

#### **Curriculum Vitae**



# Associate Professor Ooi Chui Ping Head, Biomedical Engineering Programme School of Science & Technology

Tel: +65 6248 5986

## **Education Qualifications**

2000 Ph.D, University of Cambridge, UK

1997 M.Sc. and B.Sc (Hons), University of Malaya

## **Academic and Professional Experience**

2015 – Present	Associate Professor and Head of Programme, Paramedicine and Emergency Response
	Minor
2009 - Present	Associate Professor and Head of Programme, Biomedical Engineering
2018 – 2019	External examiner for Diploma in Biomedical Engineering, Temasek Polytechnic
2005 – 2008	Assistant Professor, School of Chemical & Biomedical Engineering, Nanyang
	Technological University
2000 – 2004	Assistant Professor, School of Materials Engineering, Nanyang Technological University
1997 - 1999	Graduate Tutor, University of Cambridge, UK

## **Memberships and Professional Activities**

- President, Institute of Materials (East Asia), Singapore
- Student Advisory Board, Biomedical Engineering Society, Singapore
- Chartered Engineer, UK
- Member of Institute of Materials, Minerals and Mining, East Asia & UK

# **Research Interests**

- Application of artificial intelligence in medicine / healthcare
- Biomaterials development and characterization



#### **Selected Publications**

#### **Book Chapters:**

- H. H. Lau, C. P. Ooi, M. V. Kiryukhin. Biodegradable Protein-Tannic Acid Multilayers. 2018. Chapter 5, PP
   141 167. In: M. C. Wythers (ed) Advances in Materials Science Research Vol. 33. Nova Science
   Publishers. ISBN: 978-1-53614-314-0 (eBook) ISBN: 978-1-53614-313-3 (Hardcover)
- Gan Seng Neon, Aishah Mohd Jelan, Ooi Chui Ping, Trinuclear oxo-centered chromium (III) carboxylate complexes as Ziegler-Natta catalysts for ethylene polymerization, Progress and Development of Catalytic Olefin Polymerisation, Technology and Education Publishers, 2000; 25 32. ISBN: 978-4-90783-701-3

#### **Selected international Refereed Journal Papers:**

- Hui Wen Loh, Chui Ping Ooi, Shu Lih Oh, Prabal Datta Barua, Yi Ren Tan, Filippo Molinari, Sonja March, U Rajendra Acharya, Daniel Shuen Sheng Fung, Deep neural network technique for automated detection of ADHD and CD using ECG signal, Computer Methods and Programs in Biomedicine, Vol 241, Nov 2023, 107775. doi: 10.1016/j.cmpb.2023.107775.
- Hui Wen Loh, Chui Ping Ooi, Silvia Seoni, Prabal Datta Barua, Filippo Molinari, U Rajendra Acharya, Application of explainable artificial intelligence for healthcare: A systematic review of the last decade (2011 2021), Computer Methods and Programs in Biomedicine, Vol 226, 107161, November 2022, https://doi.org/10.1016/j.cmpb.2022.107161
- H.W. Loh, C.P. Ooi, P.D. Barua, E.E. Palmer, F. Molinari and U.R. Acharya, "Automated detection of ADHD: Current trends and future perspective", Computers in Biology and Medicine", Vol.1465, July 2022, 105525. https://doi.org/10.1016/j.compbiomed.2022.105525
- H. T. Tor, C. P. Ooi, N. S. J. Lim-Ashworth, J. E. W. Koh, V. Jahmunah, S. L. Oh, U. R. Acharya, D. S. S. Fung, Automated detection of conduct disorder and attention deficit hyperactivity disorder using decomposition and nonlinear techniques with EEG signals, Computer Methods and Programs in Biomedicine, 200 (March 2021), 105941. https://doi.org/10.1016/j.cmpb.2021.105941
- Huiwen Loh, Chui Ping Ooi, Emirah Aydemir, Turker Tuncer, Sengul Dogan, U Rajendra Acharya, Decision support system for major depression detection using spectrogram and convolution neural network with EEG signals, Expert Systems, 13 July 2021, 39(2):e12773, https://doi.org/10.1111/exsy.12773
- H. W. Loh, C. P. Ooi, V. Jamunah, S. L. Oh, O. Faust, A. Gertych, U. R. Acharya, Automated detection of sleep stages using deep learning techniques: A systematic review of the last decade (2010-2020), Applied Sciences, 2020, 10(24), 8963. DOI: 10.3390/app10248963
- S. L. Oh, V. Jahmunah, C. P. Ooi, R.S. Tan, E. J Ciaccio, T. Yamakawa, M. Tanabe, M. Kobayashi, U. R. Acharya, Classification of heart sound signals using a novel deep WaveNet model, Computer Methods and Programs in Biomedicine, 2020, 196, 105604. DOI: 10.1016/j.cmpb.2020.105604



- H. H. Lau, N. L. Yakovlev, C. P. Ooi, M. V. Kiryukhin, Adsorption kinetics of tannic acid onto albuminterminated multilayer thin films, Colloid and Polymer Science, 2019, Vol. 297, Issue 3, pp 417-422. DOI: 10.1007/s00396-018-4426-4
- Y. Li, J. Ho, C. P. Ooi, Antibacterial Efficacy and Cytotoxicity Studies of Copper(II) and Titanium(IV) Substituted Hydroxyapatite, Material Science and Engineering C, 2010, Vol. 30, pp.1137- 1144
- S. C. J. Loo, C. P. Ooi, FYC Boey, Degradation of poly(lactide-co-glycolide) (PLGA) and poly(L-lactide) (PLLA) by electron beam irradiation, Biomaterials; 2005; 26, 12, 1359-1367.

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