

COLLEGE OF MEDICINE CURRICULUM VITAE

Jun Ni, PhD

Oct. 17, 2009

I. EDUCATIONAL AND PROFESSIONAL HISTORY

A. List of institutions attended (least to most recent)

1982 BE, Harbin Engineering University, China
1984 MS, Shanghai Jiao Tong University, Shanghai, China
1991 Ph.D., University of Iowa
1992 Postdoctoral Research Associate, Mechanical Engineering, University of Iowa
1992 Postdoctoral Research Associate, National Center of Speech Pathology and Audiology, University of Iowa
1993 Postdoctoral Research Fellow, Purdue University

B. Professional and academic positions held (least to most recent)

1984-1986 Research Associate and Lecturer, Department of Power Machinery Engineering, Shanghai Jiao Tong University, Shanghai, China
1987-1991 Research Assistant/Teaching Assistant
Department of Mechanical Engineering, University of Iowa, Iowa City, Iowa, USA
1992-1993 Postdoctoral Associate, National Center of Speech Pathology and Audiology, The University of Iowa, Iowa City, IA, USA
1992-1993 Postdoctoral Associate, Department of Mechanical Engineering, The University of Iowa, Iowa City, IA, USA
1993-1994 Postdoctoral Research Associate, School of Mechanical Engineering, Purdue University, West Lafayette, IN, USA
1994-2001 Senior Computing Consultant, Advanced Research Computing Services, Information Technology Services, University of Iowa, Iowa City, USA
1994-2004 Adjunct Assistant Professor, Department of Mechanical & Industrial Engineering, College of Engineering, The University of Iowa, Iowa City, IA, USA
1998-2004 Adjunct Assistant Professor, Department of Computer Science, College of Liberal Arts, The University of Iowa, Iowa City, IA, USA
2002-2006 Manager and Associate Research Scientist, Scientific Computing and High Performance Computing, Academic Technologies-Research Services, Information Technology Services, The University of Iowa, Iowa City, IA, USA
2002-2006 Lab Co-Director, Nano-Science Technology Research Lab (STRES Lab), Department of Mechanical & Industrial Engineering, College of Engineering, The University of Iowa, Iowa City, Iowa, USA
2002-2006 Micro CT Research Lab, Department of Radiology, Carver College of Medicine
2003-2007 Lab Director, Medical Imaging High Performance Computing &

- Informatics Lab, Department of Radiology, Carver College of Medicine,
The University of Iowa, Iowa City, IA, USA
- 2006-2007 Lab Director, HPC Nanotechnology Research Lab, Department of
Mechanical & Industrial Engineering, the University of Iowa, Iowa City,
IA, USA
- 2005-2007 Adjunct Associate Professor, Department of Computer Science
College of Liberal Arts and Actual Sciences
- 2005-2007 Adjunct Associate Professor, Department of Mechanical & Industrial
Engineering, College of Engineering, The University of Iowa, Iowa City,
IA, USA
- 2006-2007 Technical Director and Research Scientist
Scientific Computing and High Performance Computing, Academic
Technologies-Research Services, Information Technology Services
The University of Iowa, Iowa City, IA, USA
- 2007-2009 Technical Director
Scientific Computing, Research Services, Information Technology
Services
The University of Iowa, Iowa City, IA, USA
- 2006-pres Honorable Professor, Harbin Engineering University, Harbin, China
2007-pres Associate Professor (primary) and Director,
Medical Imaging High Performance Computing & Informatics Lab
Hawkeye Radiology Informatics
Department of Radiology, Carver College of Medicine, The University of
Iowa, Iowa City, IA, USA
- 2007-10 Associate Professor (secondary)
Department of Mechanical & Industrial Engineering, College of
Engineering, The University of Iowa, Iowa City, IA, USA
- 2007-10 Associate Professor (secondary)
Department of Biomedical Engineering, College of Engineering, The
University of Iowa, Iowa City, IA, USA
- 2008-11 Honorable Adjunct Professor, College of Computer Science and
Technology, Shanghai University, China
- 2008 Visiting Professor (Sabbatical)
National Center for Supercomputing Applications (NCSA), University of
Illinois at Urbana- Champaign (UIUC), Champaign, IL

C. Honors, awards, recognitions, outstanding achievements (least to most recent)

- 1985-1986 President, Youth Faculty Association, Shanghai Jiao Tong University,
China
- 1988-1989 Vice President, Chinese Student and Scholars Friendship Association,
University of Iowa, Iowa City, IA, USA
- 1995-1996 President, Chinese Faculty and Professionals Association, University of
Iowa, Iowa City, IA, USA
- 1997 Award of Faculty/Staff International Travel Funds, International Program,
University of Iowa, Iowa City, IA, USA
- 2001 Award of Mary Jo Small Fellowship, Office Staff Development,
University of Iowa, Iowa City, IA, USA
- 2002 Award of Faculty/Staff International Travel Funds, International Program,

	University of Iowa, Iowa City, IA, USA
2003	Honorary Guest Professor, School of Bioscience and Technology, Shanghai Jiao Tong University, Shanghai, China
2004	Achievement Award of World Academy of Science
2005-pres	President, Science, Technology, Engineering, Mathematics (STEM) Education Society, USA
2006	Honorary Guest Professor, School of Computer Science and Technologies, Harbin Engineering University, China
2006-2009	University of Iowa Human Resources Office selected "Remarkable Employee", The University of Iowa, USA
2007	Achievement Award of World Academy of Science, USA
2008 sum	Summer Faculty Fellowship University of Illinois at Urbana- Champaign (UIUC), Champaign, IL, USA
2008	Honorary Guest Professor, School of Computer Science and Technologies, Shanghai University, Shanghai, China
2008	Honorary Outstanding Faculty Lecture, Zhejiang University, Zhejiang, China

II. TEACHING AT THE UNIVERSITY OF IOWA

A. Teaching assignments (least to most recent)

Graduate-level Credit Courses

(Course assessment score is 5.4/6.0)

Summer, 1994	58/111-55/111 Numerical Methods in Engineering (College of Engineering)
Summer, 1996	58/111-55/111 Numerical Methods in Engineering (College of Engineering)
Summer, 1997	58/111-55/111 Numerical Methods in Engineering (College of Engineering)
Summer, 1998	58/111-55/111 Numerical Methods in Engineering (College of Engineering)
Summer, 1999	22C:112, C++ Programming Language (College of Liberal Arts)
Summer, 2000	58/111-55/111 Numerical Methods in Engineering (College of Engineering)
Summer, 2000	22C:196, Individual Programming Projects (College of Liberal Arts)
Summer, 2000	22C:112, C++ Programming Language (College of Liberal Arts)
Fall, 2000	22C:114, Java Programming Language (College of Liberal Arts)
Fall, 2000	22C:196, Individual Programming Projects (College of Liberal Arts)
Springer, 2001	22C:106, Computer Science I (College of Liberal Arts)
Springer, 2001	22C:196, Individual Programming Projects (College of Liberal Arts)
Summer, 2001	22C:114, Java Programming Language (College of Liberal Arts)
Fall, 2001	22C:114, Java Programming Language (College of Liberal Arts)
Springer, 2002	22C:114, Java Programming Language (College of Liberal Arts)
Springer, 2002	22C:196, Individual Programming Projects (College of Liberal Arts)
Summer, 2002	58/111-55/111 Numerical Methods in Engineering (College of Engineering)
Summer, 2002	22C:114, Computer Science II (College of Liberal Arts)
Fall, 2002	22C:112, C++ Programming Language (College of Liberal Arts)
Spring, 2003	22C:144, Database Management System (College of Liberal Arts)

Springer, 2003	22C:196, Individual Programming Projects (College of Liberal Arts)
Summer, 2003	58/111-55/111 Numerical Methods in Engineering
Springer, 2003	22C:196, Individual Programming Projects (College of Liberal Arts)
Summer, 2003	22C:144, Database Management System (College of Liberal Arts)
Spring, 2004	22C096, Programming in C# in .Net (College of Liberal Arts)
Fall, 2004	22C:196, Individual Programming Projects (College of Liberal Arts)
Springer, 2005	22C:196, Individual Programming Projects (College of Liberal Arts)
Summer, 2005	22C:196, Individual Programming Projects (College of Liberal Arts)
Fall, 2005	22C177/22M178, Parallel Computing and Grid Computing (College of Liberal Arts)
Springer, 2006	22C:196, Individual Programming Projects (College of Liberal Arts)
Summer, 2006	22C:196, Individual Programming Projects (College of Liberal Arts)
Fall, 2006	22C:196, Individual Programming Projects (College of Liberal Arts)
Springer, 2007	22C:196, Individual Programming Projects (College of Liberal Arts)
Fall, 2007	22C:196, Individual Programming Projects (College of Liberal Arts)
Fall, 2007	58:145, Intermediate Heat Transfer (College of Engineering)

Undergraduate-level Credit Courses

(Course assessment score is 5.4/6.0)

Summer, 1999	22C:012, C++ Programming Language (College of Liberal Arts)
Summer, 2000	22C:012, C++ Programming Language (College of Liberal Arts)
Fall, 2000	22C:013, Java Programming Language (College of Liberal Arts)
Springer, 2001	22C:016, Computer Science I (College of Liberal Arts)
Summer, 2001	22C:013, Java Programming Language (College of Liberal Arts)
Fall, 2001	22C:013, Java Programming Language (College of Liberal Arts)
Springer, 2002	22C:013, Java Programming Language (College of Liberal Arts)
Summer, 2002	22C:020, Computer Science II (College of Liberal Arts)
Fall, 2002	22C:012, C++ Programming Language (College of Liberal Arts)
Spring, 2009	074:150, Medical Imaging Informatics (Carver College of Medicine)
Fall, 2009	074:150, Medical Imaging Informatics, Radiological Science (Carver College of Medicine)

B. Graduate students supervision

PhD Student Committee Member

Xiaoxu Han (Ph.D. in Mathematics, 2001)
Xiang Li (Ph.D. in Biomedical Engineering, 2005)
Anand Padmanabhan (Ph.D. in Computer Science, 2006)
Juw Won Park (Ph.D. in Computer Science, 2005)
Tatsuki Matsui (Ph.D. in Physics, 2007)
Yan Liu (Ph.D. in Computer Science, 2006)

MS Student Committee Member

Seyitriza Tigrek (Ph.D. in Mechanical Engineering, 2000)
Hairong Tang (M.S. in Computer Science, graduated in 2002)
Lili Huang (M.S. in Computer Science, graduate in 2005)
James Hunsaker (M.S. in Computer Science, graduated in 2005)
Meenal Vijay Kashikar (M.S. in Computer Science, 2006)
Das Poja (Ph.D. in Computer Science, 2006)
Nedim Barut (MBA, Business Management Science, 2006)
Xiaosen Jiang (M.S. in Computer Science, 2007)

PhD Student Supervised

John Zhang (Ph.D. in Civil Engineering, and Computer Science, graduated in 2004)
Tao He (Ph.D. in Computer Science)
Xiang Li (Ph.D. in Biomedical Engineering, graduated in 2005)
Junjun Deng (Ph.D. in Mathematics, 2006)
Fan Yang (Ph.D. in Electrical and Computer Engineering, 2006)
Xiepeng Wei (Ph.D. in Mechanical Engineering, 2007-)
Bo Qiang (Ph.D. student in Electrical and Computer Engineering, 2007-08)

Graduate Student Co-supervised

Kent Lee (Ph.D., CS, current faculty in computer science, Luther College)
Tom Halverson, (Ph.D., CS, current faculty in CS, Dean, College of Business and Information Systems, Dakota State University)
Eric Van Wyk (Ph.D. CS, current assistant professor in computer science, University of Minnesota)
Esmail Bonakdarian (Ph.D. CS, current faculty in computer science, Oberlin College)
Shaowen Wang (Ph.D. Geography, and current assistant professor in Geography, University of Illinois at Urbana-Champaign)

Previous Postdoctoral Fellows and Research Fellows

John Zhang, Ph.D. Chemical Engineering
Yongqiang Zhao, Ph.D. Computer Science
Zhengge Huang, Visiting Research Investigator
Ying Cheng, Ph.D., Visiting Professor
Xuelin Gong, Ph.D., Visiting Professor
Hiroyuki Mishima, DDS, Ph.D., Research Fellow
Tatsuki Matsui, Ph.D., Research Fellow

Current Ph.D. Students (co-supervised)

Xiepeng Wei (Ph.D. student, UI)
Changming Zhu (Ph.D., student, UI-HEU)
Yanbo Li (Ph.D. student, UI-HEU)

Hualong Yu (Ph.D., student, UI-HEU)
Lin You'e (Ph.D. student, UI-HEU)
Changjie Ma, Ph.D student, UI-HEU)
Lei Shi (Ph.D., student, UI-HEU)
Qiaolong Zhang (Ph.D., student, UI-HEU)
Song Guo (Ph.D. student, UI-HEU)
Yuanbiao Wang (Ph.D. student, UI-Fudan)
Shuan Yang (Ph.D. student, UI-HEU)
Lijie Li (Ph.D. student, UI-HEU)

Current Research Fellows

Jun Duan, Visiting Professor, Inner Mongolia Univ. of Sci. & Technology

Professorships with Other Institutions

- 2003-06 Honorable Adjunct Professor, Shanghai Jiao Tong University –
Bioscience and biotechnology
- 2006-09 Honorable Adjunct Professor, Harbin Engineering University – College of
Computer Science and Technology
- 2008-11 Honorable Adjunct Professor, Shanghai University – College of Computer
Science & Technology

C. Other contributions to institutional programs

Coordinate and Lecturer, Iowa High Performance Computing Summer School (2009 summer)

Coordinator and Lecturer of Scientific Computing Workshops, University of Iowa (1994- present)

High Performance Computing
Parallel Programming with Message Passing Interface
Supercomputing
F90/95 and HPF
Multiprocessing
Timing and Optimizing in High Performance Computing
Computational Chemistry
Gaussian95/98
Parallel Programming with Parallel Virtual Machine
Scientific Data Visualization, OpenGL
Introduction to C Programming Language
Advanced C Programming Language
Virtual Reality Markup Language (VRML)
JavaScript Language for Dynamic Web Design
How to build a LINUX High Performance Computing Cluster.

D. Course materials

Web-based teaching Curriculums in IT and Computer Science:

<http://www.cs.uiowa.edu/~jni/courses/courses.html>

Web-based teaching curriculums in Medical Imaging Informatics

<http://www.uiowa.edu/~hri/education.html>

III. SCHOLARSHIP

A. Publications or creative works

Summary: 31 edited or co-edited books or proceedings; 71 peer-reviewed conference papers; 31 journal papers; 348 SCI journal paper citations to Jun Ni's first-author journal papers (resources: ISI Web of Science, Oct. 17, 2009).

Peer-reviewed Journal Papers

- [1] Jun Ni and Christoph Beckermann, "A Volume Averaged Two-Phase Model for Transport Phenomena during Solidification," Metall. Trans. B, Vol. 22B, pp. 349-361, June, 1991 [SCI-ISI: Web of Science: Journal Citation: 176]
- [2] Jun Ni and Christoph Beckermann, "Natural Convection in a Vertical Enclosure Filled with Anisotropic Porous Media," ASME Journal of Heat Transfer, Vol. 113, pp. 1033-1037, 1991 [SCI-ISI: Web of Science: Journal

Citation: 20]

- [3] Fari Alipour, and Jun Ni, "Numerical Simulation of Laryngeal Flow," *Journal of Acoustic Soc. of American*, Vol. 92, No. 4, Part II, pp. 2391, 1992
- [4] Jun Ni and Christoph Beckermann, "Modeling of Globulitic Alloy Solidification with Melt Convection," *J. of Materials Processing & Manufacturing Science*, Vol. 2, No. 2, pp. 217-231, 1993
- [5] Jun Ni and Christoph Beckermann, "Two-Phase Model and its Numerical Simulation of Metal Alloy Solidification," *J. of Acta Metallurgica Sinica*, Vol. 30, No 9, 1994
- [6] Jun Ni and Frank P., Incropera, "Extension of the Continuum Model for Transport Phenomena Occurring during Metal Alloy Solidification, Part II: Microscopic Considerations," *Int. J. of Heat and Mass Transfer*, Vol. 38, No. 7, pp. 1285-1296, 1995. [SCI-ISI: Web of Science, Journal of Citation: 22]
- [7] Jun Ni and Frank P., Incropera, "Extension of the Continuum Model for Transport Phenomena Occurring during Metal Alloy Solidification, Part I: The Conservation Equations," *Int. J. of Heat and Mass Transfer*, Vol. 38, No. 7, pp. 1271-1284, 1995. [SCI-ISI: Web of Science, Journal Citation: 35]
- [8] Kent Lee, Jun Ni, Tom Halverson, Eric Van Wyk, and Judith Brown, "Is MVE the Right Environment for Your Visualization Application," *Computer Graphics*, Vol. 29, No. 2, May 1995, pp. 49-51
- [9] Christoph Beckermann and Jun Ni, "Simulations of Sedimentation in Globulitic Alloy Solidification," *Int. Communication Journal of Heat and Mass Transfer*, Vol. 23, No. 3, pp.315-324, 1996 [SCI-ISI: Web of Science, Citation: 2]
- [10] George W. Bergantz and Jun Ni, "A Numerical study of sedimentation by dripping instabilities in viscous fluids," *International Journal of Multiphase Flow*, Vol. 25, pp. 307-320, 1999 [SCI-ISI: Web of Science, Citation: 10]
- [11] Youping Deng, Jun Ni and Chaoyang Zhang, "Development of computations in bioscience and bioinformatics and its application," *BMC Bioinformatics*, 2006, 7 (Suppl 4): S19
- [12] Longde Yin, Chun-Hsi Huang, Jun Ni, "Clustering of Gene Expression Data: Performance and Similarity Analysis," *BMC Bioinformatics*, 2006, 7 (Suppl 4): S1
- [13] Lili Huang, Ge Wang, S. Kao, and Jun Ni, "VoluMeasure™: A Portable Java program for Stereological Volume Measurement," *Radiology*, November 2002, Vol. 225 (P)
- [14] Xiang Li, Jun Ni and Ge Wang, "Parallel Iterative Cone Beam CT Image Reconstruction on a PC Cluster," *Journal of X-Ray Science and Technology*, 13(2005) 1-10.
- [15] Junjun Deng, Hengyong Yu, Jun Ni, Shiyi Zhao, Lihe Wang, and Ge Wang, "A Parallel Katsevich algorithm for 3-D CT Image Reconstruction," *Journal of Supercomputing*, Volume 38, Number 1/October, 2006, pp. 35-47, Springer/Kluwer Academic Publisher [SCI-ISI: Web of Science, Citation: 1]
- [16] Jun Ni, Xiang Li, Ge Wang, "Parallel Computing Techniques for Computed Tomography," *Current Medical Imaging Reviews*, 2006, Vol. 2, No. 4, pp. 1-10, Bentham Science Publishers
- [17] Jun Ni, Junjun Deng, Hengyong Yu, Tao He, Ge Wang, "Analytical Model for Performance Evaluation of Parallel Katsevich Algorithm for 3-D CT Image Reconstruction," *Int. Journal on Computational Science and Engineering*, Inderscience Publisher, 2008

- [18] Junjun Deng, Hengyong Yu, Jun Ni, Lihe Wang, and Ge Wang, "Parallelism of Iterative CT Algorithm based on Local Reconstruction," *Journal of Supercomputing*, Springer, 2008
- [19] Shaoping Xiao, Shaowen Wang, Jun Ni, Ransom Briggs, Maciej Rysz, "Reliability Analysis of Carbon Nanotubes Using Molecular Dynamics with the Aid of Grid Computing," *Journal of Computational and Theoretical Nanosciences*, 2008
- [20] Fei Gu, Hang Chen, Jun Ni, and Zhengge Huang, "Protein structural class prediction based on an improved statistical strategy," *BMC Bioinformatics* 2008, 9(Suppl 6):S10
- [21] Hiroyuki Mishima, Andrew C. Lidral, and Jun Ni, "Application of the Linux-based Cluster for Exhaustive Window Haplotype Analysis Computation using FBAT and Unphased Programs," *BMC Bioinformatics* 2008, 9(Suppl 6):S5, 2008
- [22] Guoqing Lu, Jun Ni, Tom Casavant, and Brian Athey, "Highlighting computations in bioscience and bioinformatics: review of the Symposium of Computations in Bioinformatics and Bioscience," *BMC Bioinformatics* 2008, 9(Suppl 6):S1, 2008
- [23] Ying Chen, Chun Zhang, Jia-dong Wang, Zhu-lin Gong, Jun Ni, Lu Zhang, A Data Model for Knowledge-Based Image-Computer-Aided Surgery (ICAS) Systems, *Shanghai Jiaotong University Journal*, SJTU Press 2008, 13(5): 595-599
- [24] Yanbo Li, Jing Zhang, Jun Ni, "Curvature Extraction in Soft Tissue Self-Collision Detection for Virtual Surgery," *Harbin Engineering University Journal* (in Press)
- [25] Junjun Deng, Hengyong Yu, Jun Ni, Lihe Wang, and Ge Wang, "Parallelism of Iterative CT Algorithm based on Local Reconstruction," *Journal of Supercomputing*, Springer, Vol. 48, pp. 1-14, 2009
- [26] Jun Ni, Junjun Deng, Hengyong Yu, Tao He, Ge Wang, "Analytical Model for Performance Evaluation of Parallel Katsevich Algorithm for 3-D CT Image Reconstruction," *Int. Journal on Computational Science and Engineering*, Inderscience Publisher (in press)
- [27] Wang Yuanbiao, Jun Ni, Zhiping Xu, "Effects of Spectral Radius on Echo-State of Neural Network Training," (in press)
- [28] Yuanbiao Wang¹, Zhi-ping Xu, Jun Ni, 'Optimization of Weight Matrix in Echo State Network for Training in Recurrent Neuron Network (RNN),' (in press)
- [29] Xiupeng Wei, Shaoping Xiao, Jun Ni, "Studies of ice melting using molecular dynamics," *Molecular Simulation*, "Journal of Experimental NanoScience" (in press)
- [30] Zhang Lifeng, Chen Ying, Zhang Lu, Jun Ni, Laurie Fajado, Detection of Pleomorphic Distributed Clustered Calcifications in Digital Mammograms (in press)
- [31] Jun Ni, Review of Parallel Computing in Medical Imaging, invited key paper, *Review of Medical Research* (in press)

Peer-reviewed proceeding papers

- [1] Ni, Jun, and Beckermann, C., "Natural Convection in a Vertical Enclosure Filled with Anisotropic Porous Media," in *Natural Circulation in Single-Phase and Two-Phase Flow*, ed. F. B. Cheung and M. S. El-Genk, ASME, HTD-Vol. 115, New York, pp. 15-21, 1989

- [2] Ni, Jun and Beckermann, C., "A Two-Phase Model for Mass, Momentum, Heat and Species Transport during Solidification," in *Transport Phenomena in Material Processing*, ed. M. Charmichi, M. K. Chyu, Y. Joshi, and S. M. Walsh, ASME Publication, New York, HTD-Vol. 132, pp. 45-56, 1990
- [3] Ni, Jun, Feller, R. J., and Beckermann, C., "A Two-Phase Model for Transport Phenomena during Solidification," in *Modeling of Casting, Welding and Advanced Solidification Processes -V*, ed. M. Rappaz, M. R. Ozgu and K. W. Mahin, TMS, Warrendale, TSM Publishing, Pennsylvania, pp. 675-682, 1990
- [4] Beckermann, C. and Ni, Jun, "Micro-Macroscopic Modeling of Transport Phenomena during Solidification," XXII ICHMT International Symposium on Manufacturing and Materials Processing, Dubrovnik, Yugoslavia, Aug. 1990
- [5] Alipour, F. and Ni, Jun, "Numerical Simulation of Laryngeal Flow," presented at the 12th Meeting of the Acoustical Society of America, October 31 to November 4, 1992, New Orleans, LA; also in *Journal of Acoustic Soc. of American*, Vol. 92, No 4, Part II, pp. 2391, 1992
- [6] Ahuja, S., Ni, Jun, and Beckermann, C., "Solid/liquid Interfacial Drag in Equiaxed Solidification," TMS Annual Meeting, San Diego, California, March 1-5, 1992
- [7] Ni, Jun, Knaack, J., and Fan, C., "Geometrical Animation and Numerical Visualization for CAD and CFD of Hydraulic Coupling," in *New Advances in Computer Aid Design and Computer Graphics*, Vol. 1, International Academic Publishers, pp. 855-860; also presented at the 3rd International Conference Proceedings of CAD/Graphics'93, Beijing, China, Aug. 1993
- [8] Ni, J. and Alipour, F., "Animation and Numerical Simulation of Laryngeal Airflow," in *New Advances in Computer Aid Design and Computer Graphics*, Vol. 1, International Academic Publishers, pp. 849-854, 1993; also presented at the 3rd International Conference Proceedings of CAD/Graphics'93, Beijing, China, Aug. 1993
- [9] Beckermann, C. and Jun Ni, "Modeling of Sedimentation in Equiaxed Alloys Solidification," presented at TMS/ASM Materials Week 93 (or 93's TMS Fall Annual Meeting), October 18-21, 1993, Pittsburgh, Pennsylvania
- [10] Ni, Jun, Beckermann, C., and Smith, T.F., "Effect of an Electromagnetic Field on Natural Convection in Porous Media," in *Fundamentals of Heat Transfer in Electromagnetic, Electrostatic, and Acoustic Fields*, eds., Y. Bayazitoglu and V.S. Arpaci, HTD-Vol. 248, pp.23-33, ASME Publication, New York, NY, 1993; also presented at the 29th National Heat Transfer Conference, Atlanta, Georgia, Aug. 8-11, 1993
- [11] Beckermann, C. and Ni, Jun, "Modeling of Equiaxed Solidification with Convection," in *Proceedings of First International Conference on Transport Phenomena Processing*, ed. S. I. Guceri, Technomic Publishing Company, Inc., Lancaster, Pennsylvania, pp. 308-317, 1993
- [12] George W. Bergantz, Jim Mancino, and Jun Ni, "Two-phase of Igneous and Metamorphic Transport Processes: Linking Kinetics, Crystal Growth, Convection and Sedimentation," EOS, Transactions, American Geophysic Union, Vol. 76, No. 46, Nov. 7 Supplement, 1995; presented at 1995 Fall Meeting of American Geophysic Union, San Francisco, CA, Dec. 11-15, 1995
- [13] Jun Ni: "Science and Engineering Online Solution Library for Education," WebNet2000, pp. 972-973, Gordon Davies, Charles B. Owen (Eds.): *Proceedings of WebNet 2000 - World Conference on the WWW and Internet*, San Antonio, Texas, USA, October 30 - November 4, 2000. AACE 2000,

- ISBN 1-880094-40-1, 2000
- [14] Lili Huang, Ge Wang, S. Kao, and Jun Ni, "VoluMeasureTM: A Portable Java program for Stereological Volume Measurement," Education Exhibition, Radiological Society of North American Scientific Assembly and Annual Meeting, Chicago, and December 1-6. 2002
 - [15] Shaowen Wang, Boyd Knosp, Jun Ni, Alexi Mestvirishvili, Yasar Onel, Ahmet Sedat Ayan, Jonathan Olson, and Ugur Akgun, "Building Collaborative Environments for Grid-based Large Hadron Collider Analysis - Efforts at the University of Iowa," in Workshop on Large Hadron Collider (LHC) Global Science – Developing Proposals and Plans for Building the Environment for a Global Collaborative Science Community, Lawrence Berkeley National Laboratory, Berkeley, CA, USA, November 12-13, 2002
 - [16] Xiang Li, Jun Ni, Ge Wang, "Parallel Iterative CT Image Reconstruction on a Linux Cluster of Legacy Computers," to High Performance Computing and Applications (HPCA2004), Shanghai, China, August 8-10, 2004, accepted and being published in Lecture Note in Computer Science (LNCS), Springer-Verlag Heidelberg, Germany, ISBN 3-540-25785-3, 2004
 - [17] Xiang Li, Tao He, Jun Ni, Ge Wang, "P2P-enhanced Distributed Parallel Iterative Cone Beam CT Image Reconstruction," Radiology Society of North America, the 90th Assembly and Annual Meeting (RSNA2004), Nov. 28 - Dec. 3, 2004, McCormick Place, Chicago, Illinois, USA
 - [18] Jun Ni, Tao He, Xiang Li, Shaowen Wang, Ge Wang, "Internet-based Distributed Computing System for EM Medical Image Reconstruction," the third International Grid and Cooperative Computing (GCC2004), Wuhan, China, Oct. 21-24, Lecture Note in Computer Science (LNCS), Vol. 3251, pp 495-501, Springer-Verlag Heidelberg, Germany, 2004
 - [19] Xiang Li, Tao He, Shaowen Wang, Ge Wang, and Jun Ni, "P2P-enhanced Distributed Computing in Medical Image EM Reconstruction," presented and published at the 2004 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'04), Las Vegas, Nevada, USA, June 21-24, 2004, Hamid R. Arabnia and Jun Ni (Eds.), pp. 822-828, Vol. II, ISBN: 1-932415-24-6, CSREA Press, 2004
 - [20] Shaowen Wang, A. Padmanabham, Y. Liu, R. Briggs, Jun Ni, Tao He, Boyd Knosp, and Y. Onel, "A Multi-agent System Architecture for End-user Grid Monitoring Using Geographic information Systems (MAGGIS): Architecture and Implementation," *Lecture Note in Computer Science*, Vol. 3032, pp. 536 – 543, ISBN: 3-540-21988-9, Springer-Verlag Heidelberg, 2004
 - [21] Tao He, Jun Ni, Shaowen Wang, and Boyd Knosp, "Java Grid Computing Library --- A Distributed Programming Solution for Grid Computing," in the conference proceeding of 2nd International Workshop of Grid and Cooperative Computing (GCC2003), Shanghai, China, 2003, *Lecture Note in Computer Science*, Volume 3032, pp. 428 – 435, 2004, ISBN: 3-540-21988-9, Springer-Verlag Heidelberg, 2004
 - [22] Logue MW, Park J, Ni J, Cremer J, Segre A, Knosp B, Beck S, Vieland V., "Interactive visualization tools for genetic data," ASHG 54th Annual Meeting, American Society of Human Genetics, 2004. p528.
 - [23] Juw Won Park, Jun Ni, James Cremer, Mark Logue, "Multidimensional Multivariate Visualization: Directed Visualization on Linkage Analysis, International Conference on Bioinformatics and its Applications (ICBA'04),

- December 16-19, 2004, Nova Southeastern University, Fort Lauderdale, Florida, USA
- [24] Xiaoxu Han, Jun Ni, James Cremer, Xiaoqian Jiang, "An Improved Protein-Folding Algorithm In the HP Model," submitted to International Conference on Bioinformatics and its Applications (ICBA'04), December 16-19, 2004, Nova Southeastern University, Fort Lauderdale, Florida, USA
- [25] Juw Won Park, Mark Logue, Jun Ni, James Cremer, Alberto Segre, Veronica Vieland, "Scientific Visualization of Multidimensional Data: Genetic Likelihood Visualization," presented at High Performance Computing and Applications (HPCA2004), Shanghai, China, August 8-10, 2004, *Lecture Note in Computer Science*, Springer-Verlag Heidelberg, Germany, ISBN 3-540-25785-3, 2004
- [26] Jun Ni, Ge Wang, Shaowen Wang, Tiange Zhuang, Weiqin Tong, "Grid-enhanced International Digital Library (GridIDL) for Medical Imaging," submitted to High Performance Computing and Applications (HPCA2004), Shanghai, China, August 8-10, 2004, *Lecture Note in Computer Science*, Springer-Verlag Heidelberg, Germany, ISBN 3-540-25785-3, 2004
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B. Areas of research interest and current projects

I have been focusing on high performance computing and computational sciences for over 16 years. I am currently interested in medical imaging and informatics, mathematical modeling and numerical simulations of physical and biological systems using high performance computing. I envision there should be great opportunities to develop innovative radiological systems (hardware, algorithms, and software) by using the cutting-edge computing technology. Recently I involve several cyberinfrastructure-based, parallel computing projects for medical imaging, aiming at developing large-scale scalable solutions in medical imaging. The current projects are (1) parallel computing in 3D CT image reconstruction, (2) parallel 3D Monte Carlo simulation of photon migration inside biological tissues, (3) theoretical modeling and numerical simulation of complex biological systems, (4) medical image stereological metrics, (6) medical imaging and radiology informatics, and (7) computations in nanotechnology, and clinic translational studies in tumor dynamics and hyperthermia simulations.

The current projects can be spotlighted at <http://www.uiowa.edu/mihpclub/projects.html>

C. Published reviews of scholarship

N/A

D. Grants received

Ongoing

Title: PI, NSF-CCF-EMT Workshop on Cyberinfrastructure (CI)-based Emerging Models and Petascale Computing for Nanoscience and Nanotechnology

Source of grant: NSF

Amount of Funding: \$50,000

Period of Funding: 2009-2010

Principal Investigator: with co-PI, Dr. Thom Dunning (UIUC-NCSA) and Dr. Jack Dongarra (UTK)

Percent of effort on grant: 1%

Role or contributions: Principal Investigator

Title: NSF Summer Institute on Nanomechanics, Nanomaterials and Micro/Nanomanufacturing, NSF

Source of grant: NSF Fellowship

Amount of Funding: \$2,000

Period of Funding: May 2009 summer

Principal Investigator: Jun Ni
Percent of effort on grant: 1%
Role or contributions: Principal Investigator

Title: A Merging Multi-scale Model for Simulations of Crystallization/Solidification of Nanostructured Materials on Large-scale Parallel Computing Systems
Source of grant: NSF
Amount of direct funds: \$239,000
Period of funding: 2007-2010
Principal investigator: Jun Ni
Percent of effort on grant: 12.5%
Role or contributions: Principal Investigator

Title: NSF Workshop on Emerging Models Technologies for Computations in Nanoelectronics
Source of grant: NSF
Amount of direct funds: \$50,000
Period of funding: 2008-2010
Principal investigator: Jun Ni
Percent of effort on grant: 1%
Role or contributions: Principal Investigator

Title: Develop an emerging model for computations in biological nanoelectronics devices
Source of grant: UI-ICRU
Amount of direct funds: \$2,500
Period of funding: 2008-2009
Principal investigator: Jun Ni
Percent of effort on grant: 1%
Role or contributions: Principal Investigator

Completed

Title: A Large-scale Parallel Katsevich Algorithm for 3D Cone-beam CT Image Reconstruction
Source of grant: NIH
Amount of direct funds: \$221,250
Period of funding: 2006-2007
Principal investigator: Jun Ni
Percent of effort on grant: 65%
Role or contributions: Principal Investigator

Title: HPC Hardware Solution for UI-IMHPC Lab's Medical Imaging Research and Medical Imaging Informatics
Source of grant: Intel Inc.
Amount of direct funds: \$500,000
Period of funding: 2007-2008
Principal investigator: Jun Ni
Percent of effort on grant: 1%
Role or contributions: Principal Investigator

Title: Research and Development of Rocks-Linux Window-Compute Cluster, Dual-operated HPC Systems for Medical Imaging and Informatics

Source of grant: Microsoft

Amount of direct funds: \$30,000

Period of funding: 2007-2008

Principal investigator: Jun Ni

Percent of effort on grant: 2%

Role or contributions: Principal Investigator

Title: NER/SNB: Haenessing the Spin-Stabilized Motion of a Multi-walled Carbon Nanotube for Memory-cell Operation

Source of grant: NSF

Amount of direct funds: \$100,000

Period of funding: 2005-2006

Principal investigator: Jun Ni

Percent of effort on grant: 25%

Role or contributions: Co-Investigator

Title: Establishing a Compact Muon Solenoid Grid-based Tier-2 National Computing Center and NSF Shared Cyber-infrastructure Tier-2C Program at The University of Iowa

Source of grant: University of Iowa Internal Funding Program/MPSFP

Amount of direct funds: \$115,000

Period of funding: 2004-2005

Principal investigator: Yasar Onel

Percent of effort on grant: 25%

Role or contributions: Co-Investigator

Title: Finding Genes Responsible for Continues Traits: A Computer Program

Source of grant: University of Iowa Internal Funding Program/MPSFP

Amount of direct funds: \$30,000

Period of funding: 2004-2005

Principal investigator: Kai Wang

Percent of effort on grant: 5%

Role or contributions: Co-Investigator

Title: Prototyping, Testing, and Operating an Intra-campus Research Grid – HawkGrid: an Application-Driven Approach

Source of grant: University of Iowa Internal Funding Program/MPSFP

Amount of direct funds: \$45,608

Period of funding: 2004-2005

Principal investigator: Shaowen Wang

Percent of effort on grant: 5%

Role or contributions: Co-Investigator

Title: Computation in Transport Phenomena during Material Processing

Source of grant: NSF

Amount of direct funds: 300,000 SUs

Period of funding: 2004-2005

Principal investigator: Jun Ni
Percent of effort on grant: 5%
Role or contributions: Principal Investigator

Title: National Center for Supercomputing Applications Small Allocation Application,
Source of grant: NSF-NCSA
Amount of direct funds: 10,000 SUs
Period of funding: 2004-2005
Principal investigator: Jun Ni
Percent of effort on grant: 5%
Role or contributions: Principal Investigator

Title: Lattice Boltzmann Simulation of Fluid under Grid Computing Environment
Source of grant: University of Iowa Internal Funding Program/MPSFP
Amount of direct funds: \$30,000
Period of funding: 2002-2003
Principal investigator: Jun Ni
Percent of effort on grant: 5%
Role or contributions: Principal Investigator

Title: A Prototype Genetics Likelihood Visualization Utility
Source of grant: University of Iowa Internal Funding Program/MPSFP
Amount of direct funds: \$30,000
Period of funding: 2002-2003
Principal investigator: Mark Logue
Percent of effort on grant: 5%
Role or contributions: Co-Investigator

Title: The Development of a Proof-of-Concept Physics Grid Tier-2 Center
Source of grant: University of Iowa Internal Funding Program/MPSFP
Amount of direct funds: \$30,000
Period of funding: 2002-2003
Principal investigator: Yasar Onel
Percent of effort on grant: 5%
Role or contributions: Co-Investigator

Title: Sedimentation by Dripping Instability in Viscous Fluids in Geophysical System
Source of grant: University of Iowa Internal Funding Program/MPSFP
Amount of direct funds: \$30,000
Period of funding: 1995-1996
Principal investigator: G.W. Bergantz
Percent of effort on grant: 30%
Role or contributions: Co-Investigator

Title: Research and development of database system for storage management in petroleum industrial
Source of grant: Da-Gang Petrologic Industrials Inc.
Amount of direct funds: ¥120,000
Period of funding: 1985-1986
Principal investigator: Jun Ni

Percent of effort on grant: 30%

Role or contributions: Principal Investigator

Pending

- PI, NIH-R01, Ontological Data Mapping and Domain Modeling in Medical Imaging Informatics, (request \$1,338,000)
- Co-PI, NIH-G20, Renovation of Core Facilities to Establish Managed Campus Research Data Center, PI Steve Fleage (request \$ 7,793,952)
- PI, NIH-R01, Multiscale Modeling of Biotransports in Nanothermo/Chemo-radiation Therapies (request \$1,000,000)
- PI, NIH-R01, Parallelism of Cone-Beam Katsevich Image Reconstruction on GPU/Cell Clusters (request \$1,117,535)
- PI, NIH-S10- Acquisition of a High-end, Multi-core Supercomputer for Medical Imaging and Medical Informatics (request \$3,511,299)
- PI, Shell Global, Computational, Full-field Modeling and Petascale Simulation of Steam Assisted Gravity Drainage (SCGD)-based Heavy Oil Recovery
- Co-PI, Shanghai Science and Technology Grant, Asian Breast Imaging CAD Systems (with PI: Ying Chen, co-PI Laurie Fajardo)

E. Invited lectures (72)

- [1] Jun Ni, "Modeling and Simulation of Multi-phase, Multi-component Transport Phenomena during Materials Processing," DOE AMES Lab, Iowa, 1995
- [2] Jun Ni, "Web enhanced scientific computing: Science and Engineering online Solution Libraries," presented at CIC Tech Forum, NCSA, 1998
- [3] Jun Ni, "Internet2 Powered Tele-immersive Virtual Applications Using OpenGL and Cave Library," NSC-NSF Joint Conference on NGI Applications, TANets, Taiwan, 1999
- [4] Jun Ni and Lili Huang, "Hybrid High Performance Networking and High Performance Computing with Java Client/Server Enhanced Technology," poster, Supercomputing Conference 2001 (SC2001), IEEE/Computer Society, Denver, Colorado, Nov. 2001
- [5] Shaowen Wang and Jun Ni, "Grid-empowered Knowledge Discovery," Presentation Series for University Faculty Members Who are Interested in Grid computing, University of Iowa, Iowa City, IA, U.S.A, September, 2002
- [6] Shaoping Xiao and Jun Ni "Multiscale Methods (QM/MM/CM) at Nanoscale," UI research booth, Supercomputing 2003
- [7] Jun Ni, John Zhang, Ching-Long Lin, and Shaowen Wang, "Parallelization of a Lattice Boltzmann Method for Lid-Driven Cavity Flow," UI research booth, Supercomputing 2003
- [8] Jun Ni, Tao He, John Zhang, Shaowen Wang, and Boyd Knosp, "P2P Parallel Computing using MCMS Architecture," UI research booth, Supercomputing 2003
- [9] Jun Ni, Lili Huang, Edward He, John Zhang, Shaowen Wang, and Boyd Knosp, "Distributed Computation for Diffusion Problems in a Grid Computing System," UI research booth, Supercomputing 2003
- [10] Shaoping Xiao, and Jun Ni, "Grid-enhanced Molecular Dynamics Simulation," UI research booth, Supercomputing 2003
- [11] Shaoping Xiao and Jun Ni, "Multiscale Methods (QM/MM/CM) at Nanoscale," poster presentation, Symposium on Nanoscience and Nanotechnology, University of Iowa, , Iowa City, USA, Nov 12, 2003

- [12] Shaoping Xiao and Jun Ni, "Grid-enhanced Molecular Dynamics Simulation," poster presentation, Symposium on Nanoscience and Nanotechnology, University of Iowa, , Iowa City, USA, Nov 12, 2003.
- [13] Jun Ni, "Multi-scale Modeling and Simulation of Nano-materials Process of Monodispersed Particles," poster presentation, Symposium on Nanoscience and Nanotechnology, University of Iowa, Iowa City, USA, Nov 12, 2003
- [14] Jun Ni, Tao He, L. Huang, S. Wang, B. Knosp, and C Lin, "Distributed Computation for Diffusion Problem in a P2P-Enhanced Computing System," in the conference proceeding of 2nd International Workshop of Grid and Cooperative Computing (GCC2003), Shanghai, China, 2003
- [15] Jun Ni, "NanoGrid: New Computational Infrastructure for Nano-Science and Technologies," poster presentation, Symposium on Nanoscience and Nanotechnology, University of Iowa, Iowa City, USA, Nov 12, 2003
- [16] Tao He, J. Ni, S. Wang, and B. Knosp,"Java Grid Computing Library: A Distributed Programming Solution for Grid Computing," in the conference proceeding of 2nd International Workshop of Grid and Cooperative Computing (GCC2003), Shanghai, China, 2003
- [17] Shaowen Wang, A. Padmanabham, Y. Liu, R. Briggs, J. Ni, T. He, B. Knosp, and Y. Onel, "A Multi-agent System Architecture for End-user Grid Monitoring Using Geographic Information Systems (MAGGIS): Architecture and Implementation," in the conference proceeding of 2nd International Workshop of Grid and Cooperative Computing (GCC2003), Shanghai, China, 2003
- [18] Jun Ni, "Grid Computing in Medical Image Analysis and Processing," Shanghai Jiao Tong University, Shanghai, China, Dec. 2003
- [19] Jun Ni, "Applications of Research Computing at UI," Zhejiang University, Zhejiang, China, Dec., 2003
- [20] Jun Ni, "Grid Computing and Application Scenarios," Shanghai University, China, Dec. 2003
- [21] Tao He, Jun Ni, Shaowen Wang, and Boyd Knosp, "Java Grid Computing Library --- A Distributed Programming Solution for Grid Computing," in the conference proceeding of 2nd International Workshop of Grid and Cooperative Computing (GCC2003), Shanghai, China, 2003
- [22] Jun Ni, Tao He, and Ge Wang, "Maximum Likelihood Iterative Algorithm for Medical Image Reconstruction on a P2P Distributed Computing Environment," in Midwest Numerical Analysis Conference, sponsored by NSF and The Institute for Mathematics and its Applications (IMA), May 20-22, 2005, Iowa City, USA
- [23] Shaoping Xiao, Deepak Srivastava (NASA), Dr. Meyya Meyyappan (NASA), Jun Ni, "Computational Domains for Explorations in Nanoscience and Technology," invited tutorial on International Conference on Computational Science (ICCS'05), Atlanta, Georgia, USA, May 22-24, 2005
- [24] Shaoping Xiao, Jun Ni, Deepak Srivastava (NASA), and Dr. Meyya Meyyappan (NASA), "Computational Domains for Explorations in Nanoscience and Technology," The First Int. Workshop on High Performance Computing for Nanotechnology (HPCNano|06), Nov. 16, 2005, IEEE/ACM SC2005 (Tutorial)
- [25] Shaoping Xiao and Jun Ni, "Computational Nanoscience and Technology," NASA Ames Research Center, April 2006. (Invited talk)
- [26] Jun Ni, "How to prepare conference paper and paper submission," IMSCCS|06, June 20-24, 2006 (Tutorial)

- [27] Jun Ni and Shaoping Xiao, "Computational Nanoscience and Technology," IMSCCS|06, June 20-24, 2006 (tutorial)
- [28] Youping Deng and Jun Ni, "Introduction to Bioinformatics," IMSCCS|06, June 20-24, 2006 (tutorial)
- [29] Jun Ni, "Spotlight on UI-Based HPC Applications in Medical Imaging," Research Academic Computing, UITS, Indiana University, Oct. 11, 2006
- [30] Jun Ni, "Spotlight on HPC Applications in Medical Imaging," Computer Science, Colloquium, University of Iowa, Oct. 20, 2006
- [31] Jun Ni, "Spotlight on HPC Applications in Medical Imaging," Department of Electrical and Computer Engineering, Seminar, University of Iowa, Nov. 9, 2006
- [32] Jun Ni, "Spotlight on HPC Applications in Medical Imaging," Pacific Northwest National Lab, Department of Energy, Dec. 13, 2006
- [33] Jun Ni, "A Object-Oriented, Geometrical Description about Academic Research Computing," Dartmouth College, March 30, 2007
- [34] Jun Ni, "Large-scale High Performance Computing for Medical Imaging," Center for Computation & Technology, Louisiana State University, April 4, 2007
- [35] Jun Ni, "Cyberinfrastructure-enabled Radiology Informatics," Department of Radiology, University of Iowa, April 24, 2007
- [36] Jun Ni, "Parallel Implementation of Model of Response Accuracy and Response Time in Computerized Testing," ICCS|07, Beijing, May 28, 2007
- [37] Jun Ni, "Scholar Gates at Harvard University: Introduction to Harvard College," Harbin Engineering University, June 1, 2007
- [38] Jun Ni, "High Performance Computing in Medical Imaging," Harbin Engineering University, June 1, 2007
- [39] Jun Ni, "HPC-enhanced Computations in Nanotechnology," Harbin Engineering University, June 1, 2007
- [40] Jun Ni, "Cyberinfrastructure-Enabled Petascale Computing for Nanotechnology (cPCN)," Great Lake Consortium-Petascale computing workshop, July 14, Northwestern University, 2007
- [41] Jun Ni and Laurie Fajardo, "Cyberinfrastructure-Enabled Medical Imaging Informatics," Great Lake Consortium-Petascale computing workshop, July 14, Northwestern University, 2007
- [42] Jun Ni and Shaoping Xiao, "Computational Domains for Explorations in Nanoscience and Technology," Int. Multi-symposiums on Computer and Computational Sciences, 2007, Aug. 15, 2007
- [43] Jun Ni, "Integration and Implementation of Cyberinfrastructure," National Science Foundation (NSF)-Office of Cyberinfrastructure (OCI), Aug. 20, 2007
- [44] Jerry Shnoor and Jun Ni, "Cyberinfrastructure-Enabled Computational Thinking Machine for Environmental Science," Oct. 4, 2007, CyberEnviroNetr meeting, University of Iowa
- [45] Jun Ni, "The Role of Large-Scale Computation and Cyber-Enabled Discovery in Multi-scale Simulations of Nanostructured Materials," Multi-Scale Modeling (MSM), NSF Nanoelectronics Workshop, Washington, DC, October 15-16, 2007
- [46] Jun Ni and Saioping Xiao, "The Role of Large-Scale Computation and Cyber-Enabled Discovery in Multi-scale Simulations of Nanostructured Materials," Workshop on NSF Nanoelectronics: Circuits, Systems, and CAD Tools, Oct. 15-16, 2007

- [47] Jun Ni, Invited feature talk, "HPC-enabling technology for medical imaging and informatics in integrated medical image informatics systems," First Annual Microsoft HPC Summit, in IEEE/ACM SC07, Reno, NV, USA
- [48] Jun Ni, "Cyber infrastructure-enabled Computations for the Discovery of Innovative Technology in Medical Imaging through Nanotechnology," HPCNano07, in IEEE/ACM Supercomputing 2007, Reno, NV, USA
- [49] Bo Qiang, Jun Ni, and Laurie Fajardo, "Parallel Monte Carlo Algorithm for Simulation of Photon Migration inside Biological Tissues," RSNA07, Chicago, USA, Scientific Paper, Nov. 25-30, 2007
- [50] Jun Ni, "Vision of Cyberinfrastructure for Biomedical Imaging," ECE Graduate Seminar and the Iowa Institute of Biomedical Imaging, Feb. 7, 2008
- [51] Jun Ni, "Modeling of biotransport in biophysics systems using petascale computing and medical imaging," NSF invited workshop on Biological Communications and Molecular Communications, Feb. 20-21, 2008
- [52] Jun Ni, "Parallel Monte Carlo Algorithm for Simulation of Photon Migration inside Biological Tissues," The Iowa Institute of Biomedical Imaging, Seminar, May 1, 2008
- [53] Jun Ni, "Cyber-enabled HPC for Accelerating Medical Imaging & Informatics Research," presented at National Center for Supercomputing Applications (NCSA), Summer Faculty Fellowship, Opening, June 5, 2008
- [54] Jun Ni, "Parallel Computing for Medical Image Reconstruction," NCSA Faculty Summer Fellowship, UIUC, July 25, 2008
- [55] Jun Ni, "Challenges of Modeling and Computations in Nanoscale Electronics and Applications", Graduate Seminar, Department of Electrical and Computer Engineering, University of Iowa, Sept. 11, 2008.
- [56] Jun Ni, "Cyberinfrastructure for Medical Imaging Informatics and High Performance Computing, Harbin Engineering University, Harbin, China, Oct. 22, 2008
- [57] Jun Ni, "Envision of Radiology Informatics and System Radiology," SJTU-Medical School, Oct. 18, 2008
- [58] Jun Ni, "High Performance Computing for Medical Imaging," Shanghai University, Shanghai, China, Oct. 24, 2008
- [59] Jun Ni, "Emerging Models and Technologies for Multi-scale Modeling and Simulations of Nano-structured Material Formations and Property Predictions," Computer Science Colloquium, The University of Iowa, Jan. 30, 2009
- [60] Jun Ni, "Envisioning Future Radiology Informatics," Radiology Faculty Meeting, Department of Radiology, Caver College of Medicine, University of Iowa, March 24, 2009
- [61] Jun Ni, "Effects of Tumor Orientations and Principal Axis Ratios on the Volumetric Measurements of Tumor Ellipsoidal Model," Radiology Faculty Meeting, Department of Radiology, Caver College of Medicine, University of Iowa, April 14, 2009
- [62] Jun Ni, "Orchestra of Medical Imaging Informatics Research and Education," Iowa Undergraduate Computer Science Consortium Meeting, April 25, 2009.
- [63] Jun Ni, "Multi-scale Model and Simulations of Melting, Crystallization/Solidification, and Saturation in Nano Particle Processing," NSF, Research Experience for Undergraduates (NSF-REU) in Nano-science and Nanotechnology, the University of Iowa, June 11, 2009

- [64] Jun Ni, "Spectrum of Cyber-enabled Radiology Informatics," Minnesota Supercomputing Institute for Advanced Computational Research, University of Minnesota, June 29, 2009
- [65] Jun Ni, "Introduction to Computational Science and Engineering," Iowa HPC Summer School, Aug. 6, 2009
- [66] Jun Ni, "Message Passing Interface Programming I," Iowa HPC Summer School, Aug. 6, 2009
- [67] Jun Ni, "Message Passing Interface Programming II," Iowa HPC Summer School, Aug. 7, 2009
- [68] Jun Ni, "Introduction to Multi-core, Multithread, and GPU Programming," Iowa HPC Summer School, Aug. 7, 2009
- [69] Jun Ni, "Multi-scale Modeling and Simulations," Iowa HPC Summer School, Aug. 7, 2009
- [70] Jun Ni, "Introduction to Hawkeye Radiology Informatics," Mayo Clinic, Rochester, MN, Aug. 10, 2009,
- [71] Jun Ni, "Ontological domain and data model in medical imaging and radiology informatics," Computer Science Colloquium, Department of Computer Science, Simpson College, Indianola, Iowa, Oct. 26, 2009
- [72] Jun Ni, "Multi-scale model and petascale computing for biotransport of tumor systems for nanothermotherapy," Computer Science Colloquium, Department of Computer Science, Simpson College, Indianola, Iowa, Nov. 6, 2009

F. Pending decisions (grant proposals, book contracts)

- PI, NSF Fellowship NSF Summer Institute on Nanomechanics, Nanomaterials and Micro/Nanomanufacturing, Northwestern University (submitted)
- Co-PI, NSFC-Biomedical Engineering, Snake Algorithm for Simulation of Protein Folder Processing, Jing Zhang (PI), Yunhan Chen (co-PI), (request RMB 273,800) (submitted)
- PI, SIIM New Investigator Travel Award Application: Wiki-based online Open Curriculum for Medical Imaging Informatics, request \$1,000
- PI, NSF-CCF-EMT Workshop on Cyberinfrastructure (CI)-based Emerging Models and Petascale Computing for Nanoscience and Nanotechnology, co-PI, Thom Dunning (UIUC) NCSA), Jack Dongarra (UTK), (request \$ 50,000)
- PI, SIIM Protocols of Wiki-powered Curriculums for Radiology Informatics, Society of Imaging Informatics for Medicine (request \$50,000, submitted on Aug. 1, 2008)
- Co-PI, NSFC-Biomedical Engineering, Multi-variable decision-making mechanism in knowledge-based, early-stage breast cancer diagnoses systems, PI, Zhang Lu (Shanghai Jiao Tong University, Medical School), Co-PIs, Yajia Gu, M.D. (Shanghai Cancer Hospital), Ying Zhen, Zhulin Gong (SJTU), Dr. Laruie Fajardo, M.D. (University of Iowa, College of Medicine) (request RMB 350,800; submitted Feb. 25, 2008)
- Co-PI, NSF-EMT/NANO: Multiscale Modeling and Simulation of Nanotube-reinforced Polymer Composites with the Aid of High-Performance Computing, PI, Shaoping Xiao (request \$447,066; March 4, 2008)
- Co-PI, NSF-EMT/NANO: Cyberinfrastructure-enabled multi-scale modeling and simulation of nanotube-based devices, PI, Shaoping Xiao (request \$958,026, March 4, 2008)
- PI, Department of Defense (DoD), Defense Research and Engineering (DDR&E) National Security Science and Engineering Faculty Fellowships (NSSEFF), Multi-scale Modeling and Simulations of Biotransport Phenomena in Complex

Biophysics Systems Using Petascale Computing and Medical Imaging,
nominated by President Sally Mason of University of Iowa, request \$3,000,000
(white-paper proposal was submitted on Feb. 10, 2008)

IV. SERVICE

A. Offices held in professional organizations (least to most recent)

University of Iowa Community

- 2004-pres Affiliated Faculty Member, Center of Bioinformatics and Computational Biology (CBCB), University of Iowa, Iowa City, Iowa, USA
- 2006-pres Executive Committee and Core Faculty Member, Nano-science Nanotechnology Institute (NNI), University of Iowa, Iowa City, Iowa, USA
- 2007-pres Faculty Member, Group Leader, Computational Imaging Group, The Iowa Institute for Biomedical Imaging
- 2008-pres Education Committee, Department of Radiology, College of Medicine

National/Government Relations and Outreach

- 2005-pres Committee Member, Coalition for Academic Scientific Computation (CASC) for University of Iowa (www.casc.org)
- 2005-2008 Committee Member, ASME Government Relation Team for K12 Science, Technology, Engineering and Math Education
- 2006-pres Committee Member, National STEM Education Coalition Committee (www.stemedcoalition.org) for USA K12 Education
- 2006-pres Committee Chair, STEM Education Society (www.stemes.org) -- Open Society for USA K12 Education
- 2008- Operation Council Member, Virtual School of Computational Science and Engineering, the Great Lakes Consortium for Petascale Computation

Faculty Evaluation

- 2006 Committee Member, Tenure and Promotion to Associate Professor Committee, Department of Computer Science, University of Akron, Ohio

USA Government Research Agency, Grant Review

- 1986-2007 USA National Science Foundation, Panelist and Grant Reviewer
USA National Institute of Health, External Grant Reviewer

University Internal Grant, External Reviewer

- 2007 WSU Research Enhancement Program in Computational Biology for NIH-Clinical Translational Science Award (CTSA), Wayne State University
- 2007 Invited reviewer for USA National Coordination Office for Networking and Information Technology Research and Development (NITRD) for National Science and Technology Council (NSTC), Federal Plan and Documentation Review, "Federal Plan for Advanced Networking Research and Development"
- 2008-2009 Five-Year Strategic Plan for Federal Networking and Information Technology Research & Development Program, US National Coordination Office for Networking and Information Technology Research and Development (NITRD), 2008, 2009

Editorial Activities

Editor-in-Chief

Journal of Medical Imaging and Radiology Informatics (JMIRI), America
Scientific Publishers (2007-present)

Journal of Bioinformatics and Computational Biosciences (JBCB), America
Scientific Publishers (2007-present)

Associate Editor

Science Letters, America Scientific Publishers (2007-present)

Editorial Board Member

e-Book Editor, Bentham Science Publishers (2009-present)

International Journal of Information Retrieval Research (2009-present)

Journal of Computer Science and Information Technology (2009-present)

Reports in Medical Imaging, [Dove Medical](#) Press (2008-present)

The Journal of Future Generation Information Technology (FGIT) (2009-present)

e-Book Editor, Bentham Science Publishers (2009-)

International Journal of Information Retrieval Research (2009-)

[Journal of Supercomputing](#), Springer/Kluwer Academic Publishers (2004-present)

Journal of Computer Science and Information Technology (2009-present)

Reports in Medical Imaging, [Dove Medical](#) Press (2008-present)

The Journal of Future Generation Information Technology (FGIT) (2009-present)

[Frontiers of Mechanical Engineering in China](#), Springer/Kluwer Academic
Publishers (2007-present)

[International Journal of Computational Science and Engineering](#), Inderscience
Publishers (2003- present)

[International Journal of Grid and Utility Computing](#), Inderscience Publishers
(2003- present)

Journal of Computational Intelligence in Bioinformatics, RIP Publications (2007-present)

[Journal of Computational and Theoretical Nanoscience](#), American Scientific
Publishers (2007- present)

[Scientific Journals International](#) (2007-present)

Supplemental Issue Guest Editor

BMC Journals (2007-present)

Special Issue Editor/Guest Editor

Special Issue on Computational Biology and Bioinformatics, BMC
Bioinformatics, 2007 (in press)

Special Issue on Journal of Computational and Theoretical Nanotechnology,
2007

Special issue on "Computations Biomedical Engineering: Medical Imaging, and
Medical Data Processing," Int. Journal of Computational Science and
Engineering (IJCSE), Inderscience Publisher, 2007 (in press)

Special Issue on Computational Biology and Bioinformatics, BMC
Bioinformatics, 2006, 7 (Suppl 4): paper S1-S28

Special Issue on Computational Methods and Techniques for Nanoscale
Technology Computer Aided Design, International Journal of Computational
Science and Engineering (IJCSE), Volume 2 - Issue 3/4 – 2006

Journal Referee/Technical Paper Reviewer

Journal of Materials Chemistry, Royal of Society of Chemistry (Impact Factor: 4.28)
BMC Genomics, MBC Central, Open Access Publisher (Impact Factor: 4.03)
Physiological Genomics, American Physiological Society (Impact Factor: 3.79)
Physical Chemistry Chemical Physics, Royal of Society of Chemistry (Impact Factor: 3.62)
BMC Bioinformatics, BMC BioMed Central Publisher (Impact Factor: 3.62)
CrystEngComm, Royal of Society of Chemistry (Impact Factor: 3.47)
BMC Proteome Science, BMC BioMed Central (Impact Factor: 2.63)
IEEE Transaction on Nanotechnology (Impact Factor: 1.91)
International Journal of Heat and Mass Transfer, Elsevier Press (Impact Factor, 1.48)
Modeling and Simulation in Materials Science and Engineering, IOP Publishing (Impact Factor: 1.46)
Metallurgical Transaction A, TMS Press (Impact Factor, 1.37)
Computer Graphics Forum, Blackwell Publishing (Impact Factor: 1.164)
Journal of Acoustical Society of America, ASA Press (Impact Factor: 1.433)
Numerical Heat Transfer, Taylor & Francis Group (Impact Factor: 0.936)
Metallurgical Transaction B, TMS Press (Impact Factor: 0.91)
Computers & Graphics, Elsevier-UK (Impact Factor: 0.601)
Communications in Numerical Methods in Engineering, Wiley Press (Impact Factor: 0.518)
Advances in Engineering Software, Elsevier Science (Impact Factor: 0.432)
Journal of Supercomputing, Springer-Kluwer Academic Publisher (Impact Factor: 0.398)
Journal Future Generation of Computer Systems, Elsevier Press (Impact Factor: 0.094)
Computational Science & Discovery, IOP Press
Journal of X-ray Science and Technology, IOP Press
Numerical Algorithms, Springer-Kluwer Academic Publisher
Open Bioinformatics Journal
Popular Science Magazine in Health
Eurographics
Oxford Briefings in Bioinformatics, Oxford University Press
Reviewer of Journal Proposals for Springer Publisher
Scientific Journals International (SJI)
Journal of Computational Intelligence in Bioinformatics, RIP Publications
Journal of Zhejiang University (A), JZUS Press
International Journal of Wireless and Mobile Computing, Inderscience Press
International Journal of Computational Science and Engineering (IJCSE), Inderscience Press
International Journal of Grid and Utility Computing, Inderscience Press
Journal of Pervasive Computing and Communications, Emerald Group Publishing
Journal of Autonomic and Trusted Computing, American Scientific Publishers
Journal of Ubiquitous and Intelligence, American Scientific Publishers
International Journal of Biomedical Imaging, Hindawi Publishing Corporation
Society for Modeling and Simulation International (SCS) Journal: Simulation
Journal of Universal Computer Science, Know Center
International Journal of Euro-graphics

Journal of Heat Transfer, ASME Press
International Journal of Heat and Mass Transfer, Elsevier Press

Proceeding Referee/Reviewer

Before 2002

National Heat Transfer Conference (1993)
International Heat Transfer Conference (1993)
TMS Conference (1993)
ASME Conference Proceedings (1994)
iGrid2002 Conference (2002)

2003

The 2003 International Conference on Parallel and Distributed Processing
Techniques and Applications (2003)
The Second International Grid and Cooperative Computing 2003 Conference (2003)
IEEE/ACM SIGGRAPH Conference (2003)

2004

Bioinformatics and its Applications (2004)
The International Symposium on Computational and Information Sciences (2004)
Second International Symposium on Parallel and Distributed Processing and
Applications (2004)
The International Workshop on Visualization and Visual Steering (2004)
Third Workshop on Hardware/Software Support for High Performance Scientific
and Engineering Computing (2004)
The 4th International Conference on Computer and Information Technology
(2004)
International Symposium on High Performance Computational Science and
Engineering, (2004)
High Performance Computing and Applications (2004)
International Conference on Virtual-Reality Continuum and its Applications in
Industry (2004)
The 6th Workshop on High Performance Scientific and Engineering Computing
(2004)
Challenges of Large Applications in Distributed Environments (2004)
Grid Computing Technology and Applications (2004)
The 2004 International Conference on Parallel and Distributed Processing
Techniques and Applications (2004)
The Third International Grid and Cooperative Computing 2004 Conference (2004)
The Fourth International Conference on Computer and Information Technology
(2004)
The International Symposium on Computational and Information Sciences (2004)
International Conference on Parallel and Distributed Processing Techniques and
Applications (2004)
The Sixth Workshop on High Performance Scientific and Engineering Computing
with Applications (2004)
Challenges of Large Applications in Distributed Environments (2004)
International Conference on Virtual-Reality Continuum and its Applications in
Industry (2004)

2005

The IEEE/ACM International Workshop on High Performance Computing for Nano-science and Technology (2005)
IADIS Bioinformatics (2005)
HPCAsian (2005)
The Fourth International Conference on Grid and Collaborative Computing (2005)
Scientific Committee Member: Multi Conference on Computer Science and Information Systems (2005)
Third International Symposium on Parallel and Distributed Processing and Applications (2005)
International Workshop on Computational Nano-Science and Technology (2005)
International Conference on Computational Science (2005)
International Conference on Grid Computing and Applications (2005)
IEEE Workshop on High Performance Computing in Medicine and Biology (2005)
Challenges of Large Applications in Distributed Environments (2005)
International Workshop on Bioinformatics and Application (2005)
International Conference on Computational Science (2005)
17th IMACS World Congress Scientific Computation, Applied Mathematics and Simulation
High Performance Computing Symposium (2005)
Grid Computing Technology and Applications (2005)
The International Conference on Parallel and Distributed Processing Techniques and Applications (2005)
The third International Conference on Information Technology and Applications
The 2005 International Workshop on XML Technology (2005)
The Seventh Asia Pacific Web Conference (2005)

2006

The IEEE/ACM International Workshop on High Performance Computing for Nano-science and Technology (2006)
The First Workshop on High Performance Computing in Genomic Proteomic and Transcriptomics (2006)
International Conference on Computational Science 2006 (2006).
The 4th International Workshop on Challenges of Large Applications in Distributed Environments (2006)
The 5th International Conference on Grid and Cooperative Computing (2006)
International Workshop on High Performance Scientific and Engineering Computing (2006)
The 7th Workshop on Parallel and Distributed Scientific and Engineering Computing (PDSEC'06)
International Conference on Grid Computing and Applications (2006)
Computations in Bioinformatics and Bioscience (2006)
High Performance Computing Technology and Applications (2006);
Data, Signal, and Image Processing (2006);
Distributed Systems and Data Distributions (2006);
Network Security (NSNS'06); Service Computing and Grid Computing (2006);
Computer Graphics, Version, and Visualization (2006);
Wireless, Mobile, and Sensor Technology (2006);

Software and Software Engineering (2006)

Database Management and Information Systems (2006)

Algorithms, Numerical Methods, Simulations, Computations (2006)

Optimization and Artificial Intelligent and Neural Networks (2006)

Data Ming and Computations in Statistics (2006)

Computer System, Structure, and Architecture (2006)

Computations and Simulations in Mechanical Engineering (2006)

Internet Computing and Language Semantics, etc (2006)

ACM SIGGRAPH International Conference on Virtual Reality Continuum and Its Applications (2006)

The Second IEEE Workshop on High Performance Computing in Medical and Biology (2006)

International Conference of Computing in Nanotechnology (2006)

Second International Workshop on XML Technology and Applications (2006)

International Workshop on Computational Nano-Science and Technology (2006)

International Multi-symposium of Computer and Computational Sciences (2006)

Computational Nanotechnology with the Enhancement of High-Performance Computing (2006)

14th High Performance Computing Symposium (2006)

International Workshop on Web-based Internet Computing for Computational Science and Engineering (2006)

The 8th Asia Pacific Web Conference (2006)

2007

International Conference on Algorithms and Architectures for Parallel Processing (2007)

BioGrid Workshop, in conjunction with the 2007 IEEE CCGrid (2007)

IAENG International Conference on Computer Science (2007)

IEEE International Symposium on Bioinformatics and Life Science Computing (2007)

IEEE International Symposium on Bioinformatics and Life Science Computing (2007)

IFIP International Conference on Network and Parallel Computing (2007)

International Conference on Algorithms and Architectures for Parallel Processing (2007)

International Conference on Artificial Intelligence (ICAI|07) in conjunction with Worldcomp'07 (2007)

International Conference on Bioinformatics & Computational Biology (ICBCB|07) in conjunction with Worldcomp'07 (2007)

International Conference on Complex Open Distributed Systems (2007)

International Conference on Computational Science (2007)

International Conference on Computer Design (2007)

International Conference on Computer Graphics and Virtual Reality (2007)

International Conference on E-Learning, E-Business, Enterprise Information Systems, and E-Government (ICEEISG|07) in conjunction with Worldcomp'07 (2007)

International Conference on Embedded Systems & Applications (ICESA|07), in conjunction with Worldcomp'07 (2007)

International Conference on Foundations of Computer Science (ICFCS|07), in conjunction with Worldcomp'07 (2007)

International Conference on Genetic and Evolutionary Methods (ICGEM|07), in conjunction with Worldcomp'07 (2007)
International Conference on Grid Computing and Applications (GCA'07)
International Conference on Image Processing, Computer Vision, and Pattern Recognition (2007)
International Conference on Information & Knowledge Engineering (ICIKE|07), in conjunction with Worldcomp'07 (2007)
International Conference on Internet Computing (ICIC|07), in conjunction with Worldcomp'07 (2007)
International Conference on Multimedia Systems and Applications (ICMSA|07), in conjunction with Worldcomp'07 (2007)
International Conference on Parallel and Distributed Processing Techniques and Applications (2007)
International Conference on Scientific Computing (ICSC|07), in conjunction with Worldcomp'07 Les Vegas, June, 2007
International Conference on Semantic Web and Web Services (ICSEES|07), in conjunction with Worldcomp'07 (2007)
International Multi-Conference for Engineers and Computer Scientists (2007)
International Multi-symposium of Computer and Computational Sciences (2007)
International Workshop on High Performance Computing for Nano-science and Technology (HPCNano07), in conjunction with IEEE/ACM SC07, (2007)
Performance Computing Symposium (HPC 2007) in conjunction with the Spring Simulation Multi-conference 2007
Second International Workshop on Internet Computing for Sciences and Engineering (ICSE|07), in conjunction with (ICCS|07) (2007)
WSEAS International Symposium on Grid Computing (2007)
XMLTech07 (2007)

2008

IEEE International Conference on Parallel and Distributed Systems in Bioinformatics and Computational Biology
International Multi-symposium of Computer and Computational Sciences
HPC Nanotechnology
International Conference on Internet Computing in Science and Engineering
IEEE International Symposiums on Electronic Commerce and Security
ACM/IEEE International Workshop on Challenges of Large Applications in Distributed Environments
International Conference on Biocomputation, Bioinformatics, and Biomedical Technologies
International Conference on Computational Science
High Performance Computing and Simulation MultiConference
International Conference on BioMedical Engineering and Informatics
IEEE 8th International Conference on Computer and Information Technology
Systemics and Informatics World Congress
International Conference on Adaptive Business Systems
International Conference on Bioinformatics and Systems Biology
International Conference on Complex Open Distributed Systems
International Conference on Computer Systems Engineering
International Conference on Mobile Communications and Computing
International Conference on Networking and Internet Technologies
International Conference on Self-organization and Self-management in Computing and Communications

IFIP International Conference on Network and Parallel Computing

2009

The International Conference on Computational Science
High Performance Computing
Computer Applications Symposium, in World Congress on Computer Science and
Information Engineering
International Joint Conferences on Bioinformatics
Third International Conference on Complex Distributed Systems
The International Conference on Parallel Processing
The IAENG International Conference on Scientific Computing
The International Conference on High Performance Computing and Applications
The ACIS International Conference on Software Engineering Research,
Management and Applications
International Symposium on Optical Engineering and Photonic Technology
High Performance Graphics
IFIP International Conference on Network and Parallel Computing (NPC 2009)

Book Reviewer (23 books for 11 publishers)

Addison-Wesley Publishing Company (2000-2003) Computer Science I; Computer
Science II; Introduction to Java Programming; C# Programming; Fundamentals of
Modern Computer Science Using C#
McGraw-Hill Publishing (2001-2003) Java for Programmers; An Introduction to
Object-Oriented Programming with Java
Morgan Kaufmann Publishers (2001-2003) Parallel Programming
Scott/Jones Publishing Company (2002-2003) Advanced Java
CRC Press (2003-2004) Numerical Methods for Engineers
Franklin, Beedle & Associates Publisher (2004-2005) C# Programming
Blackwell Publishing Inc. (2003-2005) Bioinformatics and Computational Genomics;
Bioinformatics and Molecular Evolution; Bioinformatics
Prentice Hall Publishers (2001-2006) Introduction to Java; Computer Science I;
Computer Science II; Java Programming; C# Programming Language
Jones and Bartlett Publisher (2006) Programming and Problem Solving with Java
Artech House Publishers (2007) High performance computing for high-throughput
image reconstruction and analysis: intelligent microscopy applications
John Wiley & Sons, Inc. (2001-2007) Handbook of Computer Networks, Chapter:
Grid
Computing Implementation; Chapter: Utility Computing and Global Grids;
Encyclopedia of Computer Science; Data Structures Using C++

International Conference/Workshop Services

2003

General Chair/Co-Chair/Program Chair/Co-Chair

Grid (LSG), Medical Imaging Sub-committee, Global Grid Forum (GGF)
BOF Session/Workshop for Business Process Grid Working Group, Global Grid
Forum (GGF), Oct. 7, Chicago, 2003
Second International Workshop of Grid and Cooperative Computing 2003
(GCC2003), Shanghai, China, Dec. 7-10, 2003
BOF Session/Workshop for Business Process Grid Working Group, Global Grid
Forum (GGF), Oct. 7, Chicago, 2003, Subcommittee Leader, GGF Life Science

Program Committee Member

The 2003 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'03), The 2003 International Multi-conference in Computer Science & Computer Engineering Monte Carlo Resort, Las Vegas, Nevada, USA, June 23 - 25, 2003

2004

General Chair/Co-Chair/Program Chair/Co-Chair

International Workshop on Visualization and Visual Steering (VVS'04), in conjunction with GCC2004, Wu Han, China, Oct. 21-24, 2004

Session/Workshop of "Grid Computing Technology and Applications (GCTA04) in conjunction with the 2004 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'04), Las Vegas, Nevada, USA, June 21 - 24, 2004

the Third Workshop on Hardware/Software Support for High Performance Scientific and Engineering Computing, Antibes Juan-les-Pins, France, September 29-October 3, 2004

2004 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'04), Las Vegas, Nevada, USA, June 21 - 24, 2004

Program Committee Member

3rd International Conference on Grid and Cooperative Computing (GCC2004), Wu Han, China, Oct. 21-Oct. 24, 2004

International Conference on Bioinformatics and its Applications (ICBA'04), December 16-19, 2004, Nova Southeastern University, Fort Lauderdale, Florida, USA

International Symposium on Computational and Information Sciences, Shanghai, China (CIS'04), December 16 - 18, 2004

Second International Symposium on Parallel and Distributed Processing and Applications (ISPA'2004), Hong Kong, China, Dec. 13-15, 2004

the 4th International Conference on Computer and Information Technology (CIT2004), Wuhan, China, September 14-16, 2004

International Symposium on High Performance Computational Science and Engineering, (HPCSE-04), Toulouse, France, August 22-27, 2004

High Performance Computing and Applications (HPCA2004), Shanghai, China, August 8-10, 2004

International Conference on Virtual-Reality Continuum and its Applications in Industry (VRCAI 2004), NTU, Singapore, June 16-18, 2004

6th Workshop on High Performance Scientific and Engineering Computing, HPSEC-04, in conjunction with the 2004 International Conference on Parallel Processing (ICPP-04), Montreal, Canada, Aug. 15-18, 2004

Challenges of Large Applications in Distributed Environments 2004, CLADE 2004, in conjunction with HPDC, Honolulu, HI, USA, June 7, 2004

2005

General Chair/Co-Chair/Program Chair/Co-Chair

The IEEE/ACM International Workshop on High Performance Computing for Nano-science and Technology (HPCNano05), in conjunction with IEEE/ACM SC2005, Nov.12-18, Seattle, USA

International Workshop on Computational Nano-Science and Technology (CNST'05), Emory University Atlanta, USA, May 22-25, 2005, in the conjunction

with International Conference on Computational Science 2005, Emory University Atlanta, USA, May 22-25, 2005

Computational Methods for Medical Science, 17th IMACS World Congress Scientific Computation, Applied Mathematics and Simulation, Paris, France, July 11-15, 2005

2005 International Workshop on XML Technology (XML Tech'05), June 27-30, 2005, Monte Carlo Resort, Las Vegas, Nevada, USA

Session/Workshop of Grid Computing Technology and Applications (GCTA'05), in the conjunction with the 2005 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'05), Las Vegas, Nevada, USA, June 21 - 24, 2005

2005 International Conference on Grid Computing and Applications (GCA'05), June 21-24, 2005, Las Vegas, USA

Program Committee Member

IADIS Bioinformatics 2005 Conference with IADIS Virtual Multi Conference on Computer Science and Information Systems (MCCSIS 2005), 11 - 29 April 2005 HPCAsian2005, Nov. 30-Dec. 3, 2005, Beijing, China

Fourth International Conference on Grid and Collaborative Computing, GCC2005, Nov. 30-Dec 3, 2005, Beijing, China

Multi Conference on Computer Science and Information Systems (MCCIS 2005)

Third International Symposium on Parallel and Distributed Processing and Applications (ISPA'05) will be held in Nanjing, P.R. China, November 2-5, 2005

IEEE Workshop on High Performance Computing in Medicine and Biology (HiPCoMB-2005), in conjunction with The 11th International Conference on Parallel and Distributed Systems (ICPADS-05), July 20 - 22, 2005, Fukuoka Institute of Technology, Japan

Challenges of Large Applications in Distributed Environments 2004, CLADE 2005, in conjunction with HPDC, Challenges of Large Applications in Distributed Environments (CLADE'05) in conjunction with HPDC in Research Triangle Park, NC, in July 2005

International Workshop on Bioinformatics and Application, Emory University Atlanta, USA, May 22-25, 2005, in the conjunction with International Conference on Computational Science 2005, Emory University Atlanta, USA, May 22-25, 2005

High Performance Computing Symposium (HPC 2005), in the conjunction with the Spring Simulation Multi-conference 2005, San Diego, California, USA, April 2-8, 2005

2005 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'05), Las Vegas, Nevada, USA, June 21 - 24, 2005

Third International Conference on Information Technology and Applications, July 4-7, 2005, Sydney, Australia

Seventh Asia Pacific Web Conference (APWeb'05), Shanghai, China, March 29-April 1, 2005

2006

General Chair/Co-Chair/Program Chair/Co-Chair

The IEEE/ACM International Workshop on High Performance Computing for Nano-science and Technology (HPCNano06), in conjunction with IEEE/ACM SC2006, November, 2006, Tampa, Florida, USA

2006 International Conference on Grid Computing and Applications (GCA06), in conjunction with The 2006 World Congress in Computer Science, Computer

Engineering, and Applied Computing , June 26-29, 2006 Las Vegas, Nevada, USA

Computations in Bioinformatics and Bioscience (SCBB|06), in conjunction with IMSCCS|06

High Performance Computing Technology and Applications (HPCTA|06) in conjunction with IMSCCS|06

Data, Signal, and Image Processing (DSIP|06) in conjunction with IMSCCS|06

Distributed Systems and Data Distributions (DSDD|06) in conjunction with IMSCCS|06

Network Security (NSNS|06) in conjunction with IMSCCS|06

Service Computing and Grid Computing (SCGC|06) in conjunction with IMSCCS|06

Computer Graphics, Version, and Visualization (CGVV|06) in conjunction with IMSCCS|06

Wireless, Mobile, and Sensor Technology (WMST|06) in conjunction with IMSCCS|06

Software and Software Engineering (SSSE|06) in conjunction with IMSCCS|06

Database Management and Information Systems SDMIS|06) in conjunction with IMSCCS|06

Algorithms, Numerical Methods, Simulations, Computations (ANSC|06) in conjunction with IMSCCS|06

Optimization and Artificial Intelligent, and Neural Networks (OAIN|06) in conjunction with IMSCCS|06

Data Mining and Computations in Statistics (DMCS|06) in conjunction with IMSCCS|06

Computer System, Structure, and Architecture (CSSA|06) in conjunction with IMSCCS|06

Computations and Simulations in Mechanical Engineering (CSME|06) in conjunction with IMSCCS|06

Internet Computing and Language Semantics, etc (ICLS|06) in conjunction with IMSCCS|06, 2006

2006 International Conference of Computing in Nanotechnology (CNAN06) in conjunction with The 2006 World Congress in Computer Science, Computer Engineering, and Applied Computing, June 26-29, 2006, Monte Carlo Resort, Las Vegas, USA

Second International Workshop on XML Technology and Applications (XML Tech'06), June 26-29, 2006, Monte Carlo Resort, Las Vegas, Nevada, USA

International Multi-symposium of Computer and Computational Sciences (IMSCCS06), Zhejiang University, Hangzhou, China, June 202-24, 2006

Computational Nanotechnology with the Enhancement of High-Performance Computing at the 7th World Congress on Computational Mechanics (WCCM VII), which will be held in Los Angeles, California, July 16-22, 2006

International Workshop on Web-based Internet Computing for Computational Science and Engineering (ICSE'06), in conjunction with APWeb'06, the 8th Asia Pacific Web Conference, January 16-18, 2006 in Harbin, China

International Workshop on Computational Nano-Science and Technology (CNST'06), in the conjunction with International Conference on Computational Science (ICCS 2006), University of Reading, UK, May 28-31, 2006

Program Committee Member

IEEE/ACM SC2006, November 2006, Tampa, Florida, USA

First Workshop on High Performance Computing in Genomic Proteomic and Transcriptomic, held in conjunction with The International Symposium on Parallel

and Distributed Processing and Applications (ISPA 2006) in Sorrento, Italy, December 1-4, 2006
International Conference on Computational Science 2006 (ICCS|06), University of Reading, UK, May 28-31, 2006.
4th International Workshop on Challenges of Large Applications in Distributed Environments (CLADE06) in conjunction with the 15th International Symposium on High Performance Distributed Computing (HPDC-15) on June 2006 in Paris, France
5th International Conference on Grid and Cooperative Computing (GCC2006), Oct. 21-23, Changsa, China
International Workshop on High Performance Scientific and Engineering Computing (HPSEC06)," (held in conjunction with the International Conference on Parallel Processing – ICPP06)
7th Workshop on Parallel and Distributed Scientific and Engineering Computing (PDSEC'06) at IPDPS 2006
ACM SIGGRAPH International Conference on Virtual Reality Continuum and Its Applications VRCIA 2006, June 14-17, Hong Kong
The Second IEEE Workshop on High Performance Computing in Medical and Biology (HiPCoMB-2006), Vienna University of Technology, Vienna, Austria
14th High Performance Computing Symposium (HPC) 2006 with the 2006 Spring Simulation Multi-conference, April 2-6, 2006 – Huntsville AL, US
8th Asia Pacific Web Conference (APWeb'06), 16-18 January 2006 in Harbin, China

2007

General/Program Chair/Co-Chair

IEEE 7th Symposium on Bioinformatics & Bioengineering (BIBE07) Cambridge - Boston, Massachusetts, USA, October 15-17, 2007
The 2007 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'07)
The 2007 International Conference on Grid Computing and Applications (GCA'07)
The 2007 International Conference on Computer Design (CDES'07)
The 2007 International Conference on Image Processing, Computer Vision, and Pattern Recognition (IPCV'07)
The 2007 International Conference on Computer Graphics and Virtual Reality (CGVR'07)
The 2007 International Conference on Multimedia Systems and Applications (MSA'07)
IAENG International Conference on Computer Science (IAENG, ICCS'07), Hong Kong, March 21-23, 2007
International Multi-symposium of Computer and Computational Sciences (IMSCCS|07), Iowa City, Iowa, USA
The Second International Workshop on Internet Computing for Sciences and Engineering (ICSE|07), in conjunction with (ICCS|07), Beijing, May 2007
Program Committee Member
2007 International Conference on Complex Open Distributed Systems (CODS'2007)
Chengdu, China, 22-24 July 2007
7th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP'07, Wuhan, China
XMLTech07, June 26-29, 2007 Las Vegas, Nevada, USA

The 2007 IEEE International Symposium on Bioinformatics and Life Science Computing (BLSC-07) May 21-23, 2007, Ontario, Canada
2007 IFIP International Conference on Network and Parallel Computing (NPC 2007), September 18-21, 2007, Dalian, China
International Multi-Conference for Engineers and Computer Scientists (IMECS 2007), Hong Kong, March 21-23, 2007
7th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2007) will be held in Hangzhou, China, June 11-14, 2007
2007 BioGrid Workshop, in conjunction with the 2007 IEEE CCGrid, Rio de Janeiro, Brazil, May 14-17, 2007
Performance Computing Symposium (HPC 2007) in conjunction with the Spring Simulation Multi-conference 2007 on March 26-29, 2007 in Norfolk, VA, USA
International Conference on Computational Science 2007 (ICCS|07), Beijing, in May 2007
The IEEE/ACM International Workshop on High Performance Computing for Nano-science and Technology (HPCNano07), in conjunction with IEEE/ACM SC07, November, 2007 Reno, USA

2008

General/Program Chair/Co-Chair/Vice-chair/Publicity Chair

IEEE International Conference on Bioinformatics and Bioengineering, Oct 8-10, 2008, Athens, Greece (BIBE'08)
The 14th IEEE International Conference on Parallel and Distributed Systems in Bioinformatics and Computational Biology (ICPADS'08)
International Multi-symposium of Computer and Computational Sciences (IMSCCS'08), Shanghai Jiaotong University _Medical School, Shanghai, China
HPC Nanotechnology 2008 (HPCNano'08), in IEEE/CS Supercomputing (SC'08), Austin, Texas, Nov. 12-16, USA)
International Conference on Internet Computing in Science and Engineering (ICICSE'08), Harbin, China, Jan. 28-29, 2008
IEEE International Symposiums on Electronic Commerce and Security 2008, Aug. 2008

Program Committee

3rd International Conference on Bio inspired Models of Network, Information and Computing Systems (BIONETICS'08), Awaji Island, Hyogo, Japan, Nov 25-28, 2008
The 6th ACM/IEEE International Workshop on Challenges of Large Applications in Distributed Environments (CLADE'08)
International Conference on Biocomputation, Bioinformatics, and Biomedical Technologies (Biotechno'08), June 29 - July 5, 2008 - Bucharest, Romania
International Conference on Computational Science (ICCS'08), Kraków, Poland June 23-25, 2008
High Performance Computing and Simulation (HPCS'08), in the SCS Spring Multi-conference, April 14-16, 2008, Crowne Plaza Ottawa, Ottawa, Ontario, Canada
International Conference on BioMedical Engineering and Informatics (BMEI'08) on May 28-30, 2008, Sanya, Hannan, China
IEEE 8th International Conference on Computer and Information Technology, University of Technology, Sydney, Australia, July 8-11, 2008
Systemics and Informatics World Congress (SIWN'08), Glasgow, UK, 21-24 July 2008

2nd International Conference on Complex Distributed Systems (CODS'08) ,
Glasgow, UK, 21-24 July 2008
International Conference on Adaptive Business Systems (ABS'08), Glasgow, UK,
21-24 July 2008
International Conference on Bioinformatics and Systems Biology (BSB'08),
Glasgow, UK, 21-24 July 2008
International Conference on Computer Systems Engineering (CSE'08), Glasgow,
UK, 21-24 July 2008
International Conference on Mobile Communications and Computing (MCC'08),
Glasgow, UK, 21-24 July 2008
International Conference on Networking and Internet Technologies (NIT'08),
Glasgow, UK, 21-24 July 2008
International Conference on Self-organization and Self-management in
Computing and Communications (SSCC'08), Glasgow, UK, 21-24 July 2008
IFIP International Conference on Network and Parallel Computing (NPC'08),
Shanghai, China
The 7th International Conference on Grid and Cooperative Computing,
GCC2'08, Shenzheng, China, Oct. 24-26, 2008

2009

General/Program Chair/Co-Chair/Vice-chair/Track/Session/Publicity Chair

NSF Workshop on Petascale computing for Nanoscience and Nanotechnology,
University of Illinois, Urbana-Champaign, NCSA, Spring 2010

[HPC Nanoscience and Nanotechnology](#), in IEEE/CS Supercomputing (SC'09),
Portland, Oregon, Nov. 14-20, USA

[The Fourth International Conference on Internet Computing in Science and
Engineering](#) (ICICSE'09), Harbin Engineering University, Harbin, Dec. 2009,
China

Co-Chair of Track of "Bioinformatics and Bio-Inspired Computing," The 5th
International Conference on Future Information Technology (FutureTech 2010),
May 21-23, 2010, in Jeju, Korea

Program Committee

The International Conference on Computational Science 2009 (ICCS 2009), Center
for Computation & Technology at Louisiana State University in Baton Rouge,
Louisiana, U.S.A.

High Performance Computing 2009 (HPC), Part of the 2009 Spring Simulation
Multi-conference (SpringSim'09), the Society for Modeling and Simulation
International (SCSI), March 22 - 27, 2009, San Diego, CA, USA

Computer Applications Symposium, in World Congress on Computer Science and
Information Engineering (CSIE'09), March 31 - April 2, 2009, Los Angeles/Anaheim,
USA

International Joint Conferences on Bioinformatics, Systems Biology and
Computational Intelligent (IJCBS) August 3-6, 2009, Tongji University, Shanghai,
China

Third International Conference on Complex Distributed Systems (CODS 2009)
March 2009 in Leipzig, Germany

The 38th International Conference on Parallel Processing (ICPP'09), Vienna,
Austria, September 22-25, 2009

The IAENG International Conference on Scientific Computing, Hong Kong,
March 18-20, 2009

The 2009 International Conference on "High Performance Computing and Applications"(HPCA2009), Shanghai University, Shanghai, China
The 7th ACIS International Conference on Software Engineering Research, Management and Applications, SERA2009 is to be held on December2-4, 2009 in Haikou, Hainan Islands, China
International Symposium on Optical Engineering and Photonic Technology: OEPT 2009, in the context of the 2nd International Multi-Conference on Engineering and Technological Innovation: IMETI 2009, July 10th - 13th, 2009 – Orlando, Florida, USA
High Performance Graphics 2009, New Orland Louisiana, Aug. 1-3, 2009
IFIP 6th IFIP International Conference on Network and Parallel Computing (NPC 2009), Oct. 19-21, Gold Coast, Australia
High Performance Medical Imaging (HPMI2009), Orlando, Florida, USA

2010

General/Program/Session Chair

NSF Workshop on Computational Nanoelectronics, University of Iowa, summer, 2010
NSF Workshop on Cyberinfrastructure (CI)-based Emerging Models and Petascale Computing for Nanoscience and Nanotechnology, UIUC-NCSA, summer, 2010
International Conference on Internet Computing in Science and Engineering (ICICSE'10), 2010
The Fifth International Conference on Internet Computing in Science and Engineering (ICICSE'10), Harbin Engineering University, Harbin, Dec. 2010, China
Track/Session: BIT's 3rd World Cancer Congress-Inaugurate Conference, Shanghai, China, April 25-27, 2010
The Sixth International Multi-Symposium on computer and computational sciences (IMSCCS2010), University of Iowa, Iowa City

Program Committee

The IAENG International Conference on Scientific Computing, Hong Kong, March 17-19, 2010
International Conference on Computational Science, Amsterdam, Netherlands on May 31 - June 2, 2010

Association Memberships

American Association for the Advancement of Science (AAAS), Member
Society for Imaging Informatics in Medicine (SIIM), Member
Radiology Society of North American (RSNA), Associate Member
Institute of Electrical and Electronics Engineers (IEEE), Member
IEEE Computer Society (IEEE/CS), Member
Federation of American Scientists (FAS), Member
American Society of Mechanical Engineering (ASME), Member

B. Clinical assignments since last promotion (if applicable)

N/A