Call for papers

Network Algorithms and Performance Evaluations Symposium (NAPE)

IEEE ICNC 2024

Big Island, Hawaii, USA, Feb 19-22, 2024

http://www.conf-icnc.org/2024

Symposium Co-Chairs

Roberto Rojas-Cessa, New Jersey institute of Technology (NJIT), USA (rojas@njit.edu)

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Scope

The Network Algorithms and Performance Evaluation (NAPE) Symposium focuses on topics related to all aspects of network algorithms and evaluation techniques. Papers reporting on novel, practical and theoretical solutions to routing, topology control, energy-aware design, security modeling, testing on testbeds, and large-scale performance models are of special interests. To ensure complete coverage of the advances in algorithms and performance analysis techniques for current and future systems, the symposium solicits original contributions in, but not limited to, the following topical areas:

- Algorithms in Software Defined Networking
- Performance, quality of service, and quality of experience in multimedia applications.
- Adaptive and Asymmetric Routing
- Admission and Congestion Controls
- Cognitive Protocol Designs and Evaluations
- Dynamic Bandwidth Allocation
- Energy-Efficient Protocols
- Localization and Mobility Management
- Localized Algorithms for Data Routing
- Localized Algorithms for Network Configuration
- Network Coding
- Network Performance and Protocol Optimization
- Network Planning and QoS Provisioning
- Network Survivability
- Performance and Reliability Tradeoffs
- Performance Modeling and Analysis Techniques
- Performance Models for Voice, Video, Data, and P2P
- Performance Models of Cloud Based Services
- Performance of Overlay Networks & Over the Top Services
- Resource Allocation and Scheduling
- Simulation Methods and Tools
- Traffic Monitoring, Measurements and Forecasting
- Intelligent Vehicular Networking
- Algorithms assisted by Machine and Deep Learning
- Underwater Networking Algorithms
- Testing of network security algorithms

- Testing and evaluation of quantum networking
- Testbeds of network algorithms

Submission Guidelines

Instructions for manuscript preparation for perspective authors are available at http://www.conf-icnc.org/2024/author.htm . All papers must be submitted via EDAS. Submission information can be found at http://www.conf-icnc.org/2024/cfp.htm.

Short Biographies of Co-Chairs

Roberto Rojas-Cessa received the M.S. and Ph.D. degrees in computer and electrical engineering, respectively from Polytechnic University (currently, Tandon School of Engineering, New York University), Brooklyn, NY, USA. He is currently a Professor with the Department of Electrical and Computer Engineering, New Jersey Institute of Technology (NJIT). He authored the books "Advanced Internet Protocols, Services, and Applications," (Wiley, 2012) and "Interconnections for Computer Communications and Packet Networks" (CRC Press, 2017). His research interest includes the wide area of networking, cyber-physical systems, energy, intelligent systems and learning, e-health and biological sensors, virtual reality, and emergency communications and systems. He serves in different capacities for IEEE conferences and specialized journals as reviewer and editor, and as a Panelist for U.S. National Science Foundation and U.S. Department of Energy. He was the General Chair of IEEE Sarnoff Symposium 2011 and IEEE International Conference on High Performance Switching and Routing 2020. In addition, he has been a Technical Program Committee Chair of the two flagship conferences of the Communications Society: International Conference on Communications (ICC) and Global Communications (Globecom). He is a recipient of the Excellence in Teaching Award from the Newark College of Engineering at NJIT and the New Jersey Inventors Hall of Fame—Innovators Award. He was an Invited Fellow of the Japanese Society for the Advancement of Science in 2009 at University of Electro-Communications, Chofu, Japan from 2009 to 2010. He was the recipient of the Excellence Progress in Research by the Dept. of Electrical and Computer Engineering.

Zehui Xiong is currently an Assistant Professor at Singapore University of Technology and Design, and also an Honorary Adjunct Senior Research Scientist with Alibaba-NTU Singapore Joint Research Institute, Singapore. He received the PhD degree in Nanyang Technological University (NTU), Singapore. He was the visiting scholar at Princeton University and University of Waterloo. His research interests include wireless communications, Internet of Things, blockchain, edge intelligence, and Metaverse. He has published more than 150 research papers in leading journals and flagship conferences and many of them are ESI Highly Cited Papers. He has won over 10 Best Paper Awards in international conferences and is listed in the World's Top 2% Scientists identified by Stanford University. He is now serving as the editor or guest editor for many leading journals including IEEE Journal on Selected Areas in Communications, IEEE Transactions on Vehicular Technology, IEEE Internet of Things Journal, IEEE Transactions on Cognitive Communications and Networking, and IEEE Transactions on Network Science and Engineering. He is the recipient of IEEE Early Career Researcher Award for Excellence in Scalable Computing, IEEE Technical Committee on Blockchain and Distributed Ledger Technologies Early Career Award, IEEE Internet Technical Committee Early Achievement Award, IEEE TCI Rising Star Award, IEEE TCCLD Rising Star Award, IEEE Best Land Transportation Paper Award, IEEE CSIM Technical Committee Best Journal Paper Award, IEEE SPCC Technical Committee Best Paper Award, IEEE VTS Singapore Best Paper Award, Chinese Government Award for Outstanding Students Abroad, and NTU SCSE Best PhD Thesis Runner-Up Award. He is now serving as the Associate Director of Future Communications R&D Programme.