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1 Bio

Chenfanfu Jiang is an associate professor of Mathematics at UCLA. He obtained his PhD degree ('15) in CS from UCLA co-advised by Demetri Terzopoulos and Joseph Teran. He is a recipient of the UCLA Edward K. Rice Outstanding Doctoral Student Award (2015), NSF CRII award (2018) and NSF CAREER award (2020). He directs UCLA Multi-Physics Lagrangian-Eulerian Simulations (MultiPLES) Laboratory with research projects spanning scientific computing, computer graphics, metaverse, computational mechanics, machine learning, and robotics.

2 Education

- Ph.D. Computer Science, University of California, Los Angeles, 2012-2015.
 - Thesis title: The Material Point Method for the Physics-based Simulation of Solids and Fluids.
 - Thesis advisors: Joseph Teran (Applied Math) and Demetri Terzopoulos (Computer Science).
 - Thesis committee: Stanley Osher (Applied Math) and Song-Chun Zhu (Statistics).
 - Winner, UCLA HSSEAS Edward K. Rice Outstanding Doctoral Student Award.
- M.S. Computer Science, University of California, Los Angeles, 2010-2012.
 - Thesis title: Simulation of Elastic Solids with Efficient Self-Collision Handling.
- B.S. Physics, University of Science and Technology of China, 2006-2010.
 - The *Special Class for the Gifted Young* Program
 - Thesis title: Relativistic Correction of $(v/c)^2$ to the Collective Thomson Scattering for High-Temperature High-Density Plasma.

3 Academic Positions

- Associate Professor, Department of Mathematics, University of California, Los Angeles, July 2022 - Present
- Assistant Professor, Department of Mathematics, University of California, Los Angeles, July 2021 - June 2022
- Assistant Professor, Department of Computer and Information Science (CIS), University of Pennsylvania, June 2017 - June 2021

- Core faculty at the SIG Center for Computer Graphics
- Faculty Affiliate at the General Robotics, Automation, Sensing and Perception (GRASP) Lab
- Affiliated to the Penn Institute for Computational Science (PICS), as Workshop Chair 2017-2021
- Affiliated to the Graduate Group in Applied Mathematics and Computational Science (AMCS)
- Postdoctoral Scholar, (Jointly) Department of Mathematics and Department of Computer Science, University of California, Los Angeles, 2015–2017

4 Industry Experience

- Consulting for Jixie Effects Inc., 2016–2021
- Consulting for Awowd Inc., 2016–2020
- Consulting for VoxelCloud Ltd., 2015–2017
- Research and Development Intern, Walt Disney Animation Studios, Summer 2013
- Research and Development Intern, Industrial Light and Magic, Lucasfilm, Summer 2012

5 Awards and Honors

Paper Awards

1. Best Paper Award in Mechanisms and Design, IEEE International Conference on Robotics and Automation (ICRA), 2021
2. Third place winner in the Computer Graphics Forum Cover Image Contest (CD-MPM), 2020
3. Best Paper Award, ACM SIGGRAPH/EG Symposium on Computer Animation (SCA), 2019
4. Best Paper Award, Motion In Games (MIG), 2017
5. Best Paper Award, ACM SIGGRAPH/EG Symposium on Computer Animation (SCA), 2013

Personal Awards and Honors

Awards

1. NSF CAREER Award, 2020
2. NSF CISE CRII Award, 2018
3. Edward K. Rice Outstanding Doctoral Student Award, Henry Samueli School of Engineering and Applied Science, University of California, Los Angeles, 2015
4. Honor Graduate Certificate, University of Science and Technology of China, 2010
5. Distinguished Undergraduate Student Researcher, Chinese Academy of Science, 2009
6. Excellent Student Scholarship, University of Science and Technology of China, 2006–2009

Notable Nominations

1. Sole Nomination from UCLA Computer Science Department, Chancellor's Award for Postdoctoral Research, 2017
2. Sole Nomination from UCLA, CGS/ProQuest Distinguished Dissertation Award in Mathematics, Physical Sciences, and Engineering, 2016

6 Publications

Citations: 2844, h-index: 28, i10-index: 54 (Google Scholar, up to August 21 2022)

Peer-Reviewed Journal Publications

1. Bertil Trottet, Ron Simenhois, Gregoire Bobillier, Bastian Bergfeld, Alec van Herwijnen, Chenfanfu Jiang, Johan Gaume, Transition from Sub-Rayleigh Anticrack to Supershear Crack Propagation in Snow Avalanches, *Nature Physics*, 2022
2. Xiyu Yi, Haichao Miao, Jacky Kai-yin Lo, Maher M. Elsheikh, Tek-Hyung Lee, Chenfanfu Jiang, Yuliang Zhang, Brent W. Segelke, K. Wesley Overton, Peer-Timo Bremer, Ted A. Laurence, Tailored approach to study Legionella infection using a lattice light sheet microscope (LLSM), *Biomedical Optics Express*, 2022
3. Xingyue Li, Betty Sovilla, Camille Ligneau, Chenfanfu Jiang, Johan Gaume, Different erosion and entrainment mechanisms in snow avalanches, *Mechanics Research Communications*, 2022
4. Lei Lan, Guanqun Ma, Yin Yang, Changxi Zheng, Minchen Li, Chenfanfu Jiang, Penetration-free Projective Dynamics on the GPU, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, 2022
5. Lei Lan, Danny M. Kaufman, Minchen Li, Chenfanfu Jiang, Yin Yang, Affine Body Dynamics: Fast, Stable & Intersection-free Simulation of Stiff Materials, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, 2022
6. Yunuo Chen*, Minchen Li* (equal contributions), Lei Lan, Hao Su, Yin Yang, Chenfanfu Jiang, A Unified Newton Barrier Method for Multibody Dynamics, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, 2022
7. Xuan Li, Minchen Li, Chenfanfu Jiang, Energetically Consistent Inelasticity for Optimization Time Integration, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, 2022
8. Ziyin Qu, Minchen Li, Fernando de Goes, Chenfanfu Jiang, The Power Particle-In-Cell Method, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, 2022
9. Yidong Zhao*, Jinhyun Choo* (equal contributions), Yupeng Jiang, Minchen Li, Chenfanfu Jiang, Kenichi Soga, A barrier method for frictional contact on embedded interfaces, *Computer Methods in Applied Mechanics and Engineering*, 2022
10. Yadi Cao, Yunuo Chen, Minchen Li, Yin Yang, Xinxin Zhang, Mridul Aanjaneya, Chenfanfu Jiang, An Efficient B-Spline Lagrangian/Eulerian Method for Compressible Flow, Shock Waves, and Fracturing Solids, *ACM Transaction on Graphics (TOG)*, 2022
11. Xuan Li*, Yu Fang* (equal contributions), Minchen Li, Chenfanfu Jiang, BFEMP: Interpenetration-Free MPM-FEM Coupling with Barrier Contact, *Computer Methods in Applied Mechanics and Engineering*, 2021
12. Libo Huang, Ziyin Qu, Xun Tan, Xinxin Zhang, Dominik L. Michels, Chenfanfu Jiang, Ships, Splashes, and Waves on a Vast Ocean, *ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia)*, 2021
13. Xingyue Li, Betty Sovilla, Chenfanfu Jiang, Johan Gaume, Three-dimensional and real-scale modeling of flow regimes in dense snow avalanches, *Landslides*, 2021
14. Joshua Wolper, Ming Gao, Martin Luthi, Valentin Heller, Andreas Vieli, Chenfanfu Jiang, Johan Gaume, A Glacier-Ocean Interaction Model for Tsunami Genesis Due to Iceberg Calving, *Nature Communications Earth and Environment*, 2021
15. Yue Li*, Xuan Li*, Minchen Li* (equal contributions), Yixin Zhu, Bo Zhu, Chenfanfu Jiang, Lagrangian-Eulerian Multi-Density Topology Optimization With The Material Point Method, *International Journal for Numerical Methods in Engineering (IJNME)*, 2021

16. Minchen Li, Danny M. Kaufman, Chenfanfu Jiang, Codimensional Incremental Potential Contact, ACM Transactions on Graphics (Proceedings of SIGGRAPH), 2021
17. Yu Fang*, Minchen Li* (equal contributions), Chenfanfu Jiang, Danny M. Kaufman, Guaranteed Globally Injective 3D Deformation Processing, ACM Transactions on Graphics (Proceedings of SIGGRAPH), 2021
18. Zachary Ferguson, Minchen Li, Teseo Schneider, Francisca Gil-Ureta, Timothy Langlois, Chenfanfu Jiang, Denis Zorin, Danny M. Kaufman, Daniele Panozzo, Intersection-free Rigid Body Dynamics, ACM Transactions on Graphics (Proceedings of SIGGRAPH), 2021
19. Lei Lan*, Yin Yang* (equal contributions), Danny M. Kaufman, Junfeng Yao, Minchen Li, Chenfanfu Jiang, Medial IPC: Accelerated Incremental Potential Contact With Medial Elastics, ACM Transactions on Graphics (Proceedings of SIGGRAPH), 2021
20. Haozhe Su*, Tao Xue* (equal contributions), Chengguizi Han, Chenfanfu Jiang and Mridul Aanjaneya, A Unified Second-Order Accurate in Time MPM Formulation for Simulating Viscoelastic Liquids with Phase Change, ACM Transactions on Graphics (Proceedings of SIGGRAPH), 2021
21. Siyuan Shen, Yin Yang, Tianjia Shao, He Wang, Chenfanfu Jiang, Lei Lan, and Kun Zhou, High-order Differentiable Autoencoder for Nonlinear Model Reduction, ACM Transactions on Graphics (Proceedings of SIGGRAPH), 2021
22. Tao Xue*, Haozhe Su* (*equal contributions), Chengguizi Han, Chenfanfu Jiang, Mridul Aanjaneya, A Novel Discretization and Numerical Solver for Non-Fourier Diffusion, ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia), 2020
23. Joshua Wolper, Yunuo Chen, Minchen Li, Yu Fang, Ziyin Qu, Jiecong Lu, Meggie Cheng, Chenfanfu Jiang, AnisoMPM: Animating Anisotropic Damage Mechanics, ACM Transactions on Graphics (Proceedings of SIGGRAPH), 2020
 - *ACM Transaction on Graphics Volume 39, Issue 4 (July 2020) Front Cover Image*
24. Minchen Li, Zachary Ferguson, Teseo Schneider, Timothy Langlois, Denis Zorin, Daniele Panozzo, Chenfanfu Jiang, Danny Kaufman, Incremental Potential Contact: Intersection- and Inversion-free, Large-Deformation Dynamics, ACM Transactions on Graphics (Proceedings of SIGGRAPH), (# pages: 20), 2020
25. Yu Fang*, Ziyin Qu* (*equal contributions), Minchen Li, Xinxin Zhang, Yixin Zhu, Mridul Aanjaneya, Chenfanfu Jiang, IQ-MPM: An Interface Quadrature Material Point Method for Non-sticky Strongly Two-way Coupled Nonlinear Solids and Fluids, ACM Transactions on Graphics (Proceedings of SIGGRAPH), 2020
26. Xinlei Wang*, Minchen Li* (*equal contribution), Yu Fang, Xinxin Zhang, Ming Gao, Min Tang, Danny M. Kaufman, Chenfanfu Jiang, Hierarchical Optimization Time Integration for CFL-rate MPM Stepping, ACM Transaction on Graphics (TOG), (# pages: 16), 2020
27. Weizhen Huang, Julian Iseringhausen, Tom Kneiphof, Ziyin Qu, Chenfanfu Jiang, Matthias Hullin, Chemomechanical Simulation of Soap Film Flow on Spherical Bubbles, ACM Transactions on Graphics (Proceedings of SIGGRAPH), (# pages: 14), 2020
28. Xinlei Wang*, Yuxing Qiu* (*Equal contributions), Stuart Slattery, Yu Fang, Minchen Li, Song-Chun Zhu, Yixin Zhu, Min Tang, Dinesh Manocha, Chenfanfu Jiang, A Massively Parallel and Scalable Multi-GPU Material Point Method, ACM Transactions on Graphics (Proceedings of SIGGRAPH), (# pages: 15), 2020
29. Xingyue Li, Betty Sovilla, Chenfanfu Jiang, Johan Gaume, The mechanical origin of snow avalanche dynamics and flow regime transitions, The Cryosphere, 2020
30. Yupeng Jiang, Minchen Li, Chenfanfu Jiang, Fernando Alonso-marroquin, A hybrid material-point spheropolygon-element method for solid and granular material interaction, International Journal for Numerical Methods in Engineering (IJNME), 2020

31. Johan Gaume, Alec van Herwijnen, Theodore Gast, Joseph Teran, Chenfanfu Jiang, Investigating the release and flow of snow avalanches at the slope-scale using a unified model based on the material point method, *Cold Regions Science and Technology*, (# pages: 9), 2019
32. Monroe Kennedy, Karl Schmeckpeper, Dinesh Thakur, Chenfanfu Jiang, Vijay Kumar, Kostas Daniilidis, Autonomous Precision Pouring from Unknown Containers, *IEEE Robotics and Automation Letters (RA-L)*, (# pages: 8), 2019
33. Joshua Wolper, Yu Fang, Minchen Li, Jiecong Lu, Ming Gao, Chenfanfu Jiang, CD-MPM: Continuum Damage Material Point Methods for Dynamic Fracture Animation, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, (# pages: 15), 2019
Acceptance rate: 29%
 - *Third place winner in the Computer Graphics Forum 2020 Cover Image Contest* <http://vcg.isti.cnr.it/cgf/winner.php>
34. Yu Fang, Minchen Li, Ming Gao, Chenfanfu Jiang, Silly Rubber: An Implicit Material Point Method for Simulating Non-equilibrated Viscoelastic and Elastoplastic Solids, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, (# pages: 13), 2019
Acceptance rate: 29%
35. Minchen Li, Ming Gao, Timothy Langlois, Chenfanfu Jiang, Danny M. Kaufman, Decomposed Optimization Time Integrator for Large-Step Elastodynamics, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, (# pages: 10), 2019
Acceptance rate: 29%
36. Ziyin Qu*, Xinxin Zhang* (equal contributions), Ming Gao, Chenfanfu Jiang, Baoquan Chen, Efficient and Conservative Fluids Using Bidirectional Mapping, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, (# pages: 12), 2019
Acceptance rate: 29%
37. Ming Gao*, Xinlei Wang*, Kui Wu* (equal contributions), Andre Pradhana, Eftychios Sifakis, Cem Yuksel, Chenfanfu Jiang, GPU Optimization of Material Point Methods, *ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia)*, (# pages: 12), 2018
Acceptance rate: 30%
38. Yuanming Hu, Yu Fang, Ziheng Ge, Ziyin Qu, Yixin Zhu, Andre Pradhana, Chenfanfu Jiang, A Moving Least Squares Material Point Method with Displacement Discontinuity and Two-Way Rigid Body Coupling, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, (# pages: 14), 2018
Acceptance rate: 27%
39. Ming Gao, Andre Pradhana, Xuchen Han, Qi Guo, Grant Kot, Eftychios Sifakis, Chenfanfu Jiang, Animating Fluid Sediment Mixture in Particle-Laden Flows, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, (# pages: 11), 2018
Acceptance rate: 27%
40. Johan Gaume, Theodore Gast, Joseph Teran, Alec van Herwijnen, Chenfanfu Jiang, Dynamic Anticrack Propagation In Snow, *Nature Communications*, volume 9, Article number: 3047, (# pages: 10), 2018
41. Tomer Weiss, Alan Litteneker, Noah Duncan, Masaki Nakada, Chenfanfu Jiang, Lap-Fai Yu, Demetri Terzopoulos, Fast and Scalable Position-Based Layout Synthesis, *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, (# pages: 13), 2018
42. Chenfanfu Jiang*, Siyuan Qi*, Yixin Zhu*, Siyuan Huang* (*equal contributors), Jenny Lin, Lap-Fai Yu, Demetri Terzopoulos, Song-Chun Zhu, Configurable 3D Scene Synthesis and 2D Image Rendering with Per-Pixel Ground Truth using Stochastic Grammars, *International Journal of Computer Vision (IJCV)*, (# pages: 22), 2018

43. Chenfanfu Jiang, Craig Schroeder, Joseph Teran, An Angular Momentum Conserving Affine Particle-in-Cell Method, *Journal of Computational Physics*, 338(1), pp. 137-164, (# pages: 28), 2017
44. Kwitae Chong, Chenfanfu Jiang, Daniel Ram, Anand Santhanam, Demetri Terzopoulos, Peyman Benharash, Eric Dutton, Joseph Teran, Jeff Eldredge, Visualization of Vascular Injuries in Extremity Trauma, *Medical & Biological Engineering & Computing*, doi:10.1007/s11517-017-1619-9, (# pages: 10), 2017
45. Ming Gao, Andre Pradhana, Chenfanfu Jiang, Eftychios Sifakis, An Adaptive Generalized Interpolation Material Point Method for Simulating Elastoplastic Materials, *ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia)*, (# pages: 12), 2017
Acceptance rate: 24%
46. Chuyuan Fu, Qi Guo, Theodore Gast, Chenfanfu Jiang, Joseph Teran, A Polynomial Particle-In-Cell Method, *ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia)*, (# pages: 12), 2017
Acceptance rate: 24%
47. Chenfanfu Jiang, Theodore Gast, Joseph Teran, Anisotropic Elastoplasticity for Cloth, Knit and Hair Frictional Contact, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, (# pages: 14), 2017
Acceptance rate: 28%
48. Andre Pradhana, Theodore Gast, Gergely Klar, Chuyuan Fu, Joseph Teran, Chenfanfu Jiang, Ken Museth, Multispecies Simulation of Porous Sand and Water Mixtures, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, (# pages: 11), 2017
Acceptance rate: 28%
49. Gergely Klar, Theodore Gast, Andre Pradhana, Chuyuan Fu, Craig Schroeder, Chenfanfu Jiang, Joseph Teran, Drucker-Prager Elastoplasticity for Sand Animation, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, (# pages: 12), 2016
Acceptance rate: 25%
50. Xiaowei Ding, Jianing Pang, Zhou Ren, Mariana Diaz-Zamudio, Chenfanfu Jiang, Zhaoyang Fan, Daniel Berman, Debiao Li, Demetri Terzopoulos, Piotr Slomka, Damini Dey, Automated Pericardial Fat Quantification From Coronary Magnetic Resonance Angiography: A Feasibility Study, *Journal of Medical Imaging*, 3(1), 014002, (# pages: 6), 2016
51. Chenfanfu Jiang, Craig Schroeder, Joseph Teran, Andrew Selle, Alexey Stomakhin, The Affine Particle-in-Cell Method, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, (# pages: 10), 2015
Acceptance rate: 25%
52. Theodore Gast, Craig Schroeder, Alexey Stomakhin, Chenfanfu Jiang, Joseph Teran, Optimization Integrator for Large Time Steps, *IEEE Transactions on Visualization and Computer Graphics (TVCG 2015)*, 21(10) pp. 1103-1115, (# pages: 13), 2015
53. Alexey Stomakhin, Craig Schroeder, Chenfanfu Jiang, Larrence Chai, Joseph Teran, Andrew Selle, Augmented MPM for Phase-Change and Varied Materials, *ACM Transactions on Graphics (Proceedings of SIGGRAPH)*, (# pages: 11), 2014
Acceptance rate: 25%
54. Chenfanfu Jiang, Jian Zheng, Bin Zhao, Relativistic Correction of $(v/c)^2$ to the Collective Thomson Scattering, *Chinese Phys. B* 20095202, (# pages: 8), 2011

Peer-Reviewed Conference Publications

55. Xuan Li, Yadi Cao, Minchen Li, Yin Yang, Craig Schroeder, Chenfanfu Jiang, PlasticityNet: Learning to Simulate Metal, Sand, and Snow for Optimization Time Integration, *Neural Information Processing Systems (NeurIPS)*, 2022

56. Siyuan Shen, Tianjia Shao, Kun Zhou, Chenfanfu Jiang, Feng Luo, Yin Yang, HoD-Net: High-order Differentiable Deep Neural Networks and its Applications, AAAI Conference on Artificial Intelligence (AAAI), 2022
57. Xuan Li*, Jessica McWilliams* (*equal contributions), Minchen Li, Cynthia Sung, Chenfanfu Jiang, Soft Hybrid Aerial Vehicle via Bistable Mechanism, International Conference on Robotics and Automation (ICRA), 2021
 - *Awarded ICRA 2021 best paper in mechanisms and design*
58. Steven Gagniere, David Hyde, Alan Marquez-Razon, Chenfanfu Jiang, Ziheng Ge, Xuchen Han, Qi Guo, Joseph Teran, A Hybrid Lagrangian/Eulerian Collocated Advection and Projection Method for Fluid Simulation, Symposium on Computer Animation (SCA), 2020
59. Bowen Yang*, William Corse* (equal contributions), Jiecong Lu, Joshua Wolper, Chenfanfu Jiang, Real-Time Fluid Simulation on the Surface of a Sphere, Proceedings of the ACM in Computer Graphics and Interactive Techniques (PACMCGIT) special issue on Symposium on Interactive 3D Graphics and Games (I3D), (# pages: 17), 2019

Acceptance rate (to conference): 27%, (concurrently to journal): 13%
60. Xuchen Han, Theodore Gast, Qi Guo, Stephanie Wang, Chenfanfu Jiang, Joseph Teran, A Hybrid Material Point Method for Frictional Contact with Diverse Materials, Proceedings of the ACM in Computer Graphics and Interactive Techniques (PACMCGIT) special issue on Symposium on Computer Animation (SCA), (# pages: 24), 2019

Acceptance rate (to conference): 46%, (concurrently to journal): 30%
61. Stephanie Wang, Mengyuan Ding, Theodore F. Gast, Leyi Zhu, Steven Gagniere, Chenfanfu Jiang, Joseph Teran, Simulation and Visualization of Ductile Fracture with the Material Point Method, Proceedings of the ACM in Computer Graphics and Interactive Techniques (PACMCGIT) special issue on Symposium on Computer Animation (SCA), (# pages: 20), 2019

Acceptance rate (to conference): 46%, (concurrently to journal): 30%

 - *Awarded SCA 2019 best paper*
62. Hangxin Liu, Chi Zhang, Yixin Zhu, Chenfanfu Jiang, Song-Chun Zhu, Mirroring without Overimitation: Learning Functionally Equivalent Manipulation Actions, The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI), (# pages: 9), 2019

Acceptance rate: 16%
63. Yu Fang*, Yuanming Hu* (equal contributions), Shi-Min Hu, Chenfanfu Jiang, A Temporally Adaptive Material Point Method with Regional Time Stepping, Computer Graphics Forum special issue on ACM SIGGRAPH/ Eurographics Symposium on Computer Animation (SCA), (# pages: 10), 2018

Acceptance rate Not Disclosed
64. Siyuan Qi, Yixin Zhu, Siyuan Huang, Chenfanfu Jiang, Song-Chun Zhu, Human-centric Indoor Scene Synthesis Using Stochastic Grammar, IEEE Computer Vision and Pattern Recognition (CVPR), (# pages: 10), 2018

Acceptance rate: 29%
65. Duotun Wang*, James Kubricht*, Yixin Zhu* (equal contributions), Wei Liang, Song-Chun Zhu, Chenfanfu Jiang, Hongjing Lu, Spatially Perturbed Collision Sounds Attenuate Perceived Causality in 3D Launching Events, IEEE Conference on Virtual Reality and 3D User Interfaces, (# pages: 8), 2018

Acceptance rate: 20%
66. Tomer Weiss, Alan Litteneker, Chenfanfu Jiang, Demetri Terzopoulos, Position-Based Multi-Agent Dynamics for Real-Time Crowd Simulation, Motion in Games, (# pages: 8), 2017

Acceptance rate (long paper): 13%

 - *Awarded MIG 2017 best paper*

67. James Kubricht*, Yixin Zhu*, Chenfanfu Jiang* (equal contributions), Demetri Terzopoulos, Song-Chun Zhu, Hongjing Lu, Consistent Probabilistic Simulation Underlying Human Judgment in Substance Dynamics, Proceedings of the 39th Annual Meeting of the Cognitive Science Society (Cogsci oral), (# pages: 6), 2017
Acceptance rate (oral): 29%
68. James Kubricht*, Chenfanfu Jiang*, Yixin Zhu* (equal contributions), Song-Chun Zhu, Demetri Terzopoulos, Hongjing Lu, Probabilistic Simulation Predicts Human Performance on Viscous Fluid-Pouring Problem, Neural Information Processing Systems (NIPS) (Intuitive Physics Workshop), (# pages: 6), 2016
69. Jenny Lin, Xingwen Guo, Jingyu Shao, Chenfanfu Jiang, Yixin Zhu, Song-Chun Zhu, A Virtual Reality Platform for Dynamic Human-Scene Interaction, SIGGRAPH Asia (Virtual Reality Meets Physical Reality Workshop), (# pages: 4), 2016
70. James Kubricht*, Chenfanfu Jiang*, Yixin Zhu* (equal contributions), Song-Chun Zhu, Demetri Terzopoulos, Hongjing Lu, Probabilistic Simulation Predicts Human Performance on Viscous Fluid-Pouring Problem, Proceedings of the 38th Annual Meeting of the Cognitive Science Society (Cogsci oral), (# pages: 6), 2016
Acceptance rate (oral): 34%
71. Yixin Zhu*, Chenfanfu Jiang* (equal contributions), Yibiao Zhao, Demetri Terzopoulos, Song-Chun Zhu, Inferring Forces and Learning Human Utilities From Videos, IEEE Computer Vision and Pattern Recognition (CVPR oral) 3823–3833, (# pages: 11), 2016
Acceptance rate: 29%
72. Xiaowei Ding, Xin Geng, Chenfanfu Jiang, Feng Tian, Xingjian Yan, Hang Qi, Lei Zhang, Yongchang Zheng, Fast Automated Liver Delineation from Computational Tomography Angiography, Medical Image Understanding and Analysis Conference (MIUA), Procedia Computer Science 90: 87-92, (# pages: 6), 2016
73. Daniel Ram, Theodore Gast, Chenfanfu Jiang, Craig Schroeder, Alexey Stomakhin, Joseph Teran, Pirouz Kavehpour, A Material Point Method for Viscoelastic Fluids, Foams and Sponges, ACM SIGGRAPH/ Eurographics Symposium on Computer Animation (SCA 2015), , pp. 157-163, (# pages: 7), 2015
Acceptance rate: 33%
74. Yuting Wang, Chenfanfu Jiang, Craig Schroeder, Joseph Teran, An Adaptive Virtual Node Algorithm with Robust Mesh Cutting, ACM SIGGRAPH/Eurographics Symposium on Computer Animation (SCA 2014), pp. 77-85, (# pages: 9), 2014
Acceptance rate: 38%
75. Jan Hegemann, Chenfanfu Jiang, Craig Schroeder, Joseph Teran, A Level Set Method for Ductile Fracture, ACM SIGGRAPH/Eurographics Symposium on Computer Animation (SCA 2013), pp. 193-201, (# pages: 9), 2013
Acceptance rate: 35%
 - *Awarded SCA 2013 best paper*
76. Jingyi Fang, Chenfanfu Jiang, Demetri Terzopoulos, Modeling and Animating Myriapoda: A Real-time Kinematic/Dynamic Approach, ACM SIGGRAPH/Eurographics Symposium on Computer Animation (SCA 2013), pp. 203-212, (# pages: 10), 2013
Acceptance rate: 35%

Peer-Reviewed Course Notes and Tutorials

77. Yuanming Hu, Xinxin Zhang, Ming Gao, Chenfanfu Jiang, On Hybrid Lagrangian-Eulerian Simulation Methods: Practical Notes and High-Performance Aspects, SIGGRAPH course notes, 2019

78. Chenfanfu Jiang, Craig Schroeder, Alexey Stomakhin, Andre Selle, Joseph Teran, The Material Point Method for Physics Based Simulation: Modeling and Discretization, SIGGRAPH course notes, 2016

Arxiv and Technical Reports

79. Yuxing Qiu, Feng Gao, Minchen Li, Govind Thattai, Yin Yang, Chenfanfu Jiang, TPA-Net: Generate A Dataset for Text to Physics-based Animation, Arxiv, 2022
80. Yadi Cao, Menglei Chai, Minchen Li, Chenfanfu Jiang, Bi-Stride Multi-Scale Graph Neural Network for Mesh-Based Physical Simulation, Arxiv, 2022
81. Yidong Zhao, Chenfanfu Jiang, Jinhyun Choo, Circumventing Volumetric Locking in Explicit Material Point Methods: A Simple, Efficient, and General Approach, Arxiv, 2022
82. Yunuo Chen, Minchen Li, Wenlong Lu, Chuyuan Fu, Chenfanfu Jiang, Midas: A Multi-Joint Robotics Simulator with Intersection-Free Frictional Contact, Arxiv, 2022
83. Zeshun Zong*, Xuan Li* (equal contributions), Jianping Ye, Sian Wen, Yin Yang, Danny M. Kaufman, Minchen Li, Chenfanfu Jiang, Topology Optimization with Frictional Self-Contact, Arxiv, Aug 9, 2022
84. Yu Fang*, Jiancheng Liu*, Mingrui Zhang* (equal contributions), Jiasheng Zhang, Yidong Ma, Minchen Li, Yuanming Hu, Chenfanfu Jiang, Tiantian Liu, Complex Locomotion Skill Learning via Differentiable Physics, ArXiv, June 6, 2022
85. Zizhou Huang, Teseo Schneider, Minchen Li, Chenfanfu Jiang, Denis Zorin, Daniele Panozzo, A Large-Scale Benchmark for the Incompressible Navier-Stokes Equations, ArXiv, December 10, 2021
86. Theodore Gast, Chuyuan Fu, Chenfanfu Jiang, Joseph Teran, Implicit-shifted Symmetric QR Singular Value Decomposition of 3x3 Matrices, UCLA Mathematics Department Technical Report (CAM16-19), (# pages: 7), 2016

Abstracts and Posters

87. Johan Gaume, Ming Gao, Joshua Wolper, Martin P. Luethi, Andreas Vieli, Joseph Teran, Chenfanfu Jiang, A Material Point Method for Glacier Calving, In EGU General Assembly Conference Abstracts, p. 21958. 2020.
88. Xingyue Li, Betty Sovilla, Stephanie Wang, Chenfanfu Jiang, Johan Gaume. Numerical modeling of snow avalanche dynamics based on the Material Point Method. In EGU General Assembly Conference Abstracts, p. 2153. 2020.
89. Bertil Trottet, Alec van Herwijnen, Stephanie Wang, Chenfanfu Jiang, Joseph Teran, Johan Gaume. Sharp transition in modes of dynamic crack propagation in dry-snow slab avalanche release. In EGU General Assembly Conference Abstracts, p. 20604. 2020.
90. Lars Blatny, Henning Lowe, Stephanie Wang, Chenfanfu Jiang, Johan Gaume. Microstructure-based modeling of snow using the material point method and finite strain elastoplasticity. 2020.
91. Johan Gaume, Theodore Gast, Joseph Teran, Alec van Herwijnen, Chenfanfu Jiang, Unified modeling of the release and flow of snow avalanches using MPM, ECCM ECFD, 2018
92. Tomer Weiss, Alan Litteneker, Chenfanfu Jiang, Demetri Terzopoulos, Position-Based Multi-Agent Dynamics for Real-Time Crowd Simulation, ACM SIGGRAPH/Eurographics Symposium on Computer Animation (SCA 2017 Posters), 2017
93. Chenfanfu Jiang, Craig Schroeder, Joseph Teran, A New Particle-In-Cell Technique for Reducing Noise, 14th U.S. National Congress on Computational Mechanics, 2017.

94. Yixin Zhu*, Chenfanfu Jiang* (equal contributions), Yibiao Zhao, Demetri Terzopoulos, Song-Chun Zhu, Evaluating Physical Quantities and Learning Human Utilities from RGBD Videos, SIGGRAPH Asia (Virtual Reality Meets Physical Reality Workshop), 2016.
95. Chenfanfu Jiang, Kwitae Chong, Jeff Eldredge, Daniel Ram, Craig Schroeder, Joseph Teran, Anand Santhanam, Demetri Terzopoulos, Peyman Benharash, Material Point Method Simulation of Ballistic Trauma, 12th World Congress on Computational Mechanics (WCCM), 2016.
96. Kwitae Chong, Chenfanfu Jiang, Anand Santhanam, Demetri Terzopoulos, Peyman Benharash, Joseph Teran, Jeff Eldredge, Numerical Simulation of Hemorrhage in Human Injury, 68th Annual Meeting of the APS Division of Fluid Dynamics, Gallery of Fluid Motion, Volume 60 Number 21, 2015.
97. Kwitae Chong, Chenfanfu Jiang, Peyman Benharash, Joseph Teran and Jeff Eldredge, Particle Simulation of Hemorrhage of Injured Human Body, 9th Southern California Symposium on Flow Physics, San Diego State University, 2015.
98. Jian Zheng, Chenfanfu Jiang, Bin Zhao, Relativistic Correction of $(v/c)^2$ to the Collective Thomson Scattering, Bulletin of the American Physical Society, vol. 55, (APS 2010), 2010.

7 Invited Talks

1. Energetically Consistent Inelasticity, UCLA Mathematics Colloquium, November 10, 2022
2. Scientific Visual Computing, UCLA Bruin Family Weekend Faculty Presentation, October 28, 2022
3. Incremental Potential Elastodynamics with Contact, UC Riverside Computer Science and Engineering Department Colloquium, October 7, 2022
4. Simulating Granular Media as Continuum Solids, Invited talk at Demetri Terzopoulos's CS 174C, May 16, 2022
5. Incremental Potential Elastodynamics with Contact: Robust Optimization-based Solvers and Smooth Reformulations, Colorado State University Applied Math/Inverse Problems Seminar, Mar 10, 2022
6. Frictional Contact with Guarantees and Smoothness, The first workshop on SEAI: Simulation Technology for Embodied AI, ICCV, October 16, 2021
7. Incremental Potential Elastodynamics with Contact: Robust Optimization-based Solvers and Smooth Reformulations, UCSD Pixel Cafe, October 8, 2021
8. Robust Optimization-based Solvers and Smooth Reformulations, Siemens Next Generation Simulation Talks, September 13, 2021
9. Developments in Smooth Optimization Contact, MIT Summer Geometry Institute (SGI), August 19, 2021
10. Incremental Potential Elastodynamics with Contact, School of Informatics at Xiamen University, June 27, 2021
11. Simulating Granular Media as Continuum Solids, Invited talk at Marcus Roper's Math 272B, May 26, 2021
12. Continuum Rupture Discrete Particles, Toronto Geometry Colloquium, April 14, 2021
13. Incremental Potential Elastodynamics with Contact: Robust Optimization-based Solvers and Smooth Reformulations, UCLA Applied Math Seminar, December 18, 2020
14. Smooth Reformulations for Physics-Based Simulation: with Case Studies on Frictional Contact and Fracture, New Jersey Institute of Technology Computer Graphics, November 8, 2020
15. Smooth Reformulations for Physics-Based Simulation: with Case Studies on Frictional Contact and Fracture, Advanced Innovation Center for Future Visual Entertainment in Beijing Film Academy, October 29, 2020

16. Smooth Reformulations for Physics-Based Simulation: with Case Studies on Frictional Contact and Fracture, MIT Graphics Seminar, October 7, 2020
17. Photorealistic and efficient simulation of natural phenomena, RealTime Conference (RTC 2020), June 8, 2020
18. Recreating Nature with High-fidelity Physics-based Visual Computing, USC Information Sciences Institute (ISI) AI Seminar, February 14, 2020
19. MPM simulation for viscoplastic flows: pluridisciplinary modeling of snow avalanches, Workshop Graphyz on physics and graphics, Inria, October 24, 2019
20. The power of constitutive modeling in physics-based animation: elasticity, inelasticity, and damage mechanics, ACM SIGGRAPH / Eurographics Symposium on Computer Animation, July 27, 2019
21. Elastoplasticity simulation in computer graphics, The Tristate Workshop on Imaging and Graphics (TWIG) April 7, 2018
22. Elastoplasticity simulation in computer graphics, Rutgers University CS department colloquium, March 9, 2018
23. Scientific computing for animation, visual effects, virtual injury and surgery, Penn Presbyterian Medical Center, November 1, 2017
24. Elastoplasticity simulation in computer graphics, 2017 PICS Conference Emergent Phenomena: Patterns, Function and Beyond, October 5, 2017
25. Scientific computing for animation and visual effects, Cisco Research, September 20, 2017
26. Advances in Material Point Method for computer graphics, GAMES: Graphics And Mixed Environment Seminar, August 17, 2017
27. Creating realistic simulations for animations and VFX, University of Pennsylvania Computer and Information Science Department Summer Session, July 6, 2017
28. Hybrid methods for computer graphics simulation of snow, sand, water, foam, lava and beyond, University of Pennsylvania Computer and Information Science Department, December 13, 2016
29. Physics-based simulation of deformable solids and fluids, UCLA Human Perception Lab, October 21, 2015.

8 Teaching

1. Course instructor and organizer, On Hybrid Lagrangian-Eulerian Simulation Methods: Practical Notes and High-Performance Aspects, SIGGRAPH 2019
2. Course instructor and organizer, The Material Point Method for Physics Based Simulation: Modeling and Discretization, SIGGRAPH 2016
3. Instructor, Math 269B, UCLA, Winter 2023
4. Instructor, Math 269A, UCLA, Fall 2022
5. Instructor, Math 285J, UCLA, Winter 2022
6. Instructor, Math 151A: Applied Numerical Methods, UCLA, Fall 2021
7. Instructor, CIS 563: Physically Based Animation, UPenn, Spring 2018, Fall 2018, Fall 2019, Fall 2020
8. Instructor, EAS 205: Applications of Scientific Computing, UPenn, Spring 2019, Spring 2020
9. Instructor, CIS 700/006: Special Topics in Computer Graphics, UPenn, Fall 2020
10. Instructor, CIS 700/004: Physics-Based Material Simulation, UPenn, Fall 2017
11. Teaching Assistant, Introduction to C++ Programming (PIC 10A), UCLA, Spring 2012

12. Teaching Assistant, Introduction to C++ Programming (PIC 10A), UCLA, Winter 2012
13. Assistant Lecturer, University of Science and Technology of China, 2009–2010

9 Supervision

Postdocs Supervised

1. Minchen Li, Penn Computer and Information Science Postdoc, 2021.1 - 2021.6, UCLA Mathematics, 2021.7 - Present
2. Ming Gao, Penn Computer and Information Science Postdoc, 2018.8 - 2019.6, next stop: research scientist at Tencent America
3. Andre Pradhana Tampubolon, Penn Computer and Information Science Postdoc, 2017.6 - 2018.7, next stop: software engineer at Dreamworks

PhD Students Supervised

1. Zeshun Zong, UCLA Mathematics, 2021 - Present
2. Xuan Li, UCLA Mathematics, 2021 - Present
3. Yunuo Chen, UCLA Mathematics, 2021 - Present
4. Yuxing Qiu, UCLA Computer Science, 2021 - Present
5. Yadi Cao, UCLA Computer Science, 2021 - Present
6. Ziyin Qu, Penn Computer and Information Science, 2019 - Present
7. Yu Fang, Penn Computer and Information Science, 2018 - Present
8. Joshua Wolper, Penn Computer and Information Science, 2017 - 2021
 - *Dissertation: Material Point Methods for Simulating Material Fracture (Defended 2021/4/22).*
9. Minchen Li, Penn Computer and Information Science, 2018 - 2020
 - *Adobe Fellowship winner 2020*
 - *ACM SIGGRAPH Outstanding Doctoral Dissertation Award winner 2021*
 - *Symposium of Computer Animation (SCA) Doctoral Dissertation Award winner 2021*
 - *Dissertation: Robust and Accurate Simulation of Elastodynamics and Contact (Defended 2020/11/16).*

Master Students Supervised

1. Tianyi Xie, UCLA CS, 2022 - Present
2. Jin Wu, Penn AMCS, 2021
 - *Dissertation: Deep Learning Based Two-grid Preconditioner for Conjugate Gradient Solver*
3. Jiarui Yan, Penn Computer and Information Science, CGGT, 2020 - 2021
 - *Dissertation: A Method Of Applying Graph Neural Network Into Nonlinear Deformation Simulation*
4. Yan Dong, Penn Computer and Information Science, CGGT, 2020 - 2021, next stop: PhD student at Clemson
 - *Dissertation: Neural Projective Dynamics*
5. Yue Li, Penn Computer and Information Science, CGGT, 2018 - 2020, next stop: PhD student at ETHZ

- *Dissertation: Hybrid Eulerian-Lagrangian Topology Optimization*
- 6. Bowen Yang, Penn Computer and Information Science, CGGT, 2018 - 2019, next stop: software engineer at Apple
 - *Dissertation: Efficient Staggered Grid Fluid Simulation Bounded on Sphere Surfaces*
- 7. Ziyin Qu, Penn Scientific Computing Master's, 2017 - 2019, next step: PhD student at UPenn

Undergraduate Students Supervised through Research Projects

1. Jianping Ye, UCLA Math summer REU program, 2021.6-Present
2. Sian Wen, UCLA Math summer REU program, 2021.6-Present
3. Mingxin Li, UCLA Math summer REU program, 2021.6-2021.8
4. Yuchuan Yang, UCLA Math summer REU program, 2021.6-2021.8
5. Zeshun Zong, UCLA Math summer REU program (*exception: as a PhD student researcher), 2021.6-2021.8
6. Haorong Wang, Penn CIS undergraduate student, through TGIA grant, 2020.7-2020.9.
7. Beini Gu, Penn CIS undergraduate student, through TGIA grant, 2020.7-2020.9
8. Enoch Solano-Sanchez, Penn CIS undergraduate student, through TGIA grant, 2019.7-2019.9
9. Saranya Sampath, Penn CIS undergraduate student, through TGIA grant, 2019.7-2019.9
10. Nicholas Magarino, Penn CIS undergraduate student, through TGIA grant, 2019.7-2019.9
11. Sang Lee, Penn CIS undergraduate student, through TGIA grant, 2019.7-2019.9
12. Shenqi Hu, Penn CIS undergraduate student, through TGIA grant, 2019.7-2019.9
13. Thy Tran, Penn CIS undergraduate student, through TGIA grant, 2019.7-2019.9
14. Jiecong Lu, Penn CIS (DMD) undergraduate student, 2018.9-2020.6
15. Meggie Cheng, Penn CIS (DMD) undergraduate student, 2019.9-2020.6
16. Yunuo Chen, University of Science and Technology of China visiting student, 2019.7 - 2019.9
17. Yi Gu, University of Michigan visiting student, 2018.7 - 2018.9
18. Chen Li, University of Science and Technology of China visiting student, 2018.7 - 2018.9
19. Liangzhen Fei, University of Science and Technology of China visiting student, 2018.7 - 2018.9
20. Mark Choi, Penn CIS undergraduate student, 2018.7 - 2018.9
21. Xinyang Zhang, University of California, Los Angeles visiting student, 2018.7 - 2018.9
22. Yuanming Hu, MIT EECS / Tsinghua University visiting student, 2017.7 - 2017.9
23. Hannah Bollar, Penn CIS undergraduate student, 2017.6-2017.12
24. Yu Fang, Tsinghua University visiting undergraduate student, 2017.6-2017.1
25. Ziheng Ge, University of Science and Technology of China visiting student, 2017.6-2017.12
26. Duotun Wang, Beijing Institute of Technology undergraduate student, 2017.7-2017.9
27. Wenting Sun, Penn CIS undergraduate student, 2017.6-2017.9
28. Jason Wang, Penn CIS undergraduate student, 2017.6-2017.9

Visiting Scholars and PhD Students Hosted

1. Johan Gaume, EPFL visiting professor, 2022.5
2. Lars Blatny, EPFL visiting student, 2022.5
3. Xuan Li, State University of New York at Stony Brook, 2019.9 - 2020.8
4. Xinlei Wang, Zhejiang University, 2018.10 - 2020.1
5. Yuxing Qiu, University of California, Los Angeles, 2019.7 - 2020.1
6. Kang Li, Hubei University visiting Professor, 2018.9 - 2019.9
7. Johan Gaume, EPFL visiting professor, 2018.10 - 2018.11
8. Yupeng Jiang, University of Sydney, 2018.10 - 2019.2

PhD Student Committee Served not as the Advisor

1. Xiao Zeng, UCLA CS, 2022
2. Feng Gao, UCLA CS, 2022
3. Nghia Truong, Utah CS, 2019
4. Tiantian Liu, Penn CIS, 2018
5. Ming Gao, UW-Madison CS, 2018

Master Student Thesis Committee Served not as the Advisor

1. Tomoyori Iwao, UCLA CS, 2022
2. Xinling Yu, Penn AMCS, 2021
3. Yaoyi Bai, Penn CGGT, 2018

10 Service

University

1. Faculty Advisor for the Math of Computation Major, Department of Mathematics, UCLA, Fall 2022 - Present
2. Graduate Admission Committee, Department of Mathematics, UCLA, Fall 2022 - Present
3. Computing Committee, Department of Mathematics, UCLA, Fall 2021 - Present
4. PIC Committee, Department of Mathematics, UCLA, Fall 2021 - Present
5. Graduate Advisor, Department of Mathematics, UCLA, Fall 2021 - Present
6. PhD Qual Committee, Department of Mathematics, UCLA, Fall 2021 - Present
7. ABET coordinator, Department of Computer and Information Science, University of Pennsylvania, Fall 2020 - Spring 2021
8. Chair, Penn Institute for Computational Science (PICS) workshop series, 2017-2021

Conference and Workshop Organization

1. Co-Chair, Symposium on Computer Animation (SCA) Conference, 2023
2. Co-chair, 1st Workshop on Simulation Technology for Embodied AI, ICCV 2021
3. Chair, Symposium on Computer Animation (SCA) Showcase Program, 2021
4. Chair, Penn SIG Computer Graphics Colloquium Series, 2020
5. Co-chair, 5th Workshop on Vision Meets Cognition: Functionality, Physics, Intentionality and Causality, CVPR 2019
6. Session Chair, Symposium on Computer Animation (SCA), 2019
7. Co-chair, 2018 PICS Conference on Modern Computational Science, 2018
8. Co-chair, 4th Workshop on Vision Meets Cognition: Functionality, Physics, Intentionality and Causality, CVPR 2018
9. Organizer, The Tristate Workshop on Imaging and Graphics (TWIG) 2018
 - <http://cg.cis.upenn.edu/twig18.html>
10. Co-chair, 3rd Workshop on Vision Meets Cognition: Functionality, Physics, Intentionality and Causality, CVPR 2017
11. Co-chair, 1st Workshop on Virtual Reality meets Physical Reality: Modelling and Simulating Virtual Humans and Environments, SIGGRAPH Asia 2016
12. Co-chair, 2nd Workshop on Physical and Social Scene Understanding, CogSci 2016

Panels

1. NSF Panelist, 2018-2020

Technical Papers Committee

1. ACM SIGGRAPH Asia 2022
2. ACM SIGGRAPH 2020
3. Eurographics 2020
4. ACM SIGGRAPH/Eurographics Symposium on Computer Animation (SCA) 2017, 2019

Reviewer

1. ACM SIGGRAPH
2. ACM SIGGRAPH Asia
3. ACM Transaction on Graphics (TOG)
4. Computer Methods in Applied Mechanics and Engineering (CMAME)
5. Additive Manufacturing
6. Computational Particle Mechanics (CPM)
7. IEEE Transactions on Visualization and Computer Graphics (TVCG)
8. Association for the Advancement of Artificial Intelligence (AAAI)
9. International Conference on Machine Learning (ICML)
10. Eurographics
11. Computer Graphics Forum

12. Pacific Graphics
13. Computer & Graphics
14. Computer Animation and Virtual Worlds
15. Haptics Symposium
16. CAAI Transactions on Intelligent Technology
17. AIMS Inverse Problems and Imaging
18. IEEE Transactions on Biomedical Engineering
19. IEEE Access