

## Prof. Dr. Antonio Liotta

Full Professor - Data Science and Computer Networks  
(scientific sector: ING-INF/05 section 09/H1)  
[Free University of Bozen-Bolzano](#), Italy  
[Faculty of Computer Science](#)

Editor-in Chief, [Springer IoT Series](#)  
Fellow, UK [Higher Education Academy](#)  
IEEE Senior Member

[LinkedIn](#) || [Twitter](#) || [Google Scholar](#)



**Antonio Liotta** has been Full Professor at the Faculty of Computer Science, Free University of Bozen-Bolzano since September 2020, where he teaches *Data Science* and *Computer Networks*. He has held full professorship positions since 2008 at: Eindhoven University of Technology, NL (Chair of communication network protocols); University of Derby, UK (Chair of Data Science and founding Director of Data Science Research Centre); and Edinburgh Napier University, UK (Chair of Data Science and Intelligent Systems). Previously, he has held academic positions in the UK, between February 2001 and October 2008, at University of Surrey and Essex University. He has also held visiting and distinguished professorships in the UK, Australia and China.

Since 1994 he has worked on a range of topical research issues in **intelligent systems**, including artificial vision, autonomous robots, and intelligent networks, with particular attention to data-intensive systems and artificial intelligence.

His team is at the forefront of research in **network** and **data science**, specifically in the context of **Smart Cities**, **Internet of Things**, and **smart sensing**. He studies the complexity of modern systems from the viewpoints of **complex networks**, **machine learning**, and **artificial intelligence**. His team has pioneered bio-inspired methods to tackle the digital data deluge in practical industrial settings. His work on smart sensors has been **featured in the media** after his team realized **miniaturized machine learning** for the Internet of Things. His work was in [De Volkskrant](#) (the most important Dutch daily; circulation 250K), in [IEEE Spectrum](#) (the IEEE flagship magazine; circulation 400K), and earned him the **2015 Eindhoven University valorization award**. His team has recently made headlines again in the area of **machine learning acceleration** - *Nature Communication* paper (IF 12.124).

Antonio played a prominent role in 15 large EU research projects and won 31 national grants (in UK, NL, China, and Australia). During the last decade alone, he has secured grants for over EUR 15m, 10% of which funded directly from industry.

Through a dense network of multi-disciplinary collaborations (**150+ co-authors from all continents**), he has made breakthroughs in **Internet of Things**, **Smart Cities**, **Smart Building**, **Smart Energy**, **Smart Sensing**, **Intelligent Lighting**, **Cyber-Physical Systems**, **ICT**, **multimedia networking**, and **human-computer interaction**. He has collaborated with computer scientists and engineers but also with psychologists, urbanists, mathematicians, industrial designers, physicians and civil servants. With his team, Antonio has published over 350 papers, attracting 12 best-paper awards and over 3,800 citations. Please find Antonio's publications and bibliometric data at <http://bit.ly/Liotta-papers>.

He is Editor-in-Chief of the Springer [Internet of Things](#) book series (>150k downloads); associate editor of the Journals [JNSM](#), [IJNM](#), [JMM](#), and [IE](#); and editorial board member of 6 more journals. He has 6 patents and is the author of the book [Networks for Pervasive Services: six ways to upgrade the Internet](#) (4k+ downloads). He has graduated over 30 research students, six of whom have already achieved prominent academic positions (1 vice-president, 1 college dean, 3 assistant professors, and 1 researcher).

## WORK EXPERIENCE

- Since Sept'20 *Full Professor* (tenure) - *Data Science and Computer Networks* (scientific sector: ING-INF/05 section 09/H1), [Faculty of Computer Science, Free University of Bozen-Bolzano](#), Italy.
- June'19 – Aug'20 *Full Professor* (tenure) - *Data Science and Intelligent Systems*, School of Computing, [Edinburgh Napier University](#), U.K.
- Dec'17 – June'19 *Full Professor of Data Science* (tenure) and *founding director* of the [Data Science Research Centre, University of Derby](#), UK.
- Nov'13 – Dec'17 *Full Professor* (tenure), [Communication Network Protocols, Department of Electrical Engineering, Eindhoven University of Technology](#), NL.
- Oct '08 – Oct '13 *Full Professor* (tenure), [Communication Network Protocols, Department of Mathematics and Computer Science](#) (20%) and [Department of Electrical Engineering](#) (80%), [Eindhoven University of Technology](#), NL.
- Oct '07 – Sept '08 *Reader* in pervasive systems, [School of Computer Science and Electronic Engineering, University of Essex](#), UK.
- Feb '05 – Sept '07 *Senior Lecturer* in pervasive systems, [School of Computer Science and Electronic Engineering, University of Essex](#), UK.
- Feb '01 – Jan '05 *Lecturer* in intelligent networks, [Institute for Communication Systems, University of Surrey](#), UK.
- Jan '00 – Jan. '01 *Research Fellow* in intelligent telecommunication systems, [Institute for Communication Systems, University of Surrey](#), UK.
- Oct '96 – Dec '00 *Researcher* and PhD candidate in intelligent networks, [Computer Science Dept, University College London](#), UK and [Hewlett-Packard Laboratories Bristol](#) (Telecom Group), UK.
- Feb '96 – Sept '96 *Researcher* in Network Management, [Hewlett-Packard Laboratories Bristol](#), UK.
- Dec '95 – Jan '96 *Guest Lecturer* in Computer Networks, Informatics Dept., [University of Pavia](#), Italy.
- Jan '95 – Nov '95 *Research Fellow* in Artificial Vision, Informatics Dept., [University of Pavia](#), Italy (Fellowship from [CNR](#) – the Italian National Research Council).

## EDUCATION

- 2003 *Fellow* of the UK [Higher Education Academy](#).
- 2001 *PhD in Computer Science*. [University College London](#), UK (4-year scholarship by Hewlett-Packard) (Thesis on mobile software agents).
- 1995 *Master in Information Technology*. [CEFRIEL, Politecnico di Milano](#), Italy. (Cum Laude, best-student award, 1-year scholarship by Olivetti) (Thesis on digital health).
- 1994 *Accredited Engineer*. Completed the accreditation programme of the [Italian Professional Register of Engineers](#) (Member ID: 2090).
- 1994 *5-year 'Laurea' Degree* in Computer & Electronic Engineering. [University of Pavia](#), Italy (First class) (Thesis on artificial vision).

## AWARDS

- 2019 Shanghai [Thousand Talents](#), awarded the title of “National Distinguished Expert”, CN¥ 2m grant, Shanghai Science and Technology Commission, China.  
Topic: *artificial intelligence*
- 2019 Visiting Research Fellowship (AU\$ 18k), [Griffith University](#), Australia  
Topic: *responsible AI, smart city and smart citizen well-being*
- 2016-2019 Visiting Professor (travel grant), [Shanghai Ocean University](#), China.  
Topic: *intelligent sensing*

2017-2019	Guest Professor, <a href="#">Eindhoven University of Technology</a> , NL Topic: <i>cognitive networks</i>
2017	Visiting Professor (grant), <a href="#">Cagliari University</a> , Italy. Topic: <i>cognitive Internet of Things</i>
2015	Guest Professor (grant), <a href="#">Queensland University of Technology</a> , Australia Topic: <i>cognitive Internet of Things</i>
2015	Valorisation Award (grant), <a href="#">Eindhoven University of Technology</a> , NL.
Since 2015	Senior Member, Institute of Electrical and Electronics Engineers ( <a href="#">IEEE</a> ).
2012-2015	Visiting Professor, <a href="#">University of Derby</a> , UK. Topic: <i>data science</i>
2014	Visiting Professor (grant), <a href="#">University of Calabria</a> , Italy. Topic: <i>cognitive Internet of Things</i>
Since 2010	Fellow, Int. Academy, Research and Industry Association ( <a href="#">IARIA</a> ).
Since 2008	Member, Royal Netherlands Society of Engineers ( <a href="#">KIVI</a> ).
Since 2007	5 patents granted and 1 filed.
Since 2005	10 best-paper awards; 1 best-paper nominee; 1 journal highly commended award; 1 best doctoral project award.
Since 2003	Fellow, UK Higher Education Academy ( <a href="#">HEA</a> )
2002	Best student feedback teaching award, <a href="#">University of Surrey</a> , UK
1994-2017	Member, Italian Professional Register of Engineers ( <a href="#">CNI</a> )

### **Advisory roles with Research Councils and International Academia**

2020	Finland Academy of Science, evaluation panel.
2020	Innovation Fund Denmark, evaluation panel.
2019	COMSAT, Pakistan, academic promotion committee.
2019	King Saud University, Saudi Arabia, professorial promotion committee.
2019	Innovation Fund Denmark, evaluation panel.
2019	EU Eurostars, evaluation panel.
2019	Cyprus Research Promotion Foundation, evaluation panel.
2018	University of Tabuk, professorial promotion committee.
2018	Trento Regional Research Council, evaluation panel.
2018	University of Jordan, professorial promotion committee.
2018	EU Eurostars, evaluation panel.
2018	Cyprus Research Promotion Foundation, evaluation panel.
2018	Italian Ministry of Education, evaluation panel, rapporteur.
2018	Finland Academy of Science, evaluation panel.
2017	Danish Council for Independent Research, evaluation panel.
2017	EU COST Action, evaluation panel.
2015	European Research Council, evaluation panel.
2014	Danish Council for Independent Research, evaluation panel.
2013	EU Fed4FIRE, evaluation panel.
2013	EU COST Action Trans Domain Proposals, evaluation panel.
2012-13	Dutch NWO, evaluation panel (exact sciences).
2012	EU EIT ICT, evaluation panel (energy)
2012	EU CHIST-ERA, Program Preparation Advisor (smart communication networks)
2011-12	EU-FP7 OFELIA, Evaluation Panel (OpenFlow in Europe: Linking Infrastructure and Applications)
2011-12	EU CHIST-ERA, Evaluation Panel (Beyond Autonomic Systems – the Challenge of Consciousness)

- 2010-12 Georgia National Science Foundation, Evaluation Panel.
- 2006-09 UK Engineering and Physical Sciences Research Council, Member of the Peer Review College.
- 2006-2008 EU-FP6, Evaluation Panel on “Mobile and Wireless Systems Beyond 3G”
- 2006 Belgian IWT Research Council, Scientific Advisory Panel.

### **Journals & Books Editorial Roles**

- Editor in chief, Book Series on [Internet of Things: Technology, Communications and Computing](#), Springer.
- Associate Editor (until 2019), [Information Fusion](#), Elsevier.
- Associate Editor, [Journal of Network and System Management](#), Springer.
- Associate Editor, [International Journal of Network Management](#), John Wiley & Sons.
- Associate Editor, [Journal of Mobile and Multimedia](#), River Publishers.
- Editorial Board (until 2019), [Journal of Network and Computer Applications](#), Elsevier.
- Editorial Board, [International Journal of Multimedia Computing and Systems](#), MSTI.
- Editorial Board, [International Journal of Digital Media Broadcasting](#), Hindawi.
- Editorial Board, [International Journal of Distributed Sensor Networks](#), SAGE (until 2017).
- Editorial Board, [Computer Science & Engineering International Journal](#), AIRCC.
- Formerly member of the Advisory Steering Committee of the [Media Laws magazine](#).
- Formerly Member of the Editorial Board of the International Journal of Information Science and Computer Applications.