

**IEEE FRANK ROSENBLATT AWARD**  
**RECIPIENTS**

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|--|---|
| 2022 – PAUL JOHN WERBOS<br>Program Director (Retired), National<br>Science Foundation, Arlington,<br>Virginia, USA                                 | “For development of backpropagation and<br>fundamental contributions to<br>reinforcement learning and time series<br>analysis.” |
| 2021 – JIM KELLER<br>Retired, Electrical Engineering and<br>Computer Science Department,<br>University of Missouri, Columbia,<br>Missouri, USA     | “For fundamental work on fuzzy pattern<br>recognition, fuzzy clustering, and fuzzy<br>technologies in computer vision.”         |
| 2020 - XIN YAO<br>Chair Professor of Computer<br>Science, Southern University of<br>Science and Technology, Shenzhen,<br>China                     | “For contributions to the advancement of<br>the theory and applications of<br>computational intelligence.”                      |
| 2019 - ERKKI OJA<br>Emeritus Professor (Retired), Aalto<br>University, Espoo, Finland  | “For contributions to neural networks and<br>unsupervised learning.”  |
| 2018 - ENRIQUE RUSPINI<br>Independent Consultant, Palo Alto,<br>California, USA  | “For fundamental contributions to the<br>understanding of fuzzy logic concepts and<br>their applications.”                      |
| 2017 - STEPHEN GROSSBERG<br>Wang Professor of Cognitive and<br>Neural Systems, Boston University,<br>Boston, Massachusetts, USA                    | “For contributions to understanding brain<br>cognition and behavior and their emulation<br>by technology.”                      |
| 2016 – RONALD R. YAGER<br>Professor, Machine Intelligence<br>Institute, Iona College, New York,<br>New York, USA                                   | “For contributions to the theory of fuzzy<br>sets and systems.”   |
| 2015 - MARCO DORIGO<br>Professor, IRIDIA, Université Libre<br>de Bruxelles, Brussels, Belgium  | “For contributions to the foundations of<br>swarm intelligence.”  |
| 2014 - GEOFFREY E. HINTON<br>University Professor, University of<br>Toronto, Department of Computer<br>Science, Toronto, ON, Canada                | “For contributions to neural networks and<br>deep learning.”  |
| 2013 - TERRENCE J. SEJNOWSKI<br>Professor, Francis Crick Chair,<br>The Salk Institute, Salk Institute for<br>Biological Studies, La Jolla, CA, USA | “For contributions to computational<br>neuroscience.”   |

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- 2012 - VLADIMIR VAPNIK  
Professor, Columbia University,  
New York, NY, USA  
"For development of support vector machines and statistical learning theory as a foundation of biologically inspired learning."
- 2011 - HANS-PAUL SCHWEFEL  
Professor Emeritus, Dr.-Ing, Chair of  
Algorithm Engineering, Faculty of  
Computer Science, Dortmund  
University of Technology,  
Dortmund, Germany  
"For pioneering contributions to evolutionary computation through the theory and application of evolution strategies."
- 2010 – MICHIO SUGENO  
Faculty of Culture and Information  
Science, Doshisha University  
Kyoto, Japan  
"For contributions to development and applications of the theory of fuzzy sets."
- 2009 – JOHN J. HOPFIELD  
Howard A. Prior Professor in the Life  
Sciences, Princeton University  
Princeton, NJ, USA  
"For seminal contributions to the understanding of information processing in biological systems."
- 2008 - TEUVO KOHONEN  
Academician of the Academy of  
Finland; Professor Emeritus of  
Helsinki University of Technology,  
Espoo, Finland  
"For outstanding contributions to the advancement of the theory and applications of neural networks, associative memories and the self-organizing map"
- 2007 – JAMES C. BEZDEK  
Computer Science Department  
Univ of West Florida  
Pensacola, FL, USA  
"For development of the theory and applications of the fuzzy c-means and related pattern recognition methods."
- 2006 - LAWRENCE J. FOGEL  
President, Natural Selection, Inc.,  
La Jolla, CA, USA  
"For extraordinary and pioneering achievements in computational intelligence and evolutionary computation."