

JONGWOOK WOO

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<http://www.calstatela.edu/faculty/jwoo5>

Research Interests

- **e-Business**
 - Cloud Computing
 - N-tier Architecture (Client/Server with Middleware and Data Base)
 - Search Engine; Information Retrieval and Integration
 - Web Service
 - TGI of Spirit IP-XACT for Design Automation
 - Integrate Information Systems and Enterprise Information Systems
 - Web Application/Development
 - WAP Application (Mobile computing)
 - Data Mining
 - Component Model
 - Load-Balancing and Fault-Tolerant Computing
 - Security, DRM (Data Rights Management)
 - BPM (Business Project Management) and its tool
- **Parallel and Distributed Computing**
 - Static Analysis in Java/Object-Oriented Language for Parallel/Distributed Computing
 - Parallel Algorithm and High-Performance Computing in Image Detection, 2D/3D Graphics Application, Collaborative Work
 - Parallel/Distributed Computing in Java (J2EE) /Object-Oriented Language
 - Cluster Computing
- **Network Communications**
 - Load Sharing on BGP Mechanism of Multihoming in IPv6
- **Programming Language (Java, C++, {C#, J#, Visual Basic} .NET, Visual Basic 6, XML (VoiceXML, WML), ruby (1.8.7 and 1.9)/rails (2.3.5)**
- **Computation of Solvent Surface Accessibility in Bioinformatics**

Affiliations

- **Director of HiPIC (High-Performance Internet Computing Center) at CSULA (Sept 2002 - Present)**
 - <http://www.calstatela.edu/centers/hipic/>
- **External Collaborator of IMSC (Integrated Media Systems Center) at USC (Aug 2010 - Present)**
 - <http://imsc.usc.edu/>
- **Executive Director for n-Tier architecture and Bioinformatics, Hemosoo Inc. (June 2004 – Present)**
- **Executive Director for n-Tier architecture and Graphics, SoftZen Inc. (March 2002 – Present)**
 - <http://www.softzen.co.kr>
- **Technical Advisor for security and DRM, Core Trust Inc. (March 2002 – Present)**
 - <http://www.coretrust.com>
- **Technical Advisor Committee for KOSEN (The Global Network of Korean Scientists and Engineers) (Aug 2004 – Present)**
 - <http://www.kosen21.org/>
- **Author of The Technical News Brief, Korea Institute of Science and Technology Information (May 2002 – Dec 2003)**
 - <http://www.kisti.re.kr/>

Experience

- **Associate Professor (Tenured), Computer Information Systems Dept., School of Business, California State University, Los Angeles, USA (Sept. 2009 - present), course web site (<http://instructional1.calstatela.edu/jwoo5/classes>)**
 - **Spring 2010**
 - CIS590 IS Strategie
 - CIS100L s2, 3, 6, 7 Business Computer Systems
 - **Winter 2010**
 - CIS586 Project Management
 - CIS486 Project Management
 - CIS100L s 4, 5, 6, 7 Business Computer Systems
 - **Fall 2009**
 - CIS100L s2, 3, 4, 5, 6, 7 Business Computer Systems
- **Assistant Professor, Computer Information Systems Dept., School of Business, California State University, Los Angeles, USA (Sept. 2003 – Aug 2009), course web site**
 - **Spring 2009**
 - CIS590 IS Strategie
 - CIS100L s2, 3, 6, 7 Business Computer Systems
 - **Winter 2009**
 - CIS586 Project Management

- CIS486 Project Management
- CIS100L s 4, 5, 6, 7 Business Computer Systems
- **Fall 2008**
 - CIS100L s2, 3, 4, 5, 6, 7 Business Computer Systems
- **Spring 2008**
 - CIS590 IS Strategie
 - CIS100L s3, 4, 5, 6 Business Computer Systems
- **Winter 2008**
 - CIS586 Project Management
 - CIS486 Project Management
 - CIS100L s4, 5, 6, 7 Business Computer Systems
- **Fall 2007**
 - CIS561 e-Commerce Site design
 - CIS100L s3, 4, 5, 6 Business Computer Systems
- **Spring 2007**
 - CIS455 VB .NET DB Application
 - CIS585 Communication and Information Services
 - CIS100L s 4, 5 Business Computer Systems
- **Winter 2007**
 - CIS284 Introduction to Application Programming (Java)
 - CIS586 Information Systems and Change Management
- **Fall 2006**
 - CIS445 Advance VB .NET Programming
 - CIS561 e-Commerce Site design
 - CIS100L Business Computer Systems
- **Spring 2006**
 - CIS445 Advance VB .NET Programming
 - CIS100L Business Computer Systems
- **Winter 2006**
 - CIS445 Advance VB .NET Programming
 - CIS283 Introduction to Application Programming (Java)
 - CIS560 Microcomputer Networking
- **Fall 2005**
 - CIS445 Advance VB .NET Programming
 - CIS284 Introduction to Application Programming (VB .NET)
 - CIS561 e-Commerce Site design
- **Spring 2005**
 - CIS445 Advance VB .NET Programming
 - CIS100 Business Computer Systems
- **Winter 2005**
 - CIS445 Advance VB .NET Programming
 - CIS457 Advance Java Programming
 - CIS100 Business Computer Systems Lab.
- **Fall 2004**
 - CIS445 Advance VB .NET Programming
 - CIS457 Advance Java Programming
- **Spring 2004**
 - CIS283 Introduction to Application Programming (Java)

- CIS457 Advance Java Programming
 - **Winter 2004**
 - CIS283 Introduction to Application Programming (Java)
 - CIS561 e-Commerce Site design
 - **Fall 2003**
 - CIS510 Information Systems Project Management
 - CIS486 Information Systems Architecture
 - CIS457 Advanced Java Programming
- **Consultant (Sept. 2001 - present), e-Business and dynamic web in J2EE and .NET**
 - **E2G2 (Oct 2009 – Present): Search Engine and Data Retrieval, Integration, Feed Application for local city life information**
 - Ruby (1.8.7, 1.9) on Rails (2.3.5), ThinkingSphinx, EngineYard Cloud Computing, git, Netbeans 6.5, Tomcat 5.5, J2EE, XML, Eclipse 3.3, Spring framework, Velocity, Struts, ANT, FAST/Solr/Lucene, FatWire, FatWire, Oracle, MSSQL, MySQL 5.x, MapQuest/Google Geo API
 - **City Search (July 2007 – Dec 2008): Search Engine and Data Retrieval, Integration, Feed Application for City Life Information**
 - Tomcat 5.5, J2EE, XML, Eclipse 3.3, Spring framework, Velocity, Struts, ANT, FAST/Solr/Lucene, FatWire, Oracle, MSSQL, MySQL, MapQuest/Google Geo API
 - **ARM (Jan 2007 – July 2007): Web Service Application on TGI of Spirit IP-XACT for Automatic Design Tool**
 - AXIS Web Service Server, Tomcat 5.5, Eclipse 3.2, JBoss-4.0.3sp1, C++ (VC++, GNU C++), Boost Lib, SystemC, J2EE
 - **E! (E Network) (Jan 2006 – Oct 2006): E! Online in Communiqué 4.0 of Day Software**
 - Content Management Systems (CMS), JSR-170, CRX, Content Repository, Tomcat 5.5, Eclipse 3.2, Hibernate 3.0, JBoss-4.0.3sp1, Oracle, Sybase, Lucene 1.9
 - **Warner Bros (WB) Online (Aug 2004 – June 2005): [Matrix online game](#)**
 - Websphere (4.5, 5), Websphere Studio (4.5, 5), Tomcat 5.5, Eclipse 3.2, Hibernate 3.0, Strut, JBoss-4.0.3sp1, Oracle, MySQL
- **Full Time Lecturer, Computer Information Systems Dept., School of Business, California State University, Los Angeles, USA (Sept. 2002 – Sept 2003)**
 - **Spring 2003 (<http://instructional1.calstatela.edu/jwoo5/classes>)**
 - CIS283 Introduction to Application Programming (C++)
 - CIS454 Server Site Web Development for E-Business in J2EE and .NET
 - **Winter 2003 (<http://ceng.usc.edu/~jowoo/classes>)**
 - CIS283 Introduction to Application Programming (C++)
 - CIS461 Web Development I
 - CIS405A Analysis and Logical Design (Database)
 - **Fall 2002 (<http://ceng.usc.edu/~jowoo/classes>)**
 - CIS455 Visual Basic Programming

- **Research Professor, Yonsei University, Seoul, Korea (March 2002 – Sept. 2002)**
 - Investigating Load-Sharing and Redundancy for BGP mechanism in IPv6 for multihoming architecture
 - Investigating E-Business applications in Clustering Computing on N-Tier Architecture with J2EE and WAP (WML, XML)
 - Load-Balancing Algorithm for dynamic loads on N-Tier Architecture
 - **Committee** of KTCGF (Korea Technology Credit Guarantee Fund)
 - Consulting several companies by designing and developing N-tier E-Business/M-Commerce applications with UML, J2EE (Servlet, JSP, JavaBeans, EJB), XML, WML, html, JavaScript, ActiveX, and JDBC on *Jrun3.0*, *Jboss/Tomcat*, *Oracle8i* and *MySQL*.
 - <http://photo.nate.com>
 - <http://www.kise.go.kr>

- **Sr. Software Engineer, Gamma Computer, Woodland Hills, CA (June 2000 – March 2001)**
 - Designing and developing N-tier E-Business applications with UML, J2EE (Servlet, JSP, JavaBeans, EJB), html, JavaScript, and JDBC on *WebLogic 5.1* Web Application Server
 - Administrating and performance tuning *WebLogic* server, Nokia WAP server and Developing WML, *MSSQL* and *CloudScape* DB scheme
 - Tuning and Measuring performance of Web application on JVM and Posix performance pack with *JMeter* and *Load-Runner*

- **Sr. Software Engineer, Magnet Interactive, Culver City, CA (February 2000 – June 2000)**
 - Developing Java middle-ware web application project with J2EE (Servlet, JSP, JavaBeans, EJB), html, JavaScript, and JDBC on *Websphere* and *JRUN* Web Application Server, *Oracle8i* and *VisualAge for Java* enterprise edition for multi-tier e-business.
 - Designing shopping system in UML with Rational Rose 2000

- **Web Developer, SBCL, Pasadena, CA (September 1999 – February 2000)**
 - Developing E-Business project with J2EE (Servlet, JSP, JavaBeans, EJB), html/jhtml, JavaScript, and JDBC on *ATG Dynamo* Web Application Server, *Oracle8i*, and *Symantec Visual Café* DB.

- **R&D Assistant, BethelSoft Inc., Buena Park, CA (June 1999 - September 1999)**
 - Developing E-Business project for server site applications with J2EE (Servlet, JSP, JavaBeans, EJB), html, JavaScript, and JDBC on *Websphere* Application Server, *Oracle8i* and *VisualAge for Java* enterprise edition
 - R&D assistant to find a solution of E-Business

- **Web Master, PDPC group, University of Southern California, LA, CA (August 1998 – April 2001)**

- **2D/3D Graphics Programmer, Behavior Technology Lab., University of Southern California, Redondo Beach, CA (January 1998 – November 1998)**
 - Developing 2D/3D graphics learning application with JavaCC and Java 2D/3D API for distributed computing through Internet. Sponsored by Air force, Naval research, JPL/NASA.

- **Teaching Assistant, *University of Southern California, LA, CA* (September 1998 – June 1999)**
 - Digital Logic Circuit and Design
- **Research Assistant, *University of Southern California, LA, CA* (January 1997 – June 1999)**
 - Investigating static analysis, especially alias analysis in Java for parallel/distributed computing. Sponsored by NSF.
- **R&D Intern, *Skunk Technology, Santa Monica, CA* (May 1997 – September 1997)**
 - Researching fault-tolerant computing and load balancing for distributed computing on web based Internet application
- **Research Assistant, *University of Southern California, LA, CA* (August 1995 – December 1996)**
 - Load-balancing and Implementing parallel/distributed computing of image detection system. Sponsored by NSF and DARPA.
- **Grader, *University of Southern California, LA, CA* (January 1995 – December 1995)**
 - For the course, Advanced Artificial Intelligence.
- **Lieutenant, *Korean Army* (November 1991 – May 1992)**
- **Research/Teaching Assistant, *Yonsei University, Seoul, Korea* (March 1990 – October 1991, June 1992 – July 1993)**
 - Analyzing the queuing mechanism, the routing, and flow control of ATM switching. Sponsored by Korean Research Development Institute (KRDI)
 - Teaching Assistant for Network and Circuit System

Education

- ***PhD in Computer Engineering (August 2001), Department of Electrical Engineering, Univ. of Southern California.***
- ***MS in Computer Science (December 1998), Department of Computer Science, Univ. of Southern California.***
- ***MS in Electronic Engineering (August 1991), Department of Electronic Engineering, Yonsei University (Seoul, Korea).***
- ***BS in Electronic Engineering (February 1989), Department of Electronic Engineering, Yonsei University (Seoul, Korea).***

Certification and Education

- ***Certificate of Participation for a seminar “Spatial Inquiry Using Web-Mapping Tools” (April 30 2009)***

- ***Content Server Core Developer of Fatwire Education Service Training (Jan 11 2008)***
- ***Rational Software Architect Workshop (Sept 2006)***
- ***Bea WebLogic server Application Development Educational Service (July 2000)***
- ***Bea WebLogic server Administration Educational Service (July 2000)***
- ***Sun Certified Java Programmer for JDK-1.1 (July 1999)***

SKILLS

- ***Computer language:*** JAVA (applet, servlet, jsp, JavaBean, EJB, RMI, socket, JDK-{1.3, 1.4, 1.5, 2D/3D graphics, JAI, JDBC, JINI, JNI, security, JSR-170, Spring Framework, Struts etc.}, JavaCC (Java Compiler Compiler), JavaScript, Ruby (1.8.7), Rails 2.3.5, LISP, SQL, HTML, XML (WML, VoiceXML), C/C++ (MPI, socket, OpenGL, .NET etc.), VRML, tcl/tk, Motif, SISAL, UML, Visual Basic 6.0, Visual Basic 6 and .NET, Perl.
- ***Hardware:*** RS6000, Sun, HP, Silicon Graphics, IBM-PC, 80x86, SP2, T3D, AS/400, Alpha Tru64
- ***Operating System:*** UNIX, Linux, window95/98/NT2000/XP/7, MS-DOS, Qshell, OSX
- ***DBMS:*** Oracle8i/9i/10i, DB2, MSSQL, MySql 5.x
- ***Other Knowledge:*** Netbeans 6.5, Search Engine (Lucene, Solr, FAST, ThinkingSphinx), Symantec (WebGain) Visual Café DB 3.c and Enterprise Edition, IBM VisualAge for Java enterprise edition 3.0, IBM Websphere enterprise 3.0, NetObject Fusion, Lotus Notes, ATG Dynamo WAS 4.5/5.x, Rational Rose 2000, IBM San Fransisco, NOKIA WAP server 1.1.1, WebLogic 5.1, Apache and TomCat server, Apache Jmeter-1.5.1, Forte, Jboss, Mercury Interactive Load-Runner, tcsh/bash/csh/ksh, Corba, VisiBorker, SSFNet, CMS (Day Communiqué server, Fatwire)

COMMITTEE AT CSULA

- (1) Academic Advisement Subcommittee (Winter 2008 – Spring 2010);
University Committee
- (2) Steering Committee at the Center for Korean American and Korean
Studies (2009-2011); **University Committee?**
- (3) Steering Committee at IS: Looking for the policy to improve hiring
graduate students at IS (Jan 2010 – May 2010); IS Committee
- (4) Have been academic advisement supervisor for graduate student EzerCampos
and Donald Hodges in Spring 2008 and Radadia, Archana Ghanshyambhai,
Chris Park, Vaidhya Raman, Jai Krishna Ponnappan, Nick Satchanawit, Sheung
Chi Yuen for CIS 598 Graduate Direct Study class since Fall 2007
A) We have studied search engine for documents including web documents
- (5) Undergraduate Studies Committee: IS representative to College of
Business and Economics (Fall 2007 – Summer 2008); College
Committee

- (6) Alternate for Student Affairs Committee: IS representative to College of Business and Economics (Fall 2007 – Summer 2008); College Committee
- (7) Alternate for Honors Convocation and Commencement Committee: College of Business and Economics representative to CSULA (Fall 2007 – Summer 2009); University Committee
- (8) Curriculum Committee for IS department **since** Oct 2006
 - A) Achieved course renaming and new course proposed after several meetings that take several hours on Winter 2007.
- (9) Proctor for MBA Comp Examination on Oct 20 2006
- (10) Ad hoc Curriculum Committee for IS department **since** Oct 2006
- (11) Alternate Committee for IS department (Fall 2006-Spr 2007):
- (12) Information Security Committee for IS department **since** Oct 2006
- (13) Assessment Ad hoc Committee of the college for IS department **since** Nov 2005 to Feb 2006
- (14) Student Affairs Committee of the college for IS department since Fall 2005 to Spring 2007
- (15) CIS Strategy Committee **since** Fall 2005
- (16) Web Master at CIS department for National Security Telecommunications and Information Systems Security **since** 2004
- (17) Committee at CIS department for National Security Telecommunications and Information Systems Security **since** 2004 to 2006
 - A) the department *certified* (06/2006-06/2009) for Information System Security Professionals (NSTISSI no. 4011) and Senior System Managers (CNSSI no. 4012) by CNSS (Committee on National Security Systems and the National Security Agency)
- (18) Alternate for External Awards Nominating Committee for College of Business & Economics, **since** 2004
- (19) Fiscal Policy Committee for College of Business & Economics, **since** 2004 to Spring 2007
- (20) Student Affairs Committee at IS department **since** 2004
 - A) Chair **since** Fall 2005
- (21) Marshall of 2007 (June 8th Hooder of Grad), 2004, 2003 under/graduate commencement
- (22) Marshall of 49th, 48th, 47th, 45th, 44th Honors Convocation (04/24/2010, 04/24/2009, 04/18/2008, 04/21/2006, 04/22/2005)

MEMBERSHIP

- (1) ACM since 2002
- (2) IEEE since 2002
- (3) KSEA (Korean-American Scientists and Engineers Association) since 2005
- (4) KSEA-SC (Korean-American Scientists and Engineers Association Southern California Chapter) since 2005
- (5) KOCSEA (The Korean Computer Scientists and Engineers Association in America) since 2006
- (6) IAENG (the International Association of Engineers) since 2007

COMMITTEE

- (1) KSEA-SC (Korean American Scientist and Engineer Association Sothern CA)
 - a. [President](#) of KSEA-SC, June 2010 – June 2011
 - b. [President Elect](#) of KSEA-SC, June 2009 – June 2010
 - c. [Conference Chair](#) of The 20th Annual KSEA South-Western Regional Technology Conference (KSEA-SW'10, Norwalk, CA, USA)
 - d. [Mentor and Speaker](#) of The KSEA-SC Mentoring Workshop (May 15 2010, Los Angeles, CA)
 - e. Event Committee of National Math and Science Competition 2010 (April 24 2010, UC Irvine, CA)
 - f. Chair of the CSIT Session at The 19th, 18th, 17th Annual KSEA South-Western Regional Technology Conference (KSEA-SW'09, KSEA-SW'08, KSEA-SW'07: Feb 7, 2009, Irvine, CA, USA)
- (2) KSEA (Korean American Scientist and Engineer Association)
 - a. [Chair of Chapter Presidents](#) of KSEA, June 2010 – June 2011
 - b. IT/Publicity Committee of the US-Korea Conference on Science, Technology, and Entrepreneurship (UKC 2010), Aug 11-15 2010, Seattle, WA
- (3) A member of editorial board of MASAUM Journal of Basic and Applied Sciences ([MJBAS](#)) since July 2009
- (4) Editorial Reviewer at Editorial Review Board of Scientific Journals International (SJI) [since](#) July 2007, <http://www.scientificjournals.org>
- (5) Advisory/Editorial Board at International Journal of Bio-Science and Bio-Technology since 2008, <http://www.sersc.org/journals/IJBSBT/>
- (6) Program Committee of The First International Conference on Advances in P2P Systems ([AP2PS 2009](#), October 11-16, 2009 - Sliema, Malta)
- (7) Technical Committee / Member of Organizing International Workshop on E-Systems ([IWES '09](#)) in conjunction with The First International Conference on 'Networked Digital Technologies' (Sponsored by IEEE), July 28-31 , 2009, Ostrava, The Czech Republic
- (8) [Chair](#) of the Session 6 (Governance and Related Issues) at the 2008 International Conference on e-Learning, e-Business, Enterprise Information Systems, e-Government, and Outsourcing (EEE'08: July 17, 2008, Las Vegas, Nevada, USA)
- (9) Program Committee of the 2008 International Conference on Bio-Science and Bio-Technology ([BSBT 2008](#)) (December 13 ~ 15, 2008, Hainan Island, China)
- (10) KOCSEA (Korean Computer Scientists and Engineering in America)
 - a. Scholarship [Chair](#) of the 2010 [KOCSEA](#)
 - b. Local Arrangement [Chair](#) of the 2009 [KOCSEA](#)
 - c. Public Relations Chair of the 2008, 2007 [KOCSEA](#)
- (11) Program Committee of the 2010, 2009, 2008, 2007, 2006 International Conference on e-Business, (ICE-B'09, ICE-B'08, ICE-B'07, ICE-B'06, July 7-10 2009, in Milan, Italy)
- (12) Program Committee of the 2010, 2008, 2007, 2006, 2005, 2004 International Conference on Parallel and Distributed Processing Techniques and

- Applications, (PDPTA'08, PDPTA'07, PDPTA'06, PDPTA'05, PDPTA'04: July 14-17, 2008, Las Vegas, Nevada, USA)
- (13) Program Committee of the 2010, 2008, 2007, 2006, 2005, 2004 International Conference on Internet Computing, (ICOMP'08, ICOMP'07, ICOMP'06, ICOMP'05, IC'04: July 14-17, 2008, Las Vegas, Nevada, USA)
- (14) Program Committee of the 2010, 2008, 2007, 2006 International Conference on Semantic Web & Web Services (SWWS'08, SWWS'07, SWWS'06: July 14-17, 2008, Las Vegas, Nevada, USA)
- (15) Program Committee of the 2005, 2004 International Symposium on Web Services and Applications (ISWS'05, ISWS'04, Las Vegas, Nevada, USA)
- (16) Program Committee of the 2010, 2008, 2007, 2006 International Conference on Bioinformatics & Computational Biology (BIOCOMP'08, BIOCOMP'07, BIOCOMP'06: July 14-17, 2008, Las Vegas, Nevada, USA)
- (17) Program Committee of the 2005, 2004 International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences (METMBS'05, METMBS'04: June 21-24, 2004, Las Vegas, Nevada, USA)
- (18) Program Committee of the 2010, 2008, 2007, 2006 International Conference on Grid Computing and Applications (GCA'08, GCA'07, GCA'06: July 14-17, 2008, Las Vegas, Nevada, USA)
- (19) Program Committee of the 2010, 2008, 2007, 2006 International Conference on e-Learning, e-Business, Enterprise Information Systems, e-Government, and Outsourcing (EEE'08, EEE'07, EEE'06: July 14-17, 2008, Las Vegas, Nevada, USA)
- (20) Program Committee of the 2006 International Conference on Real-Time Computing Systems & Applications (RTCOMP'06: June 26-29, 2006, Las Vegas, Nevada, USA)
- (21) [Chair](#) of the Session 3 at the 2006 International Conference on e-Learning, e-Business, Enterprise Information Systems, e-Government, and Outsourcing (EEE'06: June 28, 2006, Las Vegas, Nevada, USA)
- (22) Sponsor Relations Chair of the 2007 Career Fair/Mentor Program, KSEA-SC (Korean Science Engineering Association Southern California Regional)
- (23) [Internship Mentor](#) of the 2007 [SoCalBSI](#) (Southern California Bioinformatics Summer Institute)
- (24) [Chair](#) of the Session 5 at the 2007 International Conference on e-Learning, e-Business, Enterprise Information Systems, e-Government, and Outsourcing (EEE'07: June 28, 2007, Las Vegas, Nevada, USA)
- (25) Program Committee of the 2007 International MultiMedia Modeling Conference ([MMM'07](#): Jan 9-12, 2007, Singapore)
- (26) Program Committee of the Next Generation Residential Broadband Challenges workshop ([NGRBC'04](#) in 12th ACM International Conference on Multimedia October 10-15, 2004, New York, NY, USA)
- (27) Program Committee of 2004, IⁿSITE ([Informing Science + IT Education](#)), International Joint Conference, Rockhampton, QLD Australia, June 25-28, 2004

INVITED TALK

- (1) “Server Site Web Development for E-Business in Java and .NET”, SookMyung Women’s University, Seoul, Korea, Aug 23 2003

COURSE PROPOSED

- (1) Bioinformatics for Computer-Major, Grant proposal for Honda Foundation (April 2007)
- (2) e-Business Development in J2EE, Non-Credit Course for the Extended Education at California State University (April 2005)
- (3) e-Business Development in Advanced J2EE, Non-Credit Course for the Extended Education at California State University (April 2005)
- (4) CIS454 Information Security Management at California State University (11/24/2004)
- (5) CIS 488 Internet Security at California State University

BOOK REVIEWS

- (1) “The Visual Basic .NET Coach”, Jeff Salvage, 2e, Addison-Wesley, c. 2007 reviewed on Sept 2005
- (2) “Principles of Web Development”, J. D. Chase and Jack Davis, Addison-Wesley, May 2005
- (3) “Introduction To Object Oriented Analysis and Design with UML and the Unified Process”, Stephen R. Schach, McGraw-Hill, 2004
- (4) “Web Technologies: A Computer Science Perspective”, Textbook proposal by Jeff Jackson, Addison Wesley, 2004
- (5) “Programming the World Wide Web”, Robert Sebesta, 3rd Edition Draft, Addison Wesley, 2004

PAPER REVIEWS

- (1) 2010 Journal of Information Processing Systems(JIPS)
- (2) 2010 Sensors (ISSN 1424-8220) Journal
- (3) 2008 International Conference on Bio-Science and Bio-Technology ([BSBT’08](#): Dec 13-15, 2008, Hainan Island, China)
- (4) 2007 Future Generation Communication and Networking ([FGCN’07](#): Dec 6-8, 2007, Jeju-Island, Korea)
- (5) Journal of Super Computing, 2007 since 2004
- (6) 2010, 2008, 2007, 2006 International Conference on e-Business (ICE-B’10, ICE-B’08, ICE-B’07, ICE-B’06, July 26-29 2008, in Porto, Portugal)
- (7) 2007 International MultiMedia Modeling Conference ([MMM’07](#): Jan 9-12, 2007, Singapore)
- (8) The International Journal of Grid Computing: Theory, Methods and Applications at Future Generation Computer Systems, April 2006, Elsevier Editorial System
- (9) Cultural Perspectives in Marketing Conference 2006 – The dynamic Nature of Cultural Perspectives in Marketing, Seoul, Korea, July 12-15, 2006
- (10) Mountain Plains Conference 2005 at Southern Utah University Oct 2005,

- (11) PCS 2004 (Parallel Computing Systems), Mexico, Sept 20-24, 2004
- (12) JECR (Journal of Electronic Commerce Research) **since** 2003
- (13) 2004, IstSITE (Informing Science + IT Education) International Joint Conference, Rockhampton, Australia, June 25-28, 2004
- (14) Journal of Communications and Networks, **since** 2003
- (15) SBAC-PAD 2003 (The 15th Symposium on Computer Architecture and High Performance Computing), Brazil 2003
- (16) PACT'2004, PACT'1998 (Parallel Architecture and Compilation Techniques), France, September 29 - October 3, 2004
- (17) 2007, 2006, 2004 International Conference on Internet Computing, (IC'07: June 25-28, 2007, Las Vegas, Nevada, USA)
- (18) SBAC-PAD 2003 (The 15th Symposium on Computer Architecture and High Performance Computing), Brazil 2003

BRIEF PAPER FOR KISTI (Korea Institute of Science and Technology Information), SEOUL, KOREA

- (1) Jongwook Woo, "Integrated Information Systems", Chungbuk Techno Park, The Technical News Brief, Jan 2007
- (2) Jongwook Woo, "The Introduction of Digital Rights Management", KISTI The Technical News Brief, Aug 2003
- (3) Jongwook Woo, "The .NET and Web Service", KISTI The Technical News Brief, Aug 2003
- (4) Jongwook Woo, "The J2EE and Web Service", KISTI The Technical News Brief, Aug 2003
- (5) Jongwook Woo, "The Introduction of Web Service", KISTI The Technical News Brief, Aug 2003
- (6) Jongwook Woo, "J2EE Application Server", KISTI The Technical News Brief, May 2003
- (7) Jongwook Woo, "The Comparison of J2EE and .NET", KISTI The Technical News Brief, May 2003
- (8) Jongwook Woo, "The .NET Introduction", KISTI The Technical News Brief, May 2003
- (9) Jongwook Woo, "The Middleware Component Model: EJB, COM, Corba", KISTI The Technical News Brief, June 2002

GRANTS

- (1) **Submitted** (Aug 14 2008) NSF proposal titled "Creation of the Cysteine Oxidation Prediction Program" amount \$771,252 (\$257,084 x 3 yrs) for solicitation no: NSF 08-563
- (2) **Submitted** (Feb 26 2008) MOU proposal titled "The Proposal for the Development of u-Space - using Service Oriented Architecture and Data Oriented Architecture Integrated Platform and Integrated Data Service" To the Korea Ubiquitous Association (**KUA**) for 2008-2009

- (3) **Submitted** (April 30 2007) grant proposal titled “Bioinformatics for Computer Majors” with the requested amount \$94,350 To **American Honda Foundation** for 2007-2008
- (4) **Submitted** (Oct 30 2006) grant proposal: Research Stipends from The Center For The Business Government of IBM for 2006-2007
- (5) \$4,012 Grant Seed Program Award from CSULA; for 2006-2007
- (6) \$1,940 Grant Seed Program Award from CSULA; 2006
- (7) \$3,880 Grant Seed Program Award from CSULA; 2005
- (8) Project ID: 2-30058, \$31,533 external Grant from Warner Brothers; “Multimedia Dynamic Web Development for e-Business”, Aug-Dec 2004
- (9) Submit an external Grant proposal “Hydrogen Peroxide Signaling” to NIH (National Institutes of Health) as a Co-Investigator for years 2005-2009 \$1.2M, See the attached Grant Proposal
- (10) \$3,880 Grant Seed Program Award from CSULA; 2003

PATENTS

- (1) (Submitted June 25 2009) MinSeok Jang, Younsik Lee, **Jongwook Woo**, and Hyunjin Bang, “Customer Oriented Information Management Systems with RFID in Gas Station”, No: 10-2009-0056790 in [Korean Intellectual Property Office](#), June 25 2009

PUBLICATIONS

Journal Papers

- (1) **Jongwook Woo** and MinSeok Jang, “[The Comparison of WML, cHTML, and XHTML-MP in m-Commerce](#)”, in [Journal of Software](#), Oct 2008, Volume 3, Issue 7, pp. 22-29, ISSN 1796-217X, [Academy Publisher](#)
- (2) Ricardo Sanchez, Megan Riddle, **Jongwook Woo** and Jamil Momand, “Prediction of reversibly oxidized protein cysteine thiols using the C4.5/J48 classifier and protein structure properties”, in [Protein Science, the Journal](#), March 2008, Volume 17, Issue 3, pp. 473-481, ISSN 0961-8368, [Cold Spring Harbor Laboratory Press](#)
 - a. **Protein Science** belongs to [SCIE \(SCIENCE CITATION INDEX EXPANDED\)](#) that is the SCI expansion, which is the famous science journal index.
- (3) “Wireless Financial Transaction Reporting System in m-Commerce”, Jongwook Woo, Issues in Information Systems (IIS), [Volume VIII](#), No. 2, 2007, pp. 103-106, ISSN 1529-7314
 - b. **IIS** has been listed in Cabell's Directory of Publishing Opportunities in Management and Marketing since the 8th Edition.
- (4) Jongwook Woo, “The Comparison of J2EE and .NET for Enterprise Information Systems”, For S/W reviews in Journal of Scalable Computing: Practices and Experience (SCPE), June 2007, pp131-140, [Volume 8, No1](#), ISSN 1895-1767, Szkoła Wyższa Psychologii Społecznej (SWPS)
- (5) “[Traversal Pattern Mining in Web Environment](#)”, MinSeok Jang, Weon-Goo Kim, Yon-Sik Lee, Jongwook Woo, *Lecture Notes in Computer Science (LNCS)*,


Dec 2005, Vol 3828/2005, pp. 801-805, ISSN 0302-9743, Berlin, Springer-Verlag.

- c. LNCS belongs to [SCIE \(SCIENCE CITATION INDEX EXPANDED\)](#) that is published by SPRINGER-VERLAG BERLIN and that is the SCI expansion, which is the famous science journal index.
- (6) Jongwook Woo, Jean-Luc Gaudiot, Andrew L Wendelborn, “[Alias Analysis in Java with Reference-Set Representation for High-Performance Computing](#)”, in *International Journal of Parallel Programming, IJPP*, February 2004, pp39-76, Volume 32, No1, ISSN 0885-7458, USA, Kluwer Academic Publishers
 - d. **IJPP** belongs to [SCIE \(SCIENCE CITATION INDEX EXPANDED\)](#) that is published by SPRINGER-VERLAG BERLIN and that is the SCI expansion, which is the famous science journal index.
- (7) Jongwook Woo, “Static Analysis for Java with Alias Representation Reference-Set in High-Performance Computing”, *Journal of Scalable Computing: Practices and Experience (SCPE)*, March 2003 (Published March 2005), pp131-145, [Volume 6, No1](#), ISSN 1895-1767, Szkoła Wyższa Psychologii Społecznej (SWPS)
 - e. Was Journal of Parallel and Distributed Computing Practices ([PDCP](#)), [Volume 6, No1](#)

Proceedings, Conference, and Theses

- (1) “Project and Asset Management System for Multi-Disciplinary Scientific Visualization Projects”, Kanokwan Chansamorn, Milan Mijic, Tony Longson, **Jongwook Woo**, Eun-Young Elaine Kang, The 2010 international Conference on Internet Computing (ICOMP 2010), Las Vegas (July 12-15, 2010)
- (2) “Introduction to Cloud Computing”, Jongwook Woo, the 10th KOCSEA (Korean Computer Scientists and Engineers Association in America) Technical Symposium, Las Vegas (Dec 18-19, 2009)
- (3) “Comparing Open Source Web Services: gSoap and AXIS”, **Jongwook Woo**, Wonwoo Ro, The 24th International Technical Conference on Circuit/Systems, Computers and Communications ([ITC-CSCC 2009](#)), Jeju Island, Korea (July 5-8, 2009)
- (4) “Information Integration Model in e-Business”, **Jongwook Woo**, Dong-Yon Kim, Wonhong Cho, MinSeok Jang, The 2009 international Conference on e-Learning, e-Business, Enterprise Information Systems, e-Government, and Outsourcing, Las Vegas (July 13-16, 2009)
- (5) “e-Business Architecture with CMS and Search Engine”, Jongwook Woo, The 2009 19th Annual KSEA South-Western Regional technology Conference (KSEA-SW 2009), Irvine, CA (Feb 7, 2009)
- (6) “e-Business Architecture with Search Engine”, Jongwook Woo, the 9th KOCSEA (Korean Computer Scientists and Engineers Association in America) Technical Symposium, VA (Oct 25-26, 2008)
- (7) “The High Price of High Technology”, Donald B. Hodges and **Jongwook Woo**, The 2008 international Conference on Frontiers in Education: Computer Science and Computer Engineering, Las Vegas (July 14-16, 2008)

- (8) “e-Business Architecture with Search Engine”, Jongwook Woo, The 2008 US-Korea Conference on Science, Technology, and Entrepreneurship (UKC-2008), Information Technology (IT), San Diego (Aug 14-17, 2008)
- (9) “CMS in e-Business Applications”, Pete Petathirapat and **Jongwook Woo**, The 2008 international Conference on e-Learning, e-Business, Enterprise Information Systems, e-Government, and Outsourcing, Las Vegas (July 14-16, 2008)
- (10) “CMS in e-Business Architecture”, Jongwook Woo, The 2008 18th Annual KSEA South-Western Regional technology Conference (KSEA-SW 2008), Pasadena, CA (Feb 9, 2008)
- (11) “Introduction to Web Service Architecture for e-Business applications”, Jongwook Woo, [the 8th KOCSEA \(Korean Computer Scientists and Engineers Association in America\) Technical Symposium](#), Los Angeles, CA (Dec 14-15, 2007)
- (12) “TGI on SOA”, Jongwook Woo, The 2007 US-Korea Conference on Science, Technology, and Entrepreneurship (UKC-2007), Information Technology (IT), Washington DC (August 9-12, 2007)
- (13) “Wireless Financial Transaction Reporting System in m-Commerce”, Jongwook Woo, The 2007 International Associations for Computer Information Systems (**IACIS07**), Van Couver, Canada (Oct 3-6, 2007)
- (14) “Integrated Information Systems Architecture in e-Business”, Jongwook Woo, Dong-Yon Kim, Wonhong Cho, MinSeok Jang, The 2007 international Conference on e-Learning, e-Business, Enterprise Information Systems, e-Government, and Outsourcing, Las Vegas (June 26-29, 2007)
- (15) “The enterprise Architecture in Integrated Information”, Jongwook Woo, The 2007 17th Annual KSEA South-Western Regional technology Conference (KSEA-SW 2007), Pasadena, CA (Feb 10, 2007)
- (16) “Cysteine Oxidation Prediction Program (COPP): An Algorithm that Predicts Oxidation Propensity of Protein Cysteine Thiols”, R Sanchez, Jongwook Woo, Jamil Momand, The 20th Annual Symposium of The Protein Society & 20th Anniversary Celebration, San Diego, Volume 15 Suppl. 1, August 5-9 2006
- (17) “e-Business application on JCR (Java Content Repository)”, Jongwook Woo, The 2006 US-Korea Conference on Science, Technology, and Entrepreneurship (UKC-2006), Information Technology (IT), New Jersey (August 10-13, 2006)
- (18) “Financial Transaction Reporting System in m-Commerce”, Jongwook Woo, Dong-Yon Kim, Wonhong Cho, MinSeok Jang, The 2006 international Conference on e-Learning, e-Business, Enterprise Information Systems, e-Government, and Outsourcing (EEE'06/ISBN #:1-60132-006-X/CSREA), p85-96, Las Vegas (June 26-29, 2006)
- (19) “The Introduction of JCR (Java Content Repository)”, Jongwook Woo, The 16th Annual KSEA South-Western Regional Technology Conference, Los Angeles (March 04, 2006)
- (20) “Traversal Pattern Mining in Web Environment”, MinSeok Jang, Weon-Goo Kim, Yon-Sik Lee, Jongwook Woo, The 2005 Workshop on Internet and Network Economics (WINE2005) in **LNCS** (Lecture Notes in Computer Science), Hong Kong (Dec 15-17, 2005)

- (21)“Computationally predicting the oxidation of a protein”, Jongwook Woo, The 2005 US-Korea Conference on Science, Technology, and Entrepreneurship (UKC-2005), Information and Communication Technology Symposium (ICTS-1), Irvine, CA (Aug 11-13, 2005)
- (22)“GVUI in VoiceXML”, Minseok Jang and Jongwook Woo, The 2005 International Conference on Human-Computer Interaction, HCI'05, Las Vegas, Nevada (June 20-23, 2005)
- (23)Jongwook Woo, “The Comparison of J2EE and .NET for e-Business”, The 2005 International Conference on e-Business, Enterprise Information Systems, e-Government, and Outsourcing, EEE 2005, Las Vegas, Nevada (June 20-23, 2005)
- (24)Jongwook Woo, “Data Stream Filtering Systems in XML”, The 2004 International Conference on Parallel and Distributed Processing Techniques and Applications, PDPTA 2004, June 21-24
- (25)Jongwook Woo, Seunghyup Ryu, Jaiyong Lee, Jaehoon Jeong, Jungsoo Park, HyongJoon Kim, “The Extended BGP Algorithm for Multihoming”, *in Proceedings of International Technical Conference on Circuits/Systems, Computers and Communications, ITC-CSCC 2003*, July. 2003
- (26)Jongwook Woo, Seunghyup Ryu, Jaiyong Lee, Jaehoon Jeong, Jungsoo Park, “BGP Extension for Multihoming in IPv6”, *in Proceedings of Eighteenth Korea Information Processing Society*, Nov. 2002
- (27)Jongwook Woo, Seunghyup Ryu, Jaiyong Lee, “The Investigation of Load-Sharing Mechanisms among Site Exit Routers for Multihoming of IPv6”, ETRI Technical Report, June 2002
- (28)Jongwook Woo, “Alias Analysis for Java with Reference-Set Representation in High-Performance Computing”, *PhD Thesis*, August 2001.
- (29)Jongwook Woo, Je-Hak Woo, Isabelle Attali, Denis Caromel, Jean-Luc Gaudiot, Andrew L Wendelborn, “Alias Analysis for Exceptions in Java”, *in Proceedings of Twenty-Fifth Australasian Computer Science Conference*, vol. 24, no. 1, IEEE Press, Jan. 2002. cited by [1](#)
- a. Reference for US Patent 7120898 - Intermediate representation for multiple exception handling models
US Patent Issued on [October 10, 2006](#)
Estimated Patent Expiration Date:  **June 26, 2023**
- (30)Jongwook Woo, Je-Hak Woo, Isabelle Attali, Denis Caromel, Jean-Luc Gaudiot, Andrew L Wendelborn, “Alias Analysis for Java with Reference-Set Representation”, *in Proceedings of Eighth International Conference on Parallel and Distributed Systems, ICPADS 2001*, IEEE Computer Society Press, pp 459-466, June 2001.
- (31)Jongwook Woo, Je-Hak Woo, Isabelle Attali, Denis Caromel, Jean-Luc Gaudiot, Andrew L Wendelborn, “Alias Analysis On Type Inference in Class Hierarchy in Java”, *in Proceedings of Twenty-Fourth Australasian Computer Science Conference, ACSC 2001*, IEEE Computer Society Press, pp 206-214, Jan 2001.

- (32) Je-Hak Woo, Jongwook Woo, Jean-Luc Gaudiot, "Alias Analysis in Java with Referred-set", in *Proceedings of Fourth International Conference on High Performance Computing in Asia-Pacific Region, volume 1, HPC-ASIA 2000*, IEEE Computer Society Press, pp 485-494, Dec 2000.
- (33) Yongwha Chung, Jongwook Woo, Ram Nevatia, Victor K. Prasanna, "Load Balancing Strategies for Symbolic Vision Computations", in *Proceedings of Third International Conference on High Performance Computing, HiPC 1996*, IEEE Computer Society Press, pp 263-269, Dec 96.
- (34) Youngkwan Cho, Ulrich Neumann, and Jongwook Woo, "Improved Specular Highlights with Adaptive Shading", in *Proceedings of Computer Graphics International, CGI 1996*, IEEE Computer Society Press, pp 38-46, June 1996.
- (35) Jongwook Woo, "The Queuing Analysis for ATM Switching of Mixed CBR and VBR Traffics with priority", *Dissertation for M.S. Degree*.
- (36) Joon-Ho Lee, Joong-Gyu Kim, JongWook Woo, MigNong Park, SangBae Lee, "Routing and Flow Control for Computer Communication Network", *Korea Research Development Institute*.

Invited Talk

- (1) "How to start your company", The KSEA-SC Mentoring Workshop 2010 (May 15 2010, Los Angeles, CA)

Books

- (1) Will be published on 2009, Jongwook Woo, Professional Reference Book on "M Commerce" (The title is subject to change); The credit line will appear in the following way: Source: JOURNAL OF SOFTWARE, VOL. 3, NO. 7, OCTOBER, 2008 (www.academpublisher.com) C Academy Publisher. Reprinted with permission.

Technical Reports

- (1) Jongwook Woo, "The Comparison of J2EE and .NET for e-Business", The Technical Report (hipic-10292003) of High-performance Information Computing Center