



IEEE
WCCI 2020
IEEE World Congress on Computational Intelligence
Virtual Conference – July 19-24, 2020



2020 IEEE Congress on
Evolutionary Computation (CEC)

2020 IEEE International Conference on
Fuzzy Systems (FUZZ-IEEE)

2020 International Joint Conference on
Neural Networks (IJCNN)

2020 AWARD PROGRAMME

Please visit website for more information!
wcci2020.org

SPONSORS AND ORGANIZERS



1. IEEE CIS awards presented by Bernadette Bouchon-Meunier, 2020–2021 IEEE CIS President

- » 2019 IEEE CIS Neural Networks Pioneer Award presented to **Yoshua Bengio** «for fundamental contributions to neural network based natural language processing»
- » 2020 Meritorious Service Award presented to **Pau-Choo Julia Chung** «for contributions to the membership development of the Computational Intelligence Society»
- » 2020 Early Career Award presented to **Julian Togelius** «for contributions to the field of Computational Intelligence and Games»
- » 2020 Outstanding PhD Dissertation Award presented to **Zhen Ni** «for the dissertation entitled “Goal Representation Adaptive Dynamic Programming for Machine Intelligence”, University of Rhode Island, Aug 2015»

2. IEEE CIS awards presented by James M. Keller, 2017–2020 IEEE CIS Vice-President for Publications

- » 2020 IEEE Transactions on Evolutionary Computation Outstanding Paper Award presented to **Hisao Ishibuchi** for the paper co-authored by **Yu Setoguchi**, **Hiroke Masuda** and **Yusuke Nojima** entitled “Performance of Decomposition-Based Many-Objective Algorithms Strongly Depends on Pareto Front Shapes”, IEEE Transactions on Evolutionary Computation, vol. 21, no. 2, pp. 169 – 190, April 2017.
- » 2020 IEEE Transactions on Fuzzy Systems Outstanding Paper Award is presented to **Feng Bao** for the paper co-authored by **Yue Deng**, **Zhiquan Ren**, **Qionghai Dai** and **Yuyong Kong** entitled “A Hierarchical Fused Fuzzy Deep Neural Network for Data Classification”, IEEE Transactions on Fuzzy Systems, vol. 25, no. 4, pp. 1006–1012, August 2017.
- » 2020 IEEE Transactions on Cognitive and Developmental Systems Outstanding Paper Award is presented to **Dongbin Zhao** for the paper co-authored with **Yaran Chen** and **Le Lv** entitled “Deep Reinforcement Learning With Visual Attention for Vehicle Classification”, IEEE Transactions on Cognitive and Developmental Systems, vol. 9, no. 4, pp. 356 – 367, December 2017.
- » 2020 IEEE Computational Intelligence Magazine Outstanding Paper Award presented to **Ye Tian** for the paper co-authored with **Ran Cheng**, **Xingyi Zhang** and **Yaochu Jin**, entitled “PlatEMO: A MATLAB Platform for Evolutionary Multi-Objective Optimization”, IEEE Computational Intelligence Magazine, vol. 12, no. 4, pp. 73–87, November 2017

3. 2020 IEEE Fellow Class – CIS

Hussein Abbass
Krzystof Cios
Zhongsheng Hou
Tianzi Jiang
F. Karray
Hak-Keung Lam
Yun Li
Xiaodong Li
Ujjwal Maulik
Yong Song
Zhigang Zeng
Dongbin Zhao

4. Tie exchange ceremony between Bernadette Bouchon-Meunier, IEEE CIS President, and Irwin King, INNS President.

5. INNS Awards presented by Irwin King, 2019–2020 INNS President

- » 2020 Dennis Gabor Award presented to **Dr. Danil Prokhorov** in recognition of outstanding achievements in neural engineering
- » 2020 Aharon Katzir Young Investigator Award presented to **Prof. Sheng Li** in recognition of outstanding achievements as a promising young investigator in the field of neural networks
- » 2020 Ada Lovelace Service Award presented to **Prof. DeLiang Wang** in recognition of outstanding meritorious services to the neural community
- » 2020 Neural Networks Best Paper Award presented to **Stephen Grossberg** towards solving the hard problem of consciousness: The varieties of brain resonances and the conscious experiences that they support
- » 2020 Doctoral Dissertation Award is awarded to **Dr. Xiaowei Gu** for his thesis “Self-Organising Transparent Learning System”

6. IEEE WCCI 2020 Awards presented by Asim Roy (IJCNN Conference Chair), Yaochu Jin (CEC Conference Chair), Hak-Keung Lam (FUZZ-IEEE Technical Co-Chair)

Best Overall Paper Awards & Best Student Paper Awards

IJCNN Best Student Paper Award

- » Graph Convolutional Networks for Target-oriented Opinion Words Extraction with Adversarial Training
Yan Zhou, Wei Jiang, Po Song, Yipeng Su, Tao Guo, Jizhong Han and Songlin Hu

IJCNN Best Paper Award

- » A Neurobiological Schema Model for Contextual Awareness in Robotics
Tiffany Hwu, Hirak Kashyap and Jeffrey Krichmar

IEEE CEC Best Student Paper Award

- » A Decomposition-based Large-scale Multi-modal Multi-objective Optimization Algorithm
Yiming Peng and Hisao Ishibuchi

IEEE CEC Best Paper Award

- » Evolution of Complex Coordinated Behavior
Padmini Rajagopalan, Kay E. Holekamp and Risto Miikkulainen

FUZZ-IEEE Best Student Paper Award

- » Multiobjective Fuzzy Genetics-Based Machine Learning for Multi-Label Classification
Yuichi Omozaki, Naoki Masuyama, Yusuke Nojima and Hisao Ishibuchi

FUZZ-IEEE Best Paper Award

- » The Concept of Detecting and Classifying Anomalies in Large Data Sets on a Basis of Information Granules
Adam Kiersztyn, Pawel Karczmarek, Krystyna Kiersztyn and Witold Pedrycz