



## **Professor Hojjat Adeli**

**Foreign Member of the Lithuanian Academy of Sciences since 2017**

Professor Hojjat Adeli was born June 3rd, 1950, in Iran. H. Adeli received his B.S. and M.S. in civil engineering from the University of Tehran (UT) in 1973. He earned his Ph.D. in civil engineering from Stanford in June 1976, at age 26. After Stanford, H. Adeli moved to Northwestern University as a junior faculty member. After one year at Northwestern, he decided to go back to his motherland. H. Adeli took a faculty position at UT in 1978. The chaos of the post revolution was the eruption of the Iran-Iraq war, during which the government closed the country's borders completely. In 1982, he was allowed to visit the United States to present a paper at a conference in Seattle, Washington. Around the same time, he was invited to present a research seminar at the University of Utah, where he received an offer to teach. Finally, fortunately and with some draw of luck, he managed to bring his family to America. In June 1983, H. Adeli joined Ohio State University (OSU) as an associate professor of engineering. Five years later, he became a full professor and chairman of OSU's structures faculty. In 2003 professor H. Adeli became the holder of a chaired professorship, the Abba G. Lichtenstein Professorship, a position he held until 2013.

### **Research interests:**

Computational neuroscience

Biological and brain signal processing

Computational modeling of brain and neurological disorders such as epilepsy, Alzheimer's disease, Parkinson's disease, autism spectrum disorder, stroke, ADHD

Memory and learning

Wavelets

### **Achievements**

**4/2018** – present Academy Professor, The Ohio State University (OSU)

**3/2015** – present Professor, Department of Neurology, OSU, Columbus, Ohio (by courtesy)

**9/2002** – present Professor, Department of Neuroscience, OSU (by courtesy)

**4/2002** – present Professor, Department of Biomedical Informatics, OSU (by courtesy)

### **Books and Publications:**

Adeli is the author of more than 570 research publications including 345 journal articles.

He is the author of 16 books.

#### Authored books:

1. Interactive Microcomputer-Aided Structural Steel Design
2. Expert Systems for Structural Design: A New Generation
3. Parallel Processing in Structural Engineering
4. Machine Learning: Neural Networks, Genetic Algorithms, and Fuzzy Systems
5. Neurocomputing for Design Automation
6. Distributed Computer-Aided Engineering for Analysis, Design, and Visualization
7. High-Performance Computing in Structural Engineering
8. Control, Optimization, and Smart Structures: High-Performance Bridges and Buildings of the Future
9. Construction Scheduling, Cost Optimization, and Management: A New Model Based on Neurocomputing and Object Technologies
10. Wavelets in Intelligent Transportation Systems
11. Cost Optimization of Structures: Fuzzy Logic, Genetic Algorithms, and Parallel Computing
12. Intelligent Infrastructure: Neural Networks, Wavelets, and Chaos Theory for Intelligent Transportation Systems and Smart Structures
13. Wavelet-Based Vibration Control of Smart Buildings and Bridges
14. Automated EEG-Based Diagnosis of Neurological Disorders - Inventing the Future of Neurology, CRC Press, Taylor & Francis, Boca Raton, Florida, 2010
15. Computational Intelligence - Synergies of Fuzzy Logic, Neural Networks and Evolutionary Computing
16. Nature Inspired computing – Physics- and Chemistry-based Algorithms

List of other publications: [https://www.ae-info.org/ae/Member/Adeli\\_Hojjat](https://www.ae-info.org/ae/Member/Adeli_Hojjat)

### **Honors and Awards**

**2018** Honorary Professor, Southeast University, Nanjing, China

**2017** Elected foreign member of Lithuanian Academy of Sciences

**2014, 2015, 2016, 2017** Thomson Reuters Highly Cited Researcher

**2016** Honorary Professor, University of Stirling, United Kingdom

**2015** Elected corresponding member of the Spanish Royal Academy of Engineering

**2015** Honorary Doctorate, Vilnius Gediminas Technical University, Lithuania.

**2015** Elected to the College of Fellows of the American Institute for Medical and Biological Engineering (AIMBE).

**2014** Fellow, American Neurological Association.

**2011** Award for Outstanding Contributions in Neural Systems established by World Scientific Co. with a cash prize of \$1000 “to honor his extraordinary leadership and impactful and inventive research contributions.”

**2010** Profiled as an Engineering Legend in the journal Leadership and Management in Engineering, American Society of Civil Engineers, April 2010.

**2010** Award for Innovation in Computing established by Wiley-Blackwell with a cash prize of \$1500 “To honor Professor Hojjat Adeli’s dedicated service and leadership as Editor-in-Chief of Computer-Aided Civil and Infrastructure Engineering for 25 years and extraordinary contributions as a distinguished researcher, prolific scholar, and illustrious contributor to a large number of journals

**2008** Fellow, the American Association for the Advancement of Science, “

**2005** Elected Distinguished Member, American Society

**2007** Peter L. and Clara M. Scott Award for Excellence in Engineering Education of Civil Engineers

The information is based on a personal file.

Photo: [www.ae.info.org/ae/Member/Adeli\\_Hojjat](http://www.ae.info.org/ae/Member/Adeli_Hojjat)

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