

## Short Curriculum Vitae

**CARLO MENON**

*Sep 1, 2016*

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### ACADEMIC AND INDUSTRIAL APPOINTMENTS

- Since 2007*      **Professor, School of Engineering Science, Simon Fraser University, Canada**
- 2005-2007*      **Research Fellow, Advanced Concepts Team, European Space Agency (ESA), The Netherlands.**
- 2001-2004*      **Engineer, Aiem srl, Italy.**

### EDUCATION

- 2001-2005*      **Ph.D. at CISAS, University of Padua, Italy.**
- 2004*            **Visiting Scholar, Carnegie Mellon University, USA.**
- 1996-2001*      **Laurea degree, Mechanical Engineering, University of Padua, Italy.**

### RESEARCH INTERESTS

- Biomedical Technology
- Artificial Muscles and wearable sensors
- Robotics

### CAREER AWARDS

- *Career Investigator Award*, Michael Smith Foundation for Health Research, Canada, 2012.
- *New Investigator Award*, Canadian Institutes of Health Research, Canada, 2012.
- Biomimetics Award, BIONIS, Bath, UK, 2007.
- Luigi G. Napolitano Award, International Astronautical Federation, Spain, 2006.

### INVITED KEYNOTE SPEAKER

- Keynote speaker at the 5<sup>th</sup> International Conference on Bionic Engineering (ICBE), Ningbo, China, 2016.
- Keynote speaker at 13th International CAD Conference, Vancouver, Canada, 2016.
- Keynote speaker at the 3<sup>rd</sup> International Conference on Bionic Engineering (ICBE), Zhuhai, China, 2010.
- Keynote speaker at the 2<sup>rd</sup> International Conference on Bionic Engineering (ICBE), Changchun, China, 2010.

### OTHER RELEVANT INTERNATIONAL ACTIVITIES AND RECOGNITIONS

- Founding Member (No.FM 072) of the International Society of Bionic Engineering.
- *Deputy General Secretary* for the International Society of Bionic Engineering, Since 2010.
- Technical Advisory Committee member for the eCUBES sponsored by the European Research Council (*20M euro project*), including 22 Research Institutes and Companies; 2006-2010.

## **ASSOCIATE EDITOR OF JOURNALS**

- Bioengineering and Biotechnologies (specialty section: Bionics and Biomimetics), *Frontiers* publisher. Since 2013.
- Applied Bionics and Biomechanics, *Taylor & Francis*, then *IOS Press*, now *Hindawi* Publisher. Since 2011.

## **EDITOR SPECIAL ISSUES OF JOURNALS**

- Lead Editor, Special issue on “Wearable and Portable Robotics and Sensors: focus on neurological disorders”; Bioengineering and Biotechnologies (specialty section: Bionics and Biomimetics), *Frontiers* publisher.

## **EDITORIAL BOARD MEMBER OF JOURNALS**

- Scientific Reports - Nature, Nature Publisher. Since 2016.
- International Journal of Advanced Robotic Systems, InTech Publisher. Since 2013.
- Robotics, International Scholarly Research Network (ISRN) Publisher. From 2012 to 2013.
- Journal of Bionic Engineering, Elsevier Publisher. Since 2007.

## **REFEREE FOR JOURNALS**

1. Robotica; Cambridge University Press.
2. Transactions on Robotics; IEEE Publisher.
3. International Journal of Robotics Research; Sage Publisher.
4. Robotics and Autonomous Systems; Elsevier Publisher.
5. Robotics and Automation Magazine, IEEE Publisher.
6. Robotics and Computer Integrated Manufacturing, Elsevier Publisher.
7. Transactions on Mechatronics; IEEE/ASME Publisher.
8. Systems, Man and Cybernetics, IEEE Publisher.
9. Mechatronics; Elsevier.
10. Measurement Science and Technology; Institute of Physics (IOP) Publisher.
11. Journal of Vibration and Control, Sage Publisher.
12. Journal Advances in Engineering Software; Elsevier Publisher.
13. Intelligent Automation and Soft Computing; Technology Software & Information Enterprise (TSI) Press.
14. Acta Astronautica; Elsevier Publisher.
15. Bioinspiration & Biomimetics; Institute of Physics (IOP) Publisher.
16. International Journal of Biomechanics and Biomedical Robotics; Inderscience Publisher.
17. Applied Bionics and Biomechanics; Taylor & Francis Publisher.
18. Macromolecular Reaction Engineering, Wiley Publisher.
19. Journal of Bionic Engineering; Elsevier.
20. Journal of NeuroEngineering and Rehabilitation, BioMed Central.

21. European Journal of Physical and Rehabilitation Medicine
22. Biomedical Engineering-Applications, Basis and Communications, World Scientific Publishing.
23. Biomedical Engineering Online, BioMed Central
24. Medical & Biological Engineering & Computing, Springer
25. ETRI Journal; ETRI.
26. Transactions on Neural Systems & Rehabilitation Engineering, IEEE Publisher.
27. Biomedical Engineering-Applications, Basis and Communications; World Scientific.
28. Journal of the Royal Society Interface; Royal Society Publishing.
29. Smart Materials and Structures; Institute of Physics (IOP) Publisher.
30. Langmuir; ACS Publications.
31. Applied Materials & Interfaces; ACS Publications.
32. Journal of Intelligent Material Systems and Structures; SAGE Publications.
33. Nanotechnology; Institute of Physics (IOP) Publisher.
34. Beilstein Journal of Nanotechnology, Beilstein Publisher
35. Journal of Micro and Nano-Manufacturing; ASME Publisher.
36. Journal of Micro-Bio Robotics, Springer.
37. Journal of Biomedical Microdevices; Springer Publisher.
38. Journal of Micromechanics and Microengineering; Institute of Physics (IOP) Publisher.
39. Sensors, Molecular Diversity Preservation International (MDPI); Open Access Publishing.
40. Journal of Electrostatics, Elsevier
41. International Journal for Applied Electromagnetics and Mechanics; IOS Press.
42. Marine Technology Society Journal; Marine Technology Society Publisher.

#### **GENERAL CHAIR OF SYMPOSIA**

- General chair of the “Symposium on Biorobotics and Biomechanics”, International Conference on Control Dynamic Systems, and Robotics, Ottawa, Canada, 2016.

#### **CONFERENCE ORGANIZATION COMMITTEE MEMBER**

1. Second Ballistocardiography and Seismocardiography Workshop, Vancouver, 2016
2. IEEE International Conference on Information and Automation, The Old Town of Lijiang, China, 2015.
3. IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechanics, Sao Paulo, Brazil, 2014.
4. International Conference on Image Analysis and Recognition (ICIAR), Burnaby, Canada, 2011.
5. International Conference on Autonomous and Intelligent Systems (AIS), Burnaby, Canada, 2011.

#### **INTERNATIONAL AWARD COMMITTEE MEMBER**

- IEEE/RAS/EMBS International Conference on Biomedical Robotics and Biomechanics (BIOROB), 2016.

- IEEE/RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BIOROB), 2014.
- International Bionic Engineering Award Committee, 2013. Value awards: \$16,000.
- IEEE/RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BIOROB), Scottsdale, USA, 2008.

### **SESSION CHAIRMAN AT INTERNATIONAL CONFERENCES**

1. Chair of two sessions at the IEEE/RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BIOROB), Singapore, 2016.
2. Chair of one session at the 5th International Conference of Bionic Engineering, Ningbo, China, 2016.
3. Chair of two sessions at the IEEE/RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BIOROB), Sao Paulo, Brasil, 2014.
4. Chair of one session at the International Conference on Mechanical Engineering and Mechatronics, Toronto, Canada, August 8-9, 2013.
5. Chair of 15 sessions at the IEEE/RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BIOROB), Rome, Italy, June 24-28, 2012.
6. Interactive & Poster Sessions Co-Chair for the IEEE RAS\EMBS BIOROB 2012 Conference to be held in Rome (Italy) next June 24-28.
7. Chairman at one session at the International Joint Conference on Biomedical Engineering Systems and Technologies (BIOSTEC), Rome, Italy, January 26-29, 2011.
8. Chairman at one session at the International Conference on Applied Bionics and Biomechanics, ICABB-2010, Venice, Italy, October 14-16, 2010.
9. Chairman at one session of the International Conference on Bionic Engineering (ICBE), Zuihai, China, 2010.
10. Chairman for two sessions at IEEE/RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BIOROB), Scottsdale, USA, 2008.
11. Chairman at one session of the International Conference on Bionic Engineering (ICBE), Changchun, China, 2008.

### **BOTH CONFERENCE PROGRAM COMMITTEE MEMBER AND REFEREE**

List of International Conferences where Menon served both as Conference Program Committee Member (or International Advisory Board Member) and Referee:

1. IEEE/RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BIOROB), Singapore, 2016.
2. 5th International Conference of Bionic Engineering, Ningbo, China, 2016.
3. IEEE Conference on Robotics and Biomimetics, Qingdao, China, 2016.
4. IEEE International Conference on Information and Automation, Ningbo, China, 2016.
5. IEEE International Conference on Systems, Man, and Cybernetics, Budapest, Hungary, 2016.
6. International Conference of Control, Dynamic Systems, and Robotics, Ottawa, Canada, 2016.
7. IEEE, International Conference on Rehabilitation Robotics, Singapore, 2015

8. IEEE Canadian Conference on Electrical and Computer Engineering, Halifax, Canada, 2015.
9. International Conference of Control, Dynamic Systems, and Robotics, Ottawa, Canada, 2015.
10. IEEE International Conference on Robotics and Biomimetics (ROBIO), Hanoi, Vietnam, 2014.
11. Canadian Conference on Dynamic Systems and Control, Ottawa, Canada, 2014.
12. IEEE International Conference on Information and Automation, Hailar, China, 2014
13. IEEE/RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BIOROB), Sao Paulo, Brasil, 2014.
14. International Conference on Robotics and Applications (RA 2014) The International Association of Science and Technology for Development (IASTED), Zurich, Switzerland, 2014
15. IEEE International Conference on Robotics and Biomimetics, Shenzhen, China, 2013.
16. International Conference on Rehabilitation Robotics, Seattle, USA, 2013
17. IEEE International Conference on Robotics and Biomimetics, Guangzhou, China, 2012.
18. International Conference on Autonomous and Intelligent Systems (AIS), Aveiro, Portugal, 2012.
19. International Conference on Informatics in Control (ICINCO), Automation and Robotics, Rome, Italy, 2012
20. Smart Materials, Structures and Systems (CIMTEC), Montecatini Terme, Italy, 2012.
21. ASME/IFTOMM International Conference on Reconfigurable Mechanisms and Robots (ReMAR 2012) Tianjin University, China, 2012.
22. IEEE International Conference on Robotics and Biomimetics, Phuket Island, Thailand, 2011.
23. International Bionic Engineering Conference, Elsevier, Boston USA, 2011.
24. ASME International Design Engineering Technical Conference & Computers and Information in Engineering Conference, Washington, DC, USA, 2011.
25. International Conference on Informatics in Control, Automation and Robotics (ICINCO), Noordwijkerhout, The Netherlands, 2011.
26. International Conference on Robotics and Applications (RA 2011), The International Association of Science and Technology for Development (IASTED), Vancouver, BC, Canada, 2011.
27. International Conference on Autonomous and Intelligent Systems (AIS), Burnaby, Canada, 2011.
28. International Conference on Mechanical Engineering and Information Technology (MEIT 2011), Taiyuan, Shanxi, China, 2011.
29. International Conference on Computational Bioscience, The International Association of Science and Technology for Development (IASTED), Cambridge, United Kingdom, 2011.
30. IEEE/FTRA International Conference on Intelligent Robotics, Automations and Applications (IRoA-11), Gwangju, Korea, 2011.
31. International Conference on Biotechnology (BioTech 2010), The International Association of Science and Technology for Development (IASTED), Cambridge, Massachusetts, USA, 2010.

32. IEEE/RAS/RSJ International Conference on Robotics and Biomimetics (ROBIO), Tianjin, China, 2010.
33. International Conference on Nanotechnology and Applications (NANA), International Association of Science and Technology for Development (IASTED), Cambridge, Massachusetts, USA, 2010.
34. International Conference on Informatics in Control, Automation and Robotics (ICINCO), Funchal, Madeira, Portugal, 2010.
35. International Conference on Applied Bionics and Biomechanics, ICABB-2010, Venice, Italy, 2010.
36. International Conference of Bionic Engineering, ICBE'10, Zhuhai, China, 2010.
37. IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, Qingdao, ShanDong, China, 2010.
38. International Symposium on Biomimetic functional surfaces with fluids interactions (Biomimetic FSFI'09), Nottingham, UK, 2009.
39. International Conference on Informatics in Control, Automation and Robotics (ICINCO), Milan, Italy, 2009.
40. ASME/IFTOMM International Conference on Reconfigurable Mechanisms and Robots (ReMAR), London, UK, 2009.
41. IEEE/RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BIOROB), Scottsdale, USA, 2008.
42. International Conference on Nanotechnology and Applications (NANA), The International Association of Science and Technology for Development (IASTED), Crete, Greece, 2008.
43. Panelist at CANEUS International Conference, Toulouse, 2006.

#### **ADDITIONAL INTERNATIONAL CONFERENCES WHERE MENON SERVED AS REFEREE**

44. IEEE/RSJ International Conference on Intelligent Robots and Systems, Daejeon, Korea, 2016
45. IEEE International Conference on Robotics and Automation, Stockholm, Sweden, 2016.
46. IEEE-RAS International Conference on Humanoid Robots, Seoul, Korea, 2015
47. ASME International design engineering technical conferences and computer and information in engineering conference, Boston, USA, 2015
48. IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications (MESA), Italy.
49. IEEE International Conference on Biomedical Robotics and Biomechatronics, 2014.
50. IEEE International Conference on Robotics and Automation (ICRA), 2014
51. IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM), 2014.
52. International Conference on Rehabilitation Robotics (ICORR), 2013.
53. IEEE/RAS International Conference on Intelligent Robots and Systems (IROS), 2013.
54. IEEE International Conference on Robotics and Automation (ICRA), 2013.
55. IEEE International Conference on Automation Science and Engineering (CASE), Seoul, Korea, 2012.

56. IEEE/RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BIOROB), Rome, Italy, June 24-28, 2012.
57. ASME/IEEE International Conference on Mechatronic and Embedded Systems and Applications (MESA), Washington, DC, USA, 2011.
58. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2010.
59. IEEE International Conference on Robotics and Automation (ICRA), 2010.
60. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2009.
61. IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM), 2009.
62. IEEE International Conference on Robotics and Automation (ICRA), 2009.
63. Canadian Conference on Electrical and Computer Engineering 2008.
64. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2008.
65. IEEE International Conference on Robotics and Biomimetics (ROBIO), 2008.
66. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2007.

### **TEACHING**

- Feedback Control Systems.
- Signals.
- Linear Systems Theory.
- Computer Aided Design and Manufacturing.
- Biorobotics.
- Materials and Mechanical Design (TBD).

### **PATENTS**

- >10 patents

### **PUBLICATIONS**

See: <http://menrva.ensc.sfu.ca/node/36>