

Curriculum Vitae (brief)

Marios M. Polycarpou

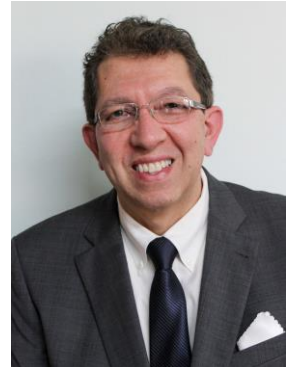
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Biographical Summary

Marios M. Polycarpou is a Professor of Electrical and Computer Engineering and the President of the Board of the KIOS Research and Innovation Center of Excellence at the University of Cyprus. He received the B.A. degree in Computer Science and the B.Sc. degree in Electrical Engineering, both from Rice University, Houston, TX, USA in 1987, and the M.S. and Ph.D. degrees in Electrical Engineering from the University of Southern California, Los Angeles, CA, USA in 1989 and 1992 respectively.

In 1992, he joined the University of Cincinnati, Ohio, USA, initially as an Assistant Professor, and eventually became full Professor of Electrical and Computer Engineering and Computer Science. In 2001, he relocated from USA to Europe to become the first faculty to join the newly established Electrical and Computer Engineering (ECE) Department at the University of Cyprus (the first ECE department in the country), where he served as founding Dept. Chair between July 2001 and February 2008. The ECE Dept currently has 21 faculty, more than 400 undergraduate students and more than 120 postgraduate students (five of the ECE faculty currently have active ERC Grants).

To create a critical mass of researchers necessary for multidisciplinary research, Prof. Polycarpou with other colleagues initiated in February 2008 the **KIOS Research Center for Intelligent Systems and Networks** (www.kios.ucy.ac.cy) at the University of Cyprus, and has served as the Director of the Center from its inception in 2008 until 2024. He is currently the President of the KIOS Advisory Board. In 2017, the Center was upgraded to a European Center of Excellence through a prestigious Widening-Teaming project funded by the European Commission, with complementary funding from the Government of Cyprus and the University of Cyprus (total funding of more than €40 million over a period of 15 years). In addition, Prof. Polycarpou is the recipient of the **ERC Advanced Grant** (2011), the recipient of the **ERC Synergy Grant** (2020), as well as three **ERC Proof-of-Concept Grants**.

Prof. Polycarpou's research interests span several areas, including intelligent monitoring and control, adaptive and learning systems, fault diagnosis, machine learning, critical infrastructure systems. He has worked and published in several application domains, including automation in

healthcare devices (6 patents), water distribution networks, electric power systems, smart buildings, autonomous vehicles, transportation, and computer networks. Together with his graduate students and other collaborators, he has published more than 500 articles in archival journals, edited books and refereed conference proceedings. He has also co-authored the book entitled *Adaptive Approximation Based Control*, published by Wiley in 2006, and 6 edited books.

In the last 30 years, Prof. Polycarpou has participated in more than 80 research projects/grants totalling more than €65 Million. His research has been funded by several agencies and industry in the USA and in Europe. His research has received more than 27,000 citations according to Google Scholar, with an h-index=75 (with 60 of his publications having received more than 100 citations). Prof. Polycarpou has been an invited Keynote Plenary Speaker at more than 70 international conferences. In January 2006 (at age 43), he was elected IEEE Fellow *for contributions to the theory and application of intelligent systems and control*. In 2016 he was elected IFAC Fellow. Between 2014-2017, he served as a member of the IEEE Fellow Evaluation Committee, and between 2021-2026 he is serving as a member of the IFAC Fellow Evaluation Committee. In 2015, 2017 and 2019, he served as the Panel Chair for the evaluation of proposals submitted to the ERC Advanced Grant in the area of electrical and computer engineering. In 2015, he received the Research Excellence Award from the University of Cyprus (the first recipient after the award was established).

Prof. Polycarpou is the recipient of the **2023 IEEE Frank Rosenblatt Technical Field Award** *for contributions to the theory and application of neural networks and learning systems in monitoring and control*. In addition, he was the recipient of the **2016 IEEE Neural Networks Pioneer Award**. In November 2015, he received the *Cyprus Distinguished Researcher Award* on behalf of the President of the Republic of Cyprus. In April 2019, Prof. Polycarpou was elected as a founding member of the **Cyprus Academy of Sciences, Letters, and Arts**. In 2022, he was elected Member of Academia Europaea (The Academy of Europe) in the Informatics section.

Prof. Polycarpou served as the President of the European Control Association (EUCA) from 2017-2019. Between January 2004 and December 2009, he served as the Editor-in-Chief of the *IEEE Transactions on Neural Networks and Learning Systems* (TNNLS), which is one of the premier journals in electrical and computer engineering. As TNNLS Editor-in-Chief, he had the privilege to have worked with more than 100 Associate Editors from 25 different countries. Between January 2012 and December 2013, Prof. Polycarpou served as the President of the IEEE Computational Intelligence Society (<http://cis.ieee.org>), which has more than 10,000 members worldwide.

Education:

1992	Ph.D.	Electrical Engineering	University of Southern California, USA
1989	M.S.	Electrical Engineering	University of Southern California, USA
1987	B.Sc. (Cum Laude)	Electrical Engineering	Rice University, USA
1987	B.A. (Cum Laude)	Computer Science	Rice University, USA

Employment:

2001-present	Professor	Dept. ECE, University of Cyprus
2024-present	President of the Board	KIOS Center of Excellence, University of Cyprus
2008-2024	Director	KIOS Center of Excellence, University of Cyprus
2001-2008	Founding Department Chair	Dept. ECE, University of Cyprus
2003-2005	Professor	Dept. ECE/CS, University of Cincinnati, USA
1998-2003	Associate Professor	Dept. ECE/CS, University of Cincinnati, USA
1992-1998	Assistant Professor	Dept. ECE/CS, University of Cincinnati, USA
1998-2000	Technical Consultant	SDL Inc., Cincinnati, OH, USA
2001-2003	Technical Consultant	Barron & Assoc. Inc., US Air Force Research Lab, US Office of Naval Research.

Teaching and Research Interests:

The focal areas of teaching and research are intelligent systems and control, neural networks and learning systems, fault diagnosis, computational intelligence and machine learning, cooperative control and distributed agents, cyber-physical security, critical infrastructure systems.

Highlights of International Academic and Professional Recognition

- Recipient of the 2023 IEEE Frank Rosenblatt Technical Field Award – *citation: for contributions to the theory and application of neural networks and learning systems in monitoring and control* (2023)
- Recipient of the IEEE Neural Networks Pioneer Award – *citation: for pioneering the use of neural networks and learning systems in monitoring and control* (2016)
- Elected Founding Member of the Cyprus Academy of Sciences, Letters, and Arts (2019-present)
- Elected Member of Academia Europaea (The Academy of Europe) (2022-present)
- Appointed Visiting Professor of Imperial College London (2019-present)
- Recipient of the *Cyprus Distinguished Researcher Award* (presented by the President of Cyprus in November 2015)
- Awarded the European Research Council (ERC) Synergy Grant (2021-2027)
- Awarded the European Research Council (ERC) Advanced Grant (2012-2018)
- IEEE Fellow -- *for contributions to the theory and application of intelligent systems and control*, (2006)

- IFAC Fellow - *for contributions to the theory and application of intelligent control and learning systems* (2016)
- Recipient of the *Research Excellence Award* from the University of Cyprus, [the first recipient of the award after it was established], (June 2015)
- Editor-in-Chief of the *IEEE Transactions on Neural Networks and Learning Systems* (TNNLS), 2004-2010, (current Impact Factor: 14.26)
- President of the IEEE Computational Intelligence Society (2012, 2013)
- President of the European Control Association (EUCA) (2018, 2019)
- Member of the IEEE Fellow Committee (2014, 2015, 2016, 2017)
- Panel Chair for the evaluation of proposals submitted to the ERC Advanced Grant in the area of electrical and computer engineering (PE7), 2015, 2017, and 2019.
- Invited Keynote Plenary Speaker at more than 70 international conferences.
- Received more than 27,160 citations according to Google Scholar with an h-index = 75.
- *IEEE Distinguished Lecturer* in the area of computational intelligence (01/2010 – 12/2012)
- Chair of the Awards Committee for the IEEE Computational Intelligence Society (2010, 2018).
- Participated in 85 research projects/grants totalling more than €65 Million. His research has been funded by several agencies and industry in the United States, by the European Commission and by the Research Promotion Foundation of Cyprus.
- Elected AdCom Member of the IEEE Computational Intelligence Society (01/2008–12/2010)
- Elected Member of the Board of Governors of the IEEE Control Systems Society (01/2008–12/2010, 01/2025-12/27)
- Published more than 500 articles in refereed journals, edited books and refereed conference proceedings, and co-authored the book *Adaptive Approximation Based Control*, published by Wiley in 2006. Also the holder of 6 patents.

Editorial Activities

- Editor-in-Chief of the *IEEE Transactions on Neural Networks and Learning Systems* (01/2004–12/2009).
- Associate Editor of the *Proceedings of the IEEE* (1/2021-present).
- Associate Editor of the *Annual Reviews in Control* (Elsevier) (1/2021-present).
- Associate Editor of the *IEEE Transactions on Neural Networks and Learning Systems* (1/98–12/03).
- Associate Editor of the *IEEE Transactions on Automatic Control* (1/99–1/02).

- Editor of the journal *Foundations and Trends in Systems and Control*, Now Publishers, (01/13-present)
- Associate Editor, IEEE/CAA Journal of Automatica Sinica (01/2016-present)
- Advisory Board member of the *SCIENCE CHINA Information Sciences*, Science China Press, (10/2012-12/2016)
- Advisory Board member of the *Cognitive Computation Journal*, Springer, (06/2010-present).
- Editorial Board member of the *International Journal of Applied Mathematics and Computer Science* (1/02-present).
- Advisory Board member of the *International Journal of BioSciences and Technology* (01/2008-present)
- Editorial Board member of the *International Journal of Intelligent Systems Technologies and Applications*, Inderscience Publishers, (6/05-12/14).
- Associate Editor for the Conference Editorial Board of the IEEE Control Systems Society (1995-1998).

Conference Organization Chair Activities

- General Co-Chair of the 2020 IEEE World Congress on Computational Intelligence (WCCI 2020), 19-24 July 2020, Glasgow, UK.
- General Chair of the 2018 European Control Conference (ECC 2018), June 2018, Limassol, Cyprus.
- General Chair of the 19th International Conference on Artificial Neural Networks (ICANN 2009), September 2009, Limassol, Cyprus.
- General Chair of the 9th International Conference on Critical Information Infrastructures Security (CRITIS 2014), October 2014, Limassol, Cyprus
- General Chair of the 2011 International Symposium on Neural Networks (ISNN 2011), May 2011, Guilin, China.
- General Chair of the 2011 IEEE Workshop on Environmental, Energy, and Structural Monitoring Systems (EESMS 2011), September 2011, Milan, Italy.
- General Chair of the 2012 IEEE Workshop on Environmental, Energy, and Structural Monitoring Systems (EESMS 2012), September 2012, Perugia, Italy.
- General Chair of the Joint 20th IEEE International Symposium on Intelligent Control and IEEE Mediterranean Conference on Control and Automation, Limassol, Cyprus, June 2005.
- General Co-Chair for the 2007 International Symposium on Neural Networks (ISNN 2007), 3-7 June 2007, Nanjing, China.