early Career Faculty Learning Community Award, 2003–04.

Editorial Broad Members of the Journal of Supercomputing, Kluwer Academic Publishers.

Editorial Broad Members of the International Journal of High Performance Computing and Networking, Inderscience Publishers.

Served as a program committee member for several international conferences.

Served as a reviewer for several journals.

Served as a reviewer for several international conferences.

Lectured at CSU Fullerton, California Lutheran University and National Chung Hsing University of Taiwan.

New course developed: CS 599 Scheduling Algorithms, 2004.

Sabbatical, Spring 2006.

11. Scientific, professional and honor societies of which you are a member.

Member, Association for Computing Machinery (ACM).

Senior Member, Institute of Electrical and Electronic Engineers (IEEE) Computer Society.

Member, Upsilon Pi Epsilon honor society (UPE).

12. Honors and awards.

Achievement Award, presented by World Academy of Science (WAS), in recognition of "Research Contributions to the Field of Parallel and Distributed Computing and to the 2003 International MultiConference in Science and Computer Engineering," Las Vegas, June 2003.

13. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.

Term/Year	Dept Course	Course Title	Quarter hours	Class size
Fall 2006	CS 370	Parallel Processing	4	27
Fall 2006	CS 380	Computer Networks	4	36
Fall 2006	CS 463	Undergraduate Seminar	2	13
Spring 2007	CS 130	Discrete Structures	4	23
Spring 2007	CS 140	Introduction to Computer Science	4	28
Spring 2007	CS 463	Undergraduate Seminar	2	15
Spring 2007	CS 463	Undergraduate Seminar	2	15
Summer 2007	CS 210	Computer Logic	4	11
Summer 2007	CS 380	Computer Networks	4	31
Summer 2007	CS 431	Operating Systems	4	15
Fall 2007	CS 380	Computer Networks	4	18
Fall 2007	CS 530	Advanced Algorithm Design and Analysis	4	16
Spring 2008	CS 140	Introduction to Computer Science	4	35
Spring 2008	CS 331	Design and Analysis of Algorithms	4	32
Spring 2008	CS 380	Computer Networks	4	35

14. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.

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15. Number of students for which you serve as academic advisor: 55

16. Estimate the percentage of your time devoted to scholarly and/or research activities: 25%. Please give a brief description of your major research and scholarly activities:

Conduct research and scholarly activities in the following areas: parallel and distributed systems, computer networks, internet computing and scheduling.

17. If you are not a full-time faculty member, state what percentage of full-time you work: 100%. Percentage of this time allocated to the computer science program being evaluated: 100%.