

PERSONAL INFORMATION

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sageli@126.com (China)**Mobile:** 319-383-6670 (USA); 13916355540 (China)**Citizenship:** USA**Personal Web site:** www.medixcomputing.com/jni/**EDUCATION**

Department of Mechanical Engineering The University of Iowa, Iowa City, IA, USA	1987-1991
Department of Power Machinery Engineering Shanghai Jiaotong University, Shanghai, China	1982-1984
Department of Naval Architecture Harbin Engineering University, China BS in Naval Architecture	1978-1982

WORKING EXPERIENCES

Founder and President MediXComputing LLC and DerKing Institute of Sciences and Technology Iowa City, IA, USA	2014-present
Founder and President STEM Education Society, a Non-profit Organization to Promote STEM Iowa City, IA, USA	2005-Present
Visiting Professor and PhD Advisor in Business Data Analysis The International Joint DMA Program with University of Otago New Zealand Oversea Education College, Shanghai Jiaotong University, Shanghai, China	2016-2018
“Lan Yue Scholar” University Honorable Visiting Professor School of Biomedical Engineering Hebei University of Science and Technology Xian Ning, Hebei, China	2016-2018
“Shanghai Oversea Outstanding Scholar” Chair Professor and Director Sanda-IBM Big Data and Informatics Lab, School of Information Science and Technology Sanda University, Shanghai, China	2012-2018
Associate Professor and Director Medical Imaging HPC & Informatics Lab Department of Radiology, Carver College of Medicine The University of Iowa, Iowa City, IA, USA	2007-2015

Curriculum Vitae/Resume	Jun Ni	July 10, 2017
Affiliated Associate Professor in Interdisciplinary Graduate Program in Informatics, Graduate College Department of Mechanical Engineering, Department of Biomedical Engineering, College of Engineering The University of Iowa, Iowa City, IA, USA		2007-2015
Visiting Professor and PhD Advisor, Nanjing University of Sciences and Technology, Nanjing, China		2012-2014
Visiting Senior Advisor Zhao-Ming Cloud Computing Science and Technology, Shanghai, China		2012-2014
Visiting General Manager Zhong-He-Chang-Sheng Science and Technology, Beijing, China		2012-2014
Senior Visiting Advisor China Space Science and Technology Group, Beijing, China		2010-2012
Adjunct Associate Professor in Department of Computer Science The University of Iowa, Iowa City, IA, USA		2007-2012
Visiting Professor and PhD/MS Advisor College of Computer Science and Technology, Harbin Engineering University, Heilongjiang, China		2006-2012
Visiting Professor, College of Computer Science and Technology, Shanghai University, Shanghai, China		2008-2011
Research Scientist and Manager in University Research Computing Services Information Technology Services The University of Iowa, Iowa City, IA, USA		2005-2010
Research Fellow National Center for Supercomputing Applications (NCSA) University of Illinois at Urbana- Champaign, Urbana- Champaign, USA		2008
Adjunct Associate Professor Department of Mechanical & Industrial Engineering, College of Engineering The University of Iowa, Iowa City, IA, USA		2005-2006
Associate Research Scientist and Manager in University Research Computing Services Information Technology Services The University of Iowa, Iowa City, IA, USA		2002-2005
Adjunct Assistant Professor Departments of Mechanical & Industrial Engineering, Department of Computer Science The University of Iowa, Iowa City, IA, USA		1994-2005
Visiting Professor/Visiting Research Scientist College of Life Science College of Computer Science Shanghai Jiaotong University, Shanghai, China		2003-2005

Senior Computing Consultant Advanced Research Computing Service, Weeg Computing Center The University of Iowa, Iowa City, IA, USA	1994-2002
Postdoctoral Research Associate Heat Transfer Lab, School of Mechanical Engineering Purdue University, West Lafayette, IN, USA	1993-1994
Postdoctoral Research Associate Speech Pathology and Audiology Department of Mechanical Engineering The University of Iowa, Iowa City, USA	1992-1993
Research Assistant/Teaching Assistant Department of Mechanical Engineering The University of Iowa, Iowa City, IA, USA	1987- 1991
Lecturer and Research Associate Department of Power Machinery Engineering Shanghai Jiao Tong University, Shanghai, China	1984- 1986

RESEARCH GRANTS

PI, Development of Education Programs in Informatics and Big Data Phase-Phase II Shanghai Municipal Education Committee: Shanghai Oversea Outstanding Scholar Research Grant Shanghai Sanda University, Shanghai, China	2015-2016
PI, Development of Education Programs in Informatics and Big Data Phase-Phase I Shanghai Municipal Education Committee: Shanghai Oversea Outstanding Scholar Research Grant Shanghai Sanda University, Shanghai, China	2014-2015
PI, Healthcare Big Data Processing and Mining Project Shanghai Municipal Education Committee: Research Grant Shanghai Sanda University, Shanghai, China	2012-2015
PI, HPC-enhanced Simulation of Bio-Nanostructured Materials Formation Using Molecular Dynamics Shanghai Municipal Education Committee: Education Innovation Research Grant Shanghai Sanda University, Shanghai, China	2014-2015
PI, Development of Sanda-IBM (China) joint Big Data Research Lab Shanghai Education Non-Government Higher Education Institutional Education Grant Shanghai Sanda University, Shanghai, China	2014-2015
PI, A Merging Multi-scale Model for Simulations of Crystallization and Solidification of Nano-structured Materials on Large-scale Parallel Computing Systems USA National Science Foundation The University of Iowa, Iowa City, IA, USA	2012

- PI, Workshop on Cyberinfrastructure (CI)-based Emerging Models 2009-2012
Solidification of Nano-structured Materials on Large-scale Parallel Computing Systems
USA National Science Foundation
The University of Iowa, Iowa City, IA, USA
Responsibility: Principle Investigator
- PI, Workshop on Emerging Models Technologies for Computations in Nano-electronics 2008-2012
Solidification of Nano-structured Materials on Large-scale Parallel Computing Systems
USA National Science Foundation
The University of Iowa, Iowa City, IA, USA
Responsibility: Principle Investigator
- PI, Windows HPC Server- enabled Computing Infrastructure for Medical Imaging 2010
Microsoft
The University of Iowa, Iowa City, IA, USA
- Participant, Summer Program on Nano-mechanics, Nanomaterials and Micro/Nano-manufacturing 2009
USA National Science Foundation
Northwestern University, Evanston, IL, USA
- PI, Develop an Emerging Model for Computations in Biological Nanoelectronics Devices 2008-2009
University of Iowa Research Grant (UI-ICU)
The University of Iowa, Iowa City, IA, USA
- PI, A Large-scale Parallel Katsevich Algorithm for 3D 2006-2008
Cone-beam CT Image Reconstruction
USA National Institute of Health
The University of Iowa, Iowa City, IA, USA
- PI, Medical Imaging HPC and Large-scale Biomedical Imaging Informatics 2007
USA Microsoft
The University of Iowa, Iowa City, IA, USA
- PI, HPC Hardware Solution for Medical Imaging and Informatics 2006
USA Intel Inc.
The University of Iowa, Iowa City, IA, USA
- Co-PI, Harnessing the Spin-Stabilized Motion of 2005-2007
USA-NSF: A Multi-walled Carbon Nanotube for Memory-cell Operation
The University of Iowa, Iowa City, IA, USA
- Co-PI, Establishing a Compact Muon Solenoid Grid-based Tier-2 2004-2005
UI Research Grant: National Computing Center and NSF Shared Cyber-infrastructure Tier-2C Program
University of Iowa Research Grant
The University of Iowa, Iowa City, IA, USA
- Co-PI, Finding Genes Responsible for Continuous Traits: A Computer Program 2004-2005
University of Iowa Research Grant

The University of Iowa, Iowa City, IA, USA

- Co-PI, Prototyping, Testing, and Operating an Intra-campus Research Grid 2004-2005
 University of Iowa Research Grant
 The University of Iowa, Iowa City, IA, USA
- PI, National TeraGrid --Computation in Transport Phenomena during Material Processing 2004-2005
 USA National Science Foundation
 The University of Iowa, Iowa City, IA, USA
- PI, NCSA Small Allocation Application Grant 2003
 USA National Science Foundation
 The University of Iowa, Iowa City, IA, USA
- PI, Lattice Boltzmann Simulation of Fluid under Grid Computing Environment 2002-2003
 University of Iowa Research Grant
 The University of Iowa, Iowa City, IA, USA
- Co-PI, A Prototype of Genetics Likelihood Visualization Utility 2002-2003
 University of Iowa Research Grant
 The University of Iowa, Iowa City, IA, USA
- Co-PI, the Development of a Proof-of-Concept Physics Grid Tier-2 Center 2002-2003
 University of Iowa Research Grant
 The University of Iowa, Iowa City, IA, USA
- Co-PI, Sedimentation by Dripping Instability in Viscous Fluids in Geophysical System 2003
 USA National Science Foundation
 The University of Iowa, Iowa City, IA, USA
- PI, Database Management System for Equipment Storage Management in Petroleum Industrial 1985-1986
 Da-Gang Petrologic Industrials Inc., Hebei Province, China
 Shanghai Jiaotong University
- Co-PI, Hydraulic Transmission for Energy Saving Systems in 1983-1986
 Shanghai Science & Technology Committee Research Grants, Several Steel Foundries, Textile Co., and
 Mine Industrials, Industrial R&D Saving Energy Grants
 Shanghai Jiaotong University

TEACHING AND TRAINING EXPERIENCES

University/College-based Credit Courses in Computer Science and Information Technology

- College of Information Science and Technology, Shanghai Sanda University, China
 Digital Image Processing and Analysis with Matlab (2016), LINUX Operating System (2016);
 C Programming Language (2015); Special English used in Computer Science (2017, 2015);
 Big Data Systems Architecture, Cloud Computing and Applications (2014); Introductions to
 Systems of Systems (2013)
- Department of Computer Science, The University of Iowa, USA

Computer Science I; Computer Science II; Algorithms; Data Structure in C/C++; C Programming Language; C++ Programming Language; C# Programming Language; Database Management Systems; Distributed Computing; Parallel Computing; Grid Computing; Individual Programming Project

- Division of Computer Education, Kirkwood Community College, USA
C Programming Language, Java Programming Language; JavaScript for Dynamic Web Design;
- International Invited Course Program, National Defense of Science and Technology, China
Implementation and Applications (Summer of 2014)

University-based Credit Courses in Medical and Biomedical Informatics

- College of International Medical Technology, Shanghai Sanda University
Nursing Informatics (2016, 2017)
- Carver College of Medicine, The University of Iowa, USA
Radiology Informatics/Medical Imaging Informatics (2007-2015)
- Hubei University of Science and Technology, China
Bio/physiological Biotransport Phenomena (2017), Computational Cancer Dynamics (2017)

University-based Credit Courses in Business Administration

- Business and Administration Education Programs for CEOs, Shanghai Jiaotong University, College of Oversea Education
Big Data for Business Decision Making (2016, 2017); Big Data Analysis in Enterprise Workflow (2016); Big Data Analysis in Tax Accounting (2016)

University Credit Courses in Mechanical Engineering

- Department of Mechanical Engineering, The University of Iowa, USA
Numerical Calculation in Engineering (1994-2007); Fundamentals of Heat and Mass Transfer (2010); Intermediate Heat Transfer, Thermodynamics;
- Department of Power Machinery Engineering, Shanghai Jiaotong University, China
Power Machinery Propulsion Systems; Engineering Mathematics; FEM and BEM; Deformed Body; Continues Mechanics (1983-1986)

Training Short Courses in Scientific Computing (1994-2010)

High Performance Computing and Parallel Computing, Introduction to MPI; Supercomputing; Fortran 90/95; High Performance Fortran; Multiprocessing; Timing and Optimizing in HPC; Computational Chemistry; Gaussian95/98; Parallel Programming with PVM; Scientific Data Visualization; OpenGL; Introduction to C; Advanced C; VRML; JavaScript; How to Build a LINUX Cluster for Parallel Computing, Technical Skills in Scientific Computing for Bioinformatics

Mentor of Summer Student Education Program 2007-2010

CIC/the University of Iowa Summer Research Opportunities Program (SROP)
NSF-sponsored Research Experiences for Undergraduates (REU) in Nano-science and Nanotechnology

PUBLICATIONS

Refereed Journal Papers (50) (30 SCI and/or 9 EI indexed and 9 Chinese Science/Technology Core Journals)

- [1] Jun Ni and Christoph Beckermann, "A Volume Averaged 2-Phase Model for Transport Phenomena during Solidification," *Metall. Trans. B*, Vol. 22B, pp. 349-361, June, 1991, DOI: 10.1007/BF02651234 (**SCI Index IDS Number: FP177; Citation 315**)
- [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, DOI: 10.1115/1.2911201 (**SCI Index IDS Number: HP761; Citation 35**)
- [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, 10.1016/0735-1933(96)00017-6 (**EI index number: 1996263160025**)
- [5] Jun Ni and Christoph Beckermann, "Metal two-phase flow numerical simulation," *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, DOI: 10.1016/0017-9310(94)00236-O (**SCI Index IDS Number: QN473; Citation 45**)
- [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, DOI: 10.1016/0017-9310(94)00237-P (**SCI Index IDS Number: QN473; Citation 63**)
- [8] Kent Lee, Jun Ni, Tom Halverson, Eric Van Wyk, and Judith Brown, "Is MVE the Right Environment for Your Visualization Application," *ACM 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, DOI: 10.1016/0735-1933(96)00017-6 (**SCI Index IDS Number: UD736; Citation 5**)
- [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, DOI: 10.1016/S0301-9322(98)00050-0 (**SCI Index IDS Number: 181RH; Citation 33**)
- [11] 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 (**SCI Index IDS Number: BAC96; Citation: 3**)
- [12] Jun Ni, Tao He, Lili Huang, Shaowen Wang, Boyd Knosp, and C Lin, "Distributed Computation for Diffusion Problem in a P2P-Enhanced Computing System," *Lecture Note in Computer Science*, Volume 3032, pp. 428 – 435, 2004, Springer-Verlag Heidelberg, 2004 (**SCI Index IDS Number: BAC96**)
- [13] Jun Ni, Tao He, Xiang Li, Shaowen Wang, Ge Wang, "EM Medical Image Reconstruction in a Peer-to-Peer Systems," *Lecture Note in Computer Science*, Volume, Vol. 3251, pp 495-501, Springer-Verlag Heidelberg, Germany, 2004 (**SCI Index IDS Number: BBE85; Citation: 3**)
- [14] Xiaoxu Han, James Cremer, Zhihong Wang, Jun Ni, "A Hybrid Algorithm of Local Ray-casting and Z-buffering for Large Geometric Datasets," *Lecture Note in Computer Science*, Vol. 3252, pp 720-727, Springer, 2004 (**SCI Index IDS Number: BBD88**)
- [15] Shaowen Wang, Shaoping Xiao, and Jun Ni, "A Grid-based Bridging Domain Multiple-scale

- Method for Computational Nanotechnology,” *Lecture Note in Computer Science*, vol. 3516, pp. 326, Springer, 2005 (**SCI index IDS Number: BCM77**)
- [16] 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, 4, 30 (2005) 63-72 (**SCI Index IDS Number: V43XW, Citation: 7**)
- [17] 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 Index IDS Number: 085PO; Citation: 9**)
- [18] Longde Yin, Chun-Hsi Huang, Jun Ni, “Clustering of Gene Expression Data: Performance and Similarity Analysis,” *BMC Bioinformatics*, 2006, 7 (Suppl 4): S1, DOI: 10.1186/1471-2105-7-S4-S19 (**SCI Index IDS Number: 144IL, Citation: 13**)
- [19] Youping Deng, Jun Ni and Chaoyang Zhang, “Development of computations in bioscience and bioinformatics and its application,” *BMC Bioinformatics*, 2006, 7 (Suppl 4): S19, DOI: 10.1186/1471-2105-7-S4-S1 (**SCI Index IDS Number: 144IL, Citation: 1**)
- [20] Jun Ni, Xiang Li, He Tao, Ge Wang, “Review of Parallel Computing Techniques for Computed Tomography,” *Current Medical Imaging Reviews*, 2006, Vol. 2, No. 4, pp. 405-414, Bentham Science Publishers, DOI: 10.2174/157340506778777097 (**SCI Index IDS Number: 106JZ; Citation: 6**)
- [21] Tianyou Wang and Jun Ni, “Speedup Analysis for Parallel Implementation of Model of Response Accuracy and Response Time in Computerized Testing,” ICCS 2007, Part III, *Lecture Note in Computer Science*, Vol. 4489, pp. 34-41, Springer, 2007 (**SCI Index IDS: BGH50**)
- [22] Ying Chen, Chun Zhang, Jia-dong Wang, Zhu-lin Gong, Jun Ni, Lu Zhang, “A Data model applied to the knowledge-based ICAS,” *Journal of Shanghai Jiaotong University (Science)*, Vol.13 E, No. 5, p 595-599, October 2008, SJTU Press 2008, 13(5): 595-599 (**Ei index Number: 20084811750270**)
- [23] Hiroyuki Mishima, Andrew C. Lidral, and Jun Ni, “Application of the Linux cluster for exhaustive window haplotype analysis using the FBAT and Unphased programs,” *BMC Bioinformatics* 2008, 9 (Suppl 6): S5, 2008, DOI: 10.1186/1471-2105-9-S6-S10 (**SCI Index IDS Number: 345UW; Citation: 2**)
- [24] 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, DOI: 10.1186/1471-2105-9-S6-S1, (**SCI Index IDS Number: 345UW, Citation: 2**)
- [25] 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, DOI: 10.1186/1471-2105-9-S6-S5 (**SCI index IDS Number: 345UW, Citation 7**)
- [26] 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*, Vol. 5, pp. 528-534, 2008 (**SCI Index IDS Number: 296MI, Citation 1**)
- [27] Shaoping Xiao, Jun Ni, Shaowen Wang, “The Bridging Domain Multiscale Method and its High Performance Computing Implementation,” *Journal of Computational and Theoretical Nanosciences*, Vol. 5, No. 7, pp. 1220-1229, 2008, DOI: 10.1166/jctn.2008.004 (**SCI Index IDS Number: 376VF, Citation 2**)
- [28] Yanbo Li, Guisheng Yin, Jing Zhang, Jun Ni, “Algorithm of soft tissue self-collision detection based on potentially colliding set for virtual surgery,” *J. of Computer Applications*, 2009, 29(08) 2101-2104

- [29] Junjun Deng, Hengyong Yu, Jun Ni, Lihe Wang, and Ge Wang, "Parallelism_of_iterative_CT_reconstruction_based_on_local_reconstruction_algorithm," *Journal of Supercomputing*, Springer, Vol. 48, pp. 1-14, 2009, DOI: 10.1007/s11227-008-0198-9 (**SCI Index IDS Number: 411XL, Citation 2**)
- [30] Xiupeng Wei, Shaoping Xiao, Jun Ni, "Studies of ice melting using molecular dynamics," *Molecular Simulations*, Taylor and Francis Ltd, 29 Mar 2010 16:30, pp. 823-830 DOI: 10.1080/08927021003774287 (**SCI Index IDS number: 676DE, Citation 1**)
- [31] Yanbo Li, Guisheng Yin, Jing Zhang, Changming Zhu, Jun Ni, "An improved method of soft tissue modeling based on Delaunay tetrahedralization," *Journal of Computer-Aided Design and Computer Graphics*, Vol. 22, No. 12, p 2119-2124, December 2010 (**Ei Index: 20110113551151**)
- [32] Yongqiang Zhao, Minglu Li, Jun Ni, "Adaptive coupled diffusion model for vessel image enhancement," *International Journal of Computational Science and Engineering*, v 6, n 3, p 160-167, August 2011, DOI: 10.1504/IJCSE.2011.042018 (**Ei index: 20113514269993**)
- [33] Jun Ni, Junjun Deng, Tao He, Hengyong Yu, Ge Wang, "Speedup performance analysis of parallel Katsevich algorithm for 3D CT image reconstruction," *Int. Journal on Computational Science and Engineering*, Inderscience Publisher Vol. 6, No. 3, 2011, pp. 151-159, DOI: 10.1504/IJCSE.2011.042018 , (**Ei Index number: 20113514269992**)
- [34] Yanbo Li,, Guisheng Yin, Tianchi Zhang, Jun Ni, "Hybrid Sliver Elimination Algorithm for Delaunay Tetrahedral Models," *Journal of Computational Information Systems*, Vol. 7, No. 10, p 3722-3729, October 2011 (**Ei Index number: 20114114416679**)
- [35] Changming Zhu, Haibo Liu, Jing Shen, Jun Ni, Guochang Gu, and Yanbi Li, "Virus-evolutionary Discrete Differential Evolution Algorithm for Knapsack Problem," *ICIC Express Letters, An International Journal of Research and Surveys*, Vol. 5, No. 6, June 2011, pp. 2035-2040 (**Ei index number: 20112113999810**)
- [36] Changming Zhu, Haibo Liu, Jing Shen, Guochang Gu, Jun Ni, Yanbo Li, "Images Segmentation with Improved PCNN by Differential Evolution," *ICIC Express Letters*, Vol. 5, No. 3, pp. 713-717, March 2011 (**Ei index number: 20110813684364**)
- [37] Hualong Yu, Jun Ni, Yuanyuan Dan, Sen Xu, "Mining and Integrating Reliable Decision Rules on Imbalanced Cancer Gene Expression Data Sets," *Tsinghua Science and Technology*, Vol. 17, No. 6, Dec. 2012, pp.666-673, IEEE Press, DOI: 10.1109/TST.2012.6374368 (**EI Index number: 20131716229752**)
- [38] Jing Li, Jing Zhang, Jun Ni, Jianhua Wang, "Analysis of Protein Folding using Search-based Algorithms," *Journal of Computational Information Systems*, 8: 1 (2012) Vol. 8 (16) : pp. 6871-6878 (**EI index number: 20123915472552**)
- [39] Shaoping Xiao, Xiupeng Wei and Jun Ni, "Ice Melting Speeds at Various Scales," *Advanced Science Letters*, Volume 17, No. 1, pp. 172-178, 2012
- [40] Gui - sheng Yin, Yan - Bo Li, Jing Zhang, Changming Zhu, Jun Ni, "Relationship between quality measures criterion of tetrahedral mesh," *Chinese Journal of Computational Mechanics*, Vol . 29, No. 1, February 2012 (in Chinese)
- [41] Yu, Hua-long, Ni, Jun, Xu, Sen, "Pre-evaluation Strategy of Harmfulness Caused by Class Imbalance Based on Leave-one-out Cross Validation," *J. of Chinese Computer Systems*. 2012, 33(10): 2287-2292
- [42] Guisheng Yin, HialingWang, Jing Zhang, Jun Ni, "Fast and High Performance Collision Estimation," *Shanghai Jiaotong University Journal*, 06, pp 962-966+971, 2012
- [43] Qiaorong Zhang, Changming Zhu, Jun Ni, Haibo Liu, "Disease Evolution Discrete-Difference based Ultrasound Characteristics," *China Computer Graphics*, 07, pp 866-872, 2012
- [44] Hualong Yu and Jun Ni, "ACO-Sampling: ACOSampling: An ant colony optimization-based undersampling methodfor classifying imbalanced DNA microarray data," *Neurocomputing*, Vol.

- 101, Issue February 4, 2013, p. 309-318, Elsevier Publisher, DOI: 10.1016/j.neucom.2012.08.018
(SCI Index IDS number: 052AW, Citation 24)
- [45] Zuopeng Li, Jing Zhang, Shaobin Cai, Jun Ni, Review of Molecular Communications, *J. of Communications*, Vol. 34, No. 5, May, 2013, pp. 152-167
- [46] Hualong Yu, Jun Ni, Sen Xu, Bin Qin, Hengrong, Jv, "Estimating Harmfulness of Class Imbalance by Scatter Matrix based Class Separability Measure," *Intelligent Data Analysis* 2014, Vol. 18 Issue 2, p 203-216. 14p, DOI: 10.3233/IDA-140637 **(SCI Index IDS number: AC4FX, Citation 4)**
- [47] Ping Yang, Jun Ni, Zaiying Liu, Design and Implementation of Medical Image Processing Systems based on the Android, *Computer and Modernization* (in Chinese), 2014
- [48] Lihua Dou, Yunchuan Wei, Jun Ni, "Multi-user Wireless Channel Probing for Shared Key Generation," *Computer Networks*, 2013, Elsevier Publisher, 1/15/2014, Vol. 58, p112-126. 15p. DOI:10.1016/j.comnet.2013.08.027 **(SCI Index IDS Number: AB4SZ)**
- [49] Hualong Yu, Shufang Hong, Xibei Yang, Jun Ni, Yuanyuan Dan, and Bin Qin, "Recognition of Multiple Imbalanced Cancer Types Based on DNA Microarray Data Using Ensemble Classifiers," *BioMed Research International*, Aug 26, 2013, DOI:10.1155/2013/239628 **(SCI Index IDS number: 215CR)**
- [50] Hualong Yu and Jun Ni, "An Improved Ensemble Learning Method for Classifying High-Dimensional and Imbalanced Biomedicine Data," *IEEE-ACM Transactions on Computational Biology and Bioinformatics*, Vol. 11, No. 4, July/August 2014, pp. 657-666, DOI: 10.1109/TCBB.2014.2306838 **(SCI Index IDS number: AN2PJ, Citation 3)**

Peer-Reviewed Proceedings (82)

- [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 **(Ei index number: 1990050938782)**
- [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*, ASME Publication, New York, HTD-Vol. 132, pp. 45-56, 1990 **(Ei index number: 1990100435445)**
- [3] Jun Ni, J. Knaack, and C. Fan, "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
- [4] Jun Ni 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
- [5] Jun Ni, C. Beckermann, and T.F. Smith, "Effect of an Electromagnetic Field on Natural Convection in Porous Media," in *Fundamentals of Heat Transfer in Electromagnetic, Electrostatic, and Acoustic Fields*, HTD-Vol. 248, pp.23-33, ASME Publication, New York, NY, 1993 **(Ei index number: 1993121108006)**
- [6] Beckermann, C. and Ni, Jun, "Modeling of Equiaxed Solidification with Convection," in *Proceedings of First International Conference on Transport Phenomena Processing*, Technomic Publishing Company, Inc., Lancaster, Pennsylvania, pp. 308-317, 1993
- [7] 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

- [8] Jun Ni: "Science and Engineering Online Solution Library for Education," WebNet2000, pp. 972-973, Gordon Davies, Charles B. Owen (Eds.): in 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
- [9] Xiang Li, Tao He, Shaowen Wang, Ge Wang, and Jun Ni, "P2P-enhanced Distributed Computing in Medical Image EM Reconstruction," in the 2004 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'04), pp. 822-828, Vol. II, ISBN: 1-932415-24-6, CSREA Press, 2004 **(Ei index number: 2005058812410)**
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Grant and Strategy Policy Review

US Federal Networking and Information Technology Research and Development (NITRD) Outreach
Community Committee and External Reviewer (2007-present)

NSF Grant Reviewer Panelist (2010-2013)

International Government Grant Proposal Reviewer (2008-2012)

- Science & Engineering Research Council (SERC) in Singapore
- Government of the Hong Kong Special Administrative Region
- UK Wellcome Trust Bioscience and medical foundation

University Grant, External Reviewer (2007)

Computational Biology and Clinic Translation Science Award Program, Wayne State University

National/Regional Relations and Outreach

- Operation Council Member, Virtual School of Computational Science and Engineering (2008-2010)
- Great Lakes Consortium for Petascale Computation, Board of Directors (2008-2015)
- EDUCAUSE, Association in Advance Higher Education (2006-)
- National STEM Education Coalition (2006-)
- Coalition for Academic Scientific Computation (CASC) for University of Iowa (2005-10)
University of Iowa Liaison
 1. Coalition for Academic Scientific Computation (2004-10)
 2. NSF sponsored National Supercomputing Centers (National Center for Supercomputing Application, Pittsburg Supercomputing Center, Cornell Theory Center at Cornell University, San Diego Supercomputing Center, 1994-2003)
- University of Iowa Faculty Senate Committee, Council on Teaching (2011-14)
- External Tenure Promotion Reviewer: University of Akron, Arizona State University (2006-2014)

PROFESSIONAL EDITORIAL SERVICES

Editor-in-Chief:

Funding Editor-in-Chief, [Intl. J. of Computational Medicine and Healthcare](#) (2010-2016), UK
[Advances in Computed Tomography](#) (2012-president), USA
China Medical Device, Medical and Healthcare Data Engineering, (2016-2018), China

Associate Editor:

IEEE Systems Journal (2011-2014)

Editorial Board Member:

[J. of Supercomputing](#), [Intl. J. of Information Technology](#)
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Special Issue Editor (2006-2011)

Intl. J. of Computational Science and Engineering, J. of Computational and Theoretical
Nanotechnology, Intl. J. of Computational Science and Engineering, Bioinformatics, the Scientific
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Journal Paper Referee

Computer Science and Information Technology

J. of Supercomputing, Intl. J. of Computational Science and Engineering, Intl. J. of Computational Intelligence in Bioinformatics and System Biology, Intl. J. of Information Technology, Communications and Convergence, J. of Computational and Theoretical Nanoscience, Intl. J. of Intelligent Information Processing, e-Book Editor, Intl. J. of Information Retrieval Research, J. of Computer Science and Information Technology, The J. of Future Generation Information Technology, Scientific J. Intl., J. of Web Security, Integrity, Privacy, and Trust, Frontiers of Mechanical Engineering in China, Intl. J. of Grid and Utility Computing, Advances in Computed Tomography, Intl. J. of Computer Science & Information Technology Applications, Intl. J. of Intelligent Information Processing, Elsevier Parallel Computing, Elsevier and Computers in Simulation, J. of Supercomputing, Society for Modeling and Simulation International (SCS) J. Simulation, Intl. J. of Computational Science and Engineering, Intl. J. of Computational Medicine and Healthcare, and Reports in Medical Imaging, Engineering Science and Technology, an International Journal, International Journal of Data Analysis Techniques and Strategies

Life and Medical and Healthcare Science and Technology

BMC Genomics, Physiological Genomics, BMC Bioinformatics, BMC Proteome Science Open Bioinformatics J., Popular Science Magazine in Health, Oxford Briefings in Bioinformatics, J. of Computational Intelligence in Bioinformatics, Scientific World J. Intl. J. of Computational Medicine and Healthcare, Intl. J. of Biomedical Imaging, Image Science J., J. of X-Ray Science and Technology, Elsevier's Computer Methods and Programs in Biomedicine, Intl. J. of Technology Transfer and Commercialization, Intl. J. of Biomedical Engineering and Technology

Materials Science

IEEE Transaction on Nanotechnology, Modeling and Simulation in Materials Science and Engineering, TCM Metallurgical Transaction A, TCM Metallurgical Transaction B, RSC Nano Scale, RSC Delton, RSC Crystal Engineering Comm, Nanotechnology, RSC Advances

Chemistry and Materials Science

J. of Materials Chemistry, Physical Chemistry Chemical Physics, Chemical Communications (ChemComm), Physical Chemistry Chemical Physics, RSC Advances, Dalton Transactions

Mechanical Engineering

Intl. J. of Heat and Mass Transfer, Numerical Heat Transfer, J. of Acoustical Society of America, J. of Zhejiang University (A), J. of Heat Transfer

Applied Mathematics

Communications in Numerical Methods in Engineering, Numerical Algorithms

Systems Engineering

IEEE Systems Journal

Environmental Engineering

Intl. J. of Environmental Engineering

Business and Commerce

Intl. J. of Technology Transfer and Commercialization

Academic Book/Textbook Reviewer (2001-2013)

McGraw-Hill Publishing, Scott/Jones Publishing Company, Addison-Wesley Publishing Company, Blackwell Publishing, Franklin, Beedle & Associates Publisher, Jones and Bartlett Publisher,

Prentice Hall Publishers, Artech House Publishers, John Wiley & Sons, CRC Press, IGI Global,
Morgan Kaufmann Publishers

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IEEE, IEEE/Computer Society, IEEE/Biomedical Engineering, ACM, CCF

AWARDS AND HONOR

“Lan Yue” Honorable Visiting Professor, Hubei University of Science and Technology	2016-2018
Shanghai Oversea Outstanding Scholar Award	2015
Honorable Advisor Shanghai ZhenHua Vocational School, E-Commerce Major	2015
Shanghai Oversea Outstanding Scholar Award	2014
Honorable Visiting Professor, PhD Advisor, Nanjing University of Sciences and Technology	2012-2014
Honorable Visiting Senior Advisor, Zhao-Ming Cloud Computing Science and Technology	2012-2014
Honorable Visiting General Manager, Zhong-He-Chang-Sheng Science and Technology,	2012-2014
Third Place Award, Heilong Jiang High Education Science and Technology Award	2011
Outstanding Achievement Award, the World Congress in Computer Science	2010
Honorable Visiting Professor, Shanghai University	2008
Achievement Award, the World Academy of Science, World Computer Congress	2007
Honorable Visiting Professor, Harbin Engineering University	2006
Honorable Visiting Scientist, Shanghai Jiao Tong University	2006
University of Iowa Remarkable Employee, University of Iowa	2006
Achievement Award, the World Academy of Science	2004
Award of International Travel Funds, University of Iowa	1997, 2002
Award of Mary Jo Small Fellowship, University of Iowa	2001
President, Chinese Faculty and Professionals Association, in Iowa City/Cedar Rapids	1995-1996
Vice President, Chinese Student and Scholars Friendship Association, University of Iowa	1988-1989
Faculty Oversea Scholar Fellowship, Chinese Ministry of Education	1987-1988

MANAGEMENT AND MENTORING

Academic Mentoring

7 Visiting Scholars, 30 Graduate Students, 11 Undergraduate Students

Supervising Professional Staff

15 FETs and PTEs at Information Technology Services or Caver College of Medicine, the
University of Iowa

SKILLS

Technical Skills:

Programming Skills: C/C++/C#, Java, Python, JavaScript, SQL, FORTRAM, SAS, SPSS, R, MATLAB; MPI, OpenMP, OpenGL
Mathematical Modeling and Simulation, High Performance Computing, Informatics, Data Analysis and Big Data Systems

Management, Social and Communication skills:

- Over 20 years team-based consulting and management in IT
- Participating in many academic and industrial programs and outreach activities in STEM in USA
- Providing consultation services to many enterprise sectors in both USA and China

Linguistic Languages:

English (30 years living in USA) and Chinese (Native Language), Japanese (four year college foreign language taught by teacher from Japan)

Reference upon Request