

# SMC Society Annual Awards

- Loti A. Zadeh Pioneer Award
- Norbert Wiener Outstanding Research Award
  
- Joseph G. Wohl Outstanding Career Award
- Outstanding Contribution Award
- Early Career Award
- Meritorious Service Award
- Outstanding Service to Humanity Award
  
- Andrew P. Sage Best Transactions Paper Award
- IEEE SMC Best Associate Editor Award
  
- IEEE Most Active SMC Technical Committee Award
- IEEE Outstanding SMC Chapter Award
- IEEE Outstanding SMC Student Branch Chapter Award
  
- Franklin V. Taylor Memorial Award (best annual conference paper)
- Outstanding SMC Student Paper Award



## 2021 Technical Achievement Awards

- **Lotfi Zadeh Award** – Prof. Jerry Mendel, USC: *For developing and promoting Type 2 Fuzzy Logic*

Prof. Jerry Mendel was an early fuzzy pioneer and later developed/popularized Type 2 Fuzzy logic. He has had an impactful career and was a unanimous choice as a highest quality candidate

- **Norbert Wiener Award** - Professor Qing-Long Han, Swinburne University of Technology: *For contributions to networked control and multi-agent systems*

Professor Han has an outstanding research record and has received many acknowledgements of it. He is a world-leading expert on networked control and multi-agent systems. He has over three decades of research experience across academia and industry



## 2021 Outstanding Service Awards

- **Joseph G. Wohl Outstanding Career Award:**

- Philip Chen, South China University of Technology - for long term contributions to SMCS and IEEE

- **Outstanding Contribution Awards:**

- Imre Rudas, 2020-2021 SMC Society President
- David Kaber, EiC Transactions on Human-Machine Systems (2016-2020)
- Fei-Yue Wang, EiC Transactions on Computational Social Systems (2017-2020)
- Mariagrazia Dotoli, EiC eNewsletter (2016-2020)

- **Meritorious Service Awards:**

- Giancarlo Fortino
- Ferat Sahin



## 2021 Andrew P. Sage Best Transactions Paper Award

- **Characterizing the Propagation of Situational Information in Social Media During COVID-19 Epidemic: A Case Study on Weibo**, IEEE Transactions on Computational Social Systems, 7(2), 556-562, 2020.

Authors: Lifang Li, Qingpeng Zhang, Xiao Wang, Jun Zhang, Tao Wang, Tian-Lu Gao, Wei Duan, Kelvin Kam-fai Tsoi and Fei-Yue Wang

- **Neural Networks-Based Adaptive Finite-Time Fault-Tolerant Control for a Class of Strict-Feedback Switched Nonlinear Systems**, IEEE Transactions on Cybernetics, 49(7), 2536-2545, 2019.

Authors: Lei Liu, Yanjun Liu, and Shaocheng Tong

- **A Smartphone-Based Adaptive Recognition and Real-Time Monitoring System for Human Activities**, IEEE Transactions on Human-Machine Systems, 50(5), 414-423, 2020.

Authors: Wen Qi, Hang Su, and Andrea Aliverti

- **Blockchain-enabled Smart Contracts: Architecture, Applications, and Future Trends**, IEEE Transactions on Systems, Man, and Cybernetics: Systems, 49(11):2266-2277, 2019.

Authors: Shuai Wang, Liwei Ouyang, Yong Yuan, Xiaochun Ni, Xuan Han and Fei-Yue Wang

## 2021 Best AE Awards

### **IEEE Transactions on Systems, Man and Cybernetics: Systems**

Choon Ki Ahn, School of Electrical Engineering, Korea University, Seoul 136-701, South Korea

### **IEEE Transactions on Cybernetics**

Swagatam Das, Electronics and Communication Sciences Unit, Indian Statistical Institute, Kolkata 700108, India

### **IEEE Transactions on Human-Machine Systems**

Mei-Ling Shyu, Department of Electrical and Computer Engineering, University of Miami, Coral Gables, FL 33124 USA.

### **IEEE Transactions on Computational Social Systems**

Zhe Wan, The Belt and Road School, Beijing Normal University, Beijing, China



- **2021 Committee/Chapter Awards**

## **Outstanding SMC Chapter**

- ACT (Australian Capital Territory) Chapter

For outstanding activities promoting SMC fields of interest via seminars, workshops and conferences

**Chair: Fangbao Tian; Co-Chairs: Huadong Mo, Daoyi Dong**



# 2021 Most Active TCs Awards

**Cybernetics:** TC on Computational Collective Intelligence.

Chairs: Ngoc Thanh Nguyen, Costin Badica, David Camacho

**Systems:** TC on Intelligent Systems to Human-Aware Sustainability

Chairs: Ying (Gina) Tang, Hui Yu, Mariagrazia Dotoli, Congbo Li

**HMS:** TC on Interactive and Wearable Computing and Devices

Chairs: Peter X. Liu, Giancarlo Fortino, Mehmet Rasit Yuce, Dongyi Chen



**2021 Franklin V. Taylor Memorial Award  
(best SMC'2021 annual conference paper)**

**341. Stephen Adams; Tyler Cody; Peter Beling  
Pareto-Optimal Active Learning with Cost**





## 2021 Franklin V. Taylor Memorial Award (best SMC'2021 annual conference paper Award runners up)

673. Lemmer, Markus; Shu, Jingzhe; Schwab, Stefan; Hohmann, Soeren; Maneuver Based Modeling of Driver Decision Making Using Game-Theoretic Planning Cost

754. Petit, Louis; Lussier Desbiens, Alexis; RRT-Rope: A Deterministic Shortening Approach for Fast Near-Optimal Path Planning in Large-Scale Uncluttered 3D Environments

807. De Blasi, Stefano; Neifer, Alexander; Gepperth, Alexander; Multi-Pronged Safe Bayesian Optimization for High Dimensions

994. Rakhmatulin, Viktor; Altamirano Cabrera, Miguel; Hagos, Fikre; Oleg Sautenkov, Oleg; Tirado, Jonathan; Uzhinsky, Ighor; Tsetserukou, Dzmitry; CoboGuider: Haptic Potential Fields for Safe Human-Robot Interaction

## 2021 Outstanding SMC Student Paper Award

**754. Louis Petit; Alexis Lussier Desbiens**

**RRT-Rope: A Deterministic Shortening Approach for Fast Near-Optimal Path Planning in Large-Scale Uncluttered 3D Environments**



## 2021 Outstanding SMC Student Paper Award runners up

130. Bischoff, Esther; Teufel, Jonas; Inga, Jairo; Hohmann, Soeren; Towards Interactive Coordination of Heterogeneous Robotic Teams -- Introduction of a Reoptimization Framework

414. Liu, Junjie; Fei, Lunke; Jia, Wei; Zhao, Shuping; Wen, Jie; Teng, Shaohua; Wei, Zhang; Discrete Semantic Embedding Hashing for Scalable Cross-Modal Retrieval

626. Sun, Yuwei; Chong, Ng; Ochiai, Hideya; Information Stealing in Federated Learning Systems Based on Generative Adversarial Networks

868. Sealy, William; Feigh, Karen; Impact of Missing Information and Strategy on Decision Making Performance



## IEEE Brain Technical Community

Is proud to presents its

### Best Paper Award

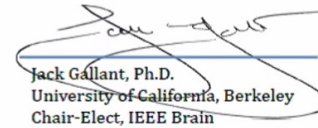
to

**Joseph P. Distefano, Hemanth Manjunatha,  
Souma Chowdhury, Karthik Dantu, David  
Doermann, and Ehsan T. Esfahani**

For their paper entitled "*Using Physiological Information to Classify Task Difficulty in Human-Swarm Interaction*", published in the Proceedings of the **2021 IEEE International Conference on Systems, Man, and Cybernetics, 17-20 October 2021 • Virtual**



Paul Sajda, Ph.D.  
Columbia University  
Chair, IEEE Brain



Jack Gallant, Ph.D.  
University of California, Berkeley  
Chair-Elect, IEEE Brain

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### Best Paper Award

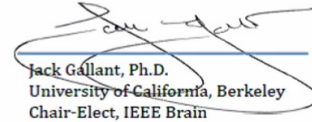
to

### Ariki Sato and Shintaro Nakatani

For their paper entitled "*Non-contact brain-computer interface based on steady-state pupil light reflex using independent bilateral eyes stimulation*", presented at the **IEEE SMC 11<sup>th</sup> Workshop on Brain-Machine Interface (BMI) Systems** and published in the Proceedings of the **2021 IEEE International Conference on Systems, Man, and Cybernetics, 17-20 October 2021 • Virtual**



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