

THE IEEE IS COMPRISED OF 38 TECHNICAL SOCIETIES. ONE OF THE OLDEST OF THESE IS THE SYSTEMS, MAN, AND CYBERNETICS SOCIETY WHICH WAS ESTABLISHED IN 1970. THE SMC SOCIETY FOCUSES ON THE INTERACTION OF MULTIPLE SYSTEMS, PROCESSES, AND HUMANS WITH EMPHASIS ON THEIR UNDERSTANDING, MODELING, DESIGN, AND FORMALIZATION. THE INTEGRATION OF ARTIFICIAL AND BIOLOGICAL INTELLIGENCE, AS WELL AS THE INTERFACING OF COMPLEX SYSTEMS WITH HUMANS, ARE FUNDAMENTAL CHALLENGES THAT ADDRESS A WIDE ARRAY OF TOPICS IN CURRENT AND EMERGING RESEARCH AND APPLICATIONS.

Publications

The SMC Society publishes three Transactions. Part A features papers concentrating on humans and systems whereas Part B concentrates especially on cybernetics and computational intelligence. Part C complements Part A and Part B by publishing high quality review and application papers.

Awards

The SMC Society recognizes outstanding volunteers and their significant achievements by presentation of awards for outstanding career, significant contributions to research, best transactions paper, best associate editor, best paper at the annual conference, best student paper at the annual conference, most active technical committee, outstanding chapter, and outstanding contributions. These awards are presented annually at the IEEE International Conference on Systems, Man, and Cybernetics.

Conferences

The IEEE International Conference on Systems, Man, and Cybernetics is the flagship conference sponsored and organized by the SMC Society and its volunteer members since 1971. It is held annually in venues that alternate between the Americas, Europe/Africa, and Asia/Pacific Rim. It features a world-class forum for all aspects of systems engineering, human-machine systems and human-machine interaction, and cybernetics. In addition to its annual conference, the SMC Society sponsors, co-sponsors, and technically co-sponsors a large and increasing number of specialist conferences worldwide.

Technical Committees

Technical Committees (TCs) support technical activities in special interest areas. TC members exchange their research and present it by organizing conferences and workshops, forming special sessions at conferences sponsored by the SMC Society, and planning special issues of the IEEE Transactions on Systems, Man, and Cybernetics.

Student Activities

The SMC Society values student involvement. Students are provided an opportunity to volunteer at the SMC annual conferences where their registration fees are waived in return for their services. In addition, the SMC Society offers travel stipends to student members to attend the annual conferences. Students are encouraged to organize an SMC Student Branch Chapter that receives assistance and financial support from the SMC Society for activities.

SMC Chapters

SMC Chapters consist of SMC Society members who share geographical proximity. Chapters provide its members with valuable opportunities to network locally, thereby enabling their personal and professional growth. Members of SMC chapters conduct meetings, workshops, seminars and conferences within the fields of interest of the SMC Society as well as social activities.

THE MISSION OF THE SYSTEMS, MAN, AND CYBERNETICS SOCIETY IS TO SERVE THE INTERESTS OF ITS MEMBERS AND THE COMMUNITY AT LARGE BY PROMOTING THE THEORY, PRACTICE, AND INTERDISCIPLINARY ASPECTS OF SYSTEMS SCIENCE AND ENGINEERING, HUMAN-MACHINE SYSTEMS, AND CYBERNETICS.

The key values of the SMC Society

- Membership: Maximize the value of being a member
- Professionalism: Advance knowledge and professional development
- Excellence: Deliver high quality and relevant services and products
- Integrity: Act with honesty and fairness
- Collaboration: Achieve results and excellence through teamwork
- Communication: Promote honest and transparent interactions
- Diversity: Embrace diversity of members and their ideas
- Empowerment: Empower volunteers and value their contributions
- Equality: Provide equal opportunities to all members
- 8• Respect: Practice respectfulness in all relationships

Part A: Systems and Humans

The scope of the IEEE Transactions on Systems, Man, and Cybernetics, Part A: Systems and Humans includes the fields of systems science and engineering, and human-machine systems. For systems science and engineering, this includes issue formulation, analysis and modeling, decision making, and issue interpretation for any of the lifecycle phases associated with the definition, development, and deployment of large systems. In addition, it includes systems management, systems engineering processes, and a variety of systems engineering methods such as optimization, modeling and simulation. For human-machine systems, Part A covers human systems and human organizational interactions including cognitive ergonomics, system test and evaluation, and human information processing concerns in systems and organizations.

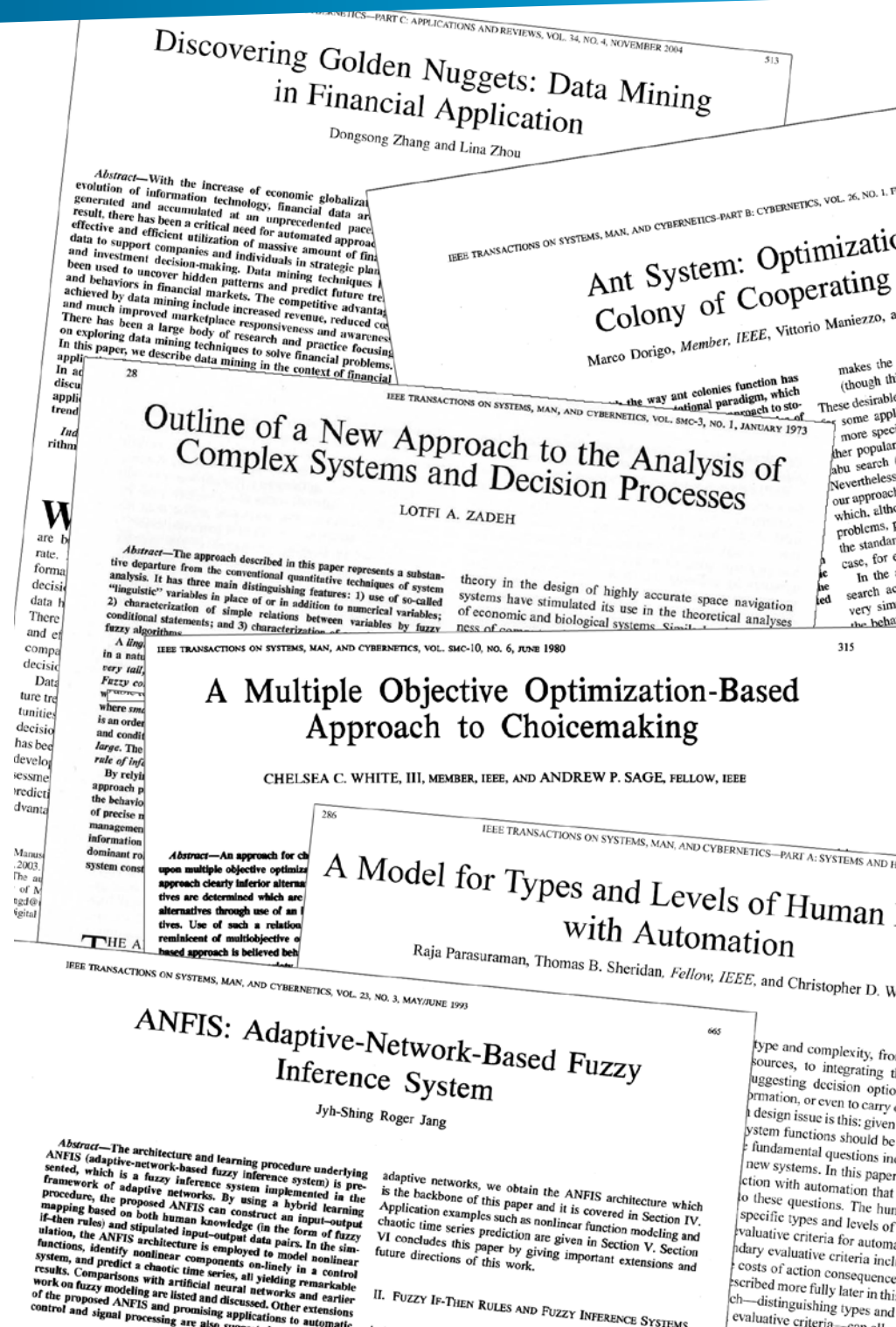
Part B: Cybernetics

The scope of the IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics emphasizes computational approaches to the field of cybernetics. Specifically, the Transactions welcomes papers on communication and control across machines or between machines, humans, and organizations. The scope of Part B includes topics such as computational intelligence, computer vision, neural networks, genetic algorithms, machine learning, fuzzy systems, cognitive systems, decision making, and robotics, to the extent that they contribute

to the theme of cybernetics or demonstrate the use of cybernetics principles.

Part C: Applications and Reviews

IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews presents overview, tutorial, and application papers related to all areas of interest to the SMC Society: systems science and engineering, human-machine systems, and cybernetics and computational intelligence. Book reviews of interest are also published.



For more information
visit the SMC Society website
www.ieeesmc.org



Systems, Man, and Cybernetics Society