

Candidate for Chair

David Irwin
University of Massachusetts Amherst, MA, USA

BIOGRAPHY

Academic Background:

Ph.D., Duke University, 2007, Computer Science.

Professional Experience:

Associate Professor, University of Massachusetts Amherst, Massachusetts, USA, 2019 – Present;

Assistant Professor, University of Massachusetts Amherst, Massachusetts, USA, 2012 – 2019;

Postdoctoral Research Associate, University of Massachusetts Amherst, Massachusetts, USA, 2007 – 2012.

Professional Interest:

Sustainable Computing, Energy Informatics, AI for Climate Change, Cloud and Edge Computing, Internet-of-Things

ACM Activities:

ACM e-Energy Co-General Chair, SIGEnergy, 2022;

ACM e-Energy Steering Committee Member, SIGEnergy, 2018 – 2022;

ACM BuildSys Steering Committee Chair, SIGEnergy, 2019;

ACM e-Energy Co-Technical Program Committee Chair, SIGEnergy, 2018.

Membership and Offices in Related Organizations:

ACM Energy Informatics Review Area Editor, SIGEnergy, 2022 – Present;

ACM BuildSys Steering Committee Member, SIGEnergy, 2017 – 2019;

ACM BuildSys Co-Technical Program Chair, SIGEnergy, 2016.

Awards Received:

Runner-up for ACM Buildsys Best Paper Award, 2021;

Candidate for ACM e-Energy Best Paper Award, 2020;

IEEE IGSCC Best Paper Award, 2020;

Two Finalists for ACM BuildSys Best Paper Award, 2014.

STATEMENT

I am honored to be nominated to run for Chair of SIGEnergy. I have been active in SIGEnergy, its flagship conferences (BuildSys and e-Energy), and its technical

newsletter (Energy Informatics Review) for many years. I have served in numerous organizational roles in the past as noted in my bio. As a result, I have a deep and broad understanding of the SIGEnergy community, including where it has been and a vision for where it should go. As the impacts of climate change become more visible and acute, SIGEnergy is poised to become the primary technical community for applying computing methodologies to design more sustainable energy systems.

SIGEnergy's mission is particularly important in bringing together researchers from other computing research communities and related disciplines with a specific emphasis on optimizing energy systems. To continue SIGEnergy's success and deliver on this mission, my goals as chair would be to increase SIGEnergy's visibility, membership, and impact by i) providing more opportunities for student participation in conferences, ii) strengthening ties with industry and increasing sponsorship, iii) expanding interactions with related SIGs and conferences, and iv) promoting diversity and inclusion, both for those conducting research and in research being conducted.

Candidate for Chair

Sebastian Lehnhoff
University of Oldenburg, Germany

BIOGRAPHY

Academic Background:

Doctorate (Dr. rer. nat.), Technical University of Dortmund, 2009, Computer Science.

Professional Experience:

Full Professor, University of Oldenburg, Germany, 2016 – Present
Chairman of the Board, OFFIS Institute for Information Technology, Oldenburg, Germany, 2020 – Present;
Director, School of Computing Science, University of Oldenburg, Germany, 2019 – 2021.

Professional Interest:

Energy Informatics, Energy System Automation, Energy System Co-Simulation, Cyber-physical Energy Systems, Open Source Software Development in the Energy Sector.

ACM Activities:

Steering Committee Chair, ACM E-Energy, 2019 – 2022;
EXC member, ACM SIGEnergy, 2022 – Present;
TPC chair, ACM E-Energy, 2018 – 2019.

Membership and Offices in Related Organizations:

Speaker of the SIG Energy Informatics, German Informatics Society, 2012 – 2019;
Honorary Professor, School of Information Technology and Electrical Engineering, 2016 – 2019;
Executive Board Member, Energy Research Centre of the federal state of Lower Saxony, 2019 – Present.

Awards Received:

Member of the Berlin-Brandenburg Academy of Sciences (BBAW), 2020.
Member of the German Academy of Science and Engineering (acatech), 2019.

STATEMENT

I am honored to have been asked, and it is my great pleasure to run for the SIGEnergy Chair position. I have been a member and active ACM volunteer in the SIG's core community for more than 10 years now, contributing my share to the success of SIGEnergy and its flagship conference E-Energy. My research is focused on the large-scale integration of decentralized, renewable energy sources into the power grid and the

politically/regulatorily motivated reorganization of corporate structures and business processes. My energy informatics working group in Oldenburg investigates and develops ICT technologies for a future-proof, robust, and profitable power supply system based on renewable energies' so-called smart grids.

I believe that ACM SIGEnergy is in a unique position to facilitate internationally recognized contributions in research, development, and qualification of young researchers at the intersection of computer science, and electrical engineering. I am committed to strengthening the leadership role of ACM SIGEnergy in the growing field of Energy Informatics.

Candidate for Vice Chair

Minghua Chen
City University of Hong Kong, Hong Kong

BIOGRAPHY

Academic Background:

Ph.D., University of California Berkeley, 2006, Electrical Engineering and Computer Sciences.

Professional Experience:

Professor, City University of Hong Kong, Hong Kong, 2019 – Present;
Associate Professor, The Chinese University of Hong Kong, Hong Kong, 2013 – 2019;
Assistant Professor, The Chinese University of Hong Kong, Hong Kong, 2007 – 2013.

Professional Interest:

Machine learning in real-time optimization, e.g., grid operation, Online optimization with prediction, Carbon-efficient transportation, Delay-critical networked systems, Distributed optimization.

ACM Activities:

Executive Committee member and Award Chair, EIGEnergy/SIGEnergy, 2018 – Present;
MobiHoc TPC Co-Chair, SIGMOBILE, 2019 – 2020;
ACM e-Energy steering committee chair, EIGEnergy/SIGEnergy, 2018 – 2020;
ACM e-Energy general chair, EIGEnergy/SIGEnergy, 2016 – 2017.

Membership and Offices in Related Organizations:

IEEE Systems Journal Senior Editor, IEEE, 2022 – Present;
IEEE/ACM IWQoS TPC Co-Chair, IEEE and ACM, 2022 – Present;
IEEE/ACM Trans. on Networking Associate Editor, IEEE and ACM, 2014 – 2018.

Awards Received:

Fellow of IEEE, 2021;
ACM Distinguished Scientist, 2020;
ACM Multimedia Best Paper Award, 2012;
IEEE Transactions on Multimedia, Prize Paper Award (Best Paper), 2009.

STATEMENT

I have had the privilege of being deeply associated with the ACM SIGEnergy community in my academic career. Over the years, I have witnessed and contributed to the

establishment of EIG-Energy and SIGEnergy and have been actively involved in various capacities. I have served as TPC Co-Chair, General Chair, and Steering Committee Chair of ACM e-Energy, as well as Executive Committee Member and Award Chair for ACM SIGEnergy.

Through these varied positions, I have gained a wealth of experience and knowledge, which has prepared me well for serving the SIGEnergy community as Vice Chair. My endeavors have been driven by a passion for technological advancements in the field of energy systems and informatics, and a commitment to promoting collaboration, inclusivity, and knowledge sharing within the community.

If elected, I will leverage my experience and expertise to advance the objectives of SIGEnergy. I will prioritize community engagement, diversity and inclusion, and knowledge dissemination, and will work collaboratively with all members to ensure that SIGEnergy continues to thrive. Thank you for your consideration.

Candidate for Vice Chair

Xiaofan Jiang
Columbia University, New York, USA

BIOGRAPHY

Academic Background:

Ph.D., University of California, Berkeley, 2010, Computer Science.

Professional Experience:

Associate Professor, Columbia University, New York, USA, 2015 – Present;
Chair of Smart Cities Center, Data Science Institute, Columbia University, New York, USA, 2015 – Present;
Director of Analytics and IoT Research, Intel Labs China, Beijing, China, 2012 – 2014.

Professional Interest:

Intelligent built environments, Embedded systems, Internet of Things and Cyber-Physical Systems, Intelligent sensing systems, Connected health.

ACM Activities:

Treasurer, SIGEnergy, 2020 – Present;
General Chair, ACM/IEEE IPSN, 2022 – Present;
TPC co-Chair, ACM e-Energy, 2022 – Present;
Steering Committee Chair, ACM BuildSys, 2022 – Present.

Membership and Offices in Related Organizations:

TPC co-Chair of AI/ML Track, IEEE MASS, 2022;
Program Committee, ACM/IEEE IPSN, 2018;
Guest Editor, IEEE Pervasive, 2018.

Awards Received:

Best Demo Award, ACM SenSys, 2021;
Best Paper Award, IEEE ITEC, 2021;
Best Demo Award, ACM/IEEE IPSN, 2020;
NSF CAREER Award, 2020.

STATEMENT

I am honored and privileged to have this opportunity to run for the Vice Chair position of ACM SIGEnergy. SIGEnergy is a young but growing community. I was fortunate to be involved at the inception of this group, initially as the EIGEnergy, and have witnessed

the excitement and commitment of everyone that helped to bring this community together.

I have been serving as the founding Treasurer of SIGEnergy since 2020 and have gained insights into the operations of sponsored conferences and various SIG activities. I have also served as General Chair and TPC Chair for major conferences such as SenSys, IPSN, e-Energy, and BuildSys. I welcome the opportunity to serve the community as Vice Chair and help SIGEnergy continue to thrive.

As Vice Chair, I aim to further grow the community by sponsoring conferences and events, promoting student activities, broadening participation, and engaging with academic and industrial partners.

I am confident that together, we can continue to grow SIGEnergy, and position energy informatics as a key area in the future of computing.

Candidate for Treasurer

Omid Ardakanian
University of Alberta, Edmonton, AB, Canada

BIOGRAPHY

Academic Background:

Ph.D., University of Waterloo, Canada, 2015, Computer Science.

Professional Experience:

Assistant Professor, University of Alberta, Edmonton, AB, Canada, 2017 – Present;
Postdoctoral Fellow, University of British Columbia, Vancouver, BC, Canada,
2016 – 2017;
Postdoctoral Fellow, University of California, Berkeley, CA, USA, 2015 – 2016.

Professional Interest:

Sensor Networks, Embedded and Cyber-Physical Systems, Energy Informatics,
Control Systems, Reinforcement Learning.

ACM Activities:

Information Services Director, ACM SIGEnergy, 2020 – Present;
Steering Committee Member, ACM e-Energy, 2022 – Present;
Area Editor, ACM SIGEnergy Energy Informatics Review, 2021 – Present;
Technical Program Committee Co-chair, ACM e-Energy, 2021.

Membership and Offices in Related Organizations:

Organizer, IFIP Performance Workshop on Performance and Modelling of Energy,
2020;
Co-Organizer, IEEE Smartgridcomm Workshop on Synchrophasor Data Analytics,
2019;
Guest Editor, IEEE Transactions on Smart Grid, 2018 – 2019.

Awards Received:

Best paper award, ACM BuildSys, 2022;
Best paper award, IEEE Power & Energy Society General Meeting, 2017;
Best paper award, ACM BuildSys, 2016;
Best paper award, ACM e-Energy, 2013.

STATEMENT

It is my great pleasure to run for the Treasurer position of ACM SIGEnergy. I have been an active member of SIGEnergy since its inception and have had the privilege of serving the community in various capacities, from organizing conferences and workshops, to serving on the editorial board of SIGEnergy's newsletter and the steering committee of ACM e-Energy, which is sponsored by the SIG.

SIGEnergy is a growing and vibrant community. It brings together an interdisciplinary group of computer scientists and professionals who share an interest in reducing the carbon footprint of computing and using computing for sustainability. In my role as Treasurer, I would work closely with the Executive Committee and our members to:

- Sponsor energy-related educational activities and mentoring programs for students and early career researchers;
- Support equity-seeking individuals to participate in SIG sponsored events;
- Grow and diversify our membership;
- Promote the SIG within and outside CS.

I would welcome ideas and suggestions to better serve the community.

Candidate for Treasurer

Kirk W. Cameron
Virginia Tech Innovation Campus, Alexandria, VA, USA

BIOGRAPHY

Academic Background:

Ph.D., Louisiana State University, 2000, Computer Science.

Professional Experience:

Faculty Lead (Department Head), Virginia Tech Innovation Campus, Alexandria, Virginia, USA, 2022 – Present;

Associate Department Head, Virginia Tech, Blacksburg, Virginia, USA, 2014 – 2022;

Professor, Virginia Tech, Blacksburg, Virginia, USA, 2012 – Present.

Professional Interest:

Energy efficiency, High-performance computing, Parallel and distributed systems, Compute servers, Datacenters.

ACM Activities:

General Chair, ACM CCGrid 2024, 2022 – Present;

General Chair, ACM e-Energy 2023, 2022 – 2023;

General Chair, ACM ICS 2022, 2021 – 2022;

TPC Vice Chair, ACM SC 2015, 2014 – 2015.

Membership and Offices in Related Organizations:

Founding member, SPEC Power, 2005 – Present;

Co-founder, The Green500 List, 2006 – Present;

Associate Editor, IEEE Transactions on Parallel and Distributed Systems, 2018 – Present.

Awards Received:

IEEE Fellow, 2021;

ACM Distinguished Scientist, 2017;

ACM HPDC Karsten Schwan Best Paper Award, 2017;

LLNL Deputy Director's Science/Tech Excellence Award, 2017.

STATEMENT

SIGEnergy represents a broad array of participants that seek to improve the efficiency of computing from the application layer down to the middleware and

systems hardware. As a computing energy-efficiency researcher for two decades, I believe my experiences as an energy efficiency startup founder, as a founding member of SPEC Power, and as co-founder of The Green500 List, help me bring a unique perspective to our community. I also hope to bring my successful fiscal management as General Chair for ACM ICS 2022 and ACM e-Energy 2023 to the role of Treasurer for SIGEnergy.

My goals as treasurer will be:

- 1) Support the SIGEnergy community by demonstrating fiscal responsibility and ingenuity potentially identifying new streams of revenue through sponsorship while working to grow membership.
- 2) Providing support to leadership, constituents, and stakeholders to elevate the SIGEnergy brand and provide opportunities for meaningful participation in SIGEnergy activities.
- 3) To serve the SIGEnergy community by contributing ideas and opportunities that leverage my vast experience in energy-related academic and corporate engagement and outreach.
- 4) Help to broaden participation in SIGEnergy by identifying and targeting constituencies that may be historically underrepresented for recruitment to SIGEnergy.