



Alien Intelligence: An Introduction to AI for Architects

HUB UTCN, str. George Barițiu nr. 4
miercuri 20 mai, ora 13.00

Everyone is talking about AI these days. But what exactly is AI? How did it evolve? And what potential does it have to influence the future? This lecture takes you on a roller coaster ride looking at the extraordinary – but often somewhat terrifying – potential of what is arguably the most significant invention of humankind. The lecture concludes that we are about to face a radically different form of intelligence – an ‘alien intelligence’ – that will far exceed human intelligence, and completely transform the discipline of architecture.

Neil Leach

CURRICULUM VITAE

Name Neil Leach, M.A., Dip. Arch. (Cambridge), Ph.D. (Nottingham)
Nationality United Kingdom (Green Card holder)

Appointments

2022 - Professor, FIU, USA
2021 - Director, Doctor of Design Program, FIU, USA
2019 - 2022 Associate Professor, FIU, USA
2016 - 2019 Assistant Professor, FIU, USA
2015 - Academician, Academy of Europe
2015 - 2019 Professor, Tongji University, Shanghai, China
2013 - Professor, European Graduate School, Switzerland
2011 Co-founder, DigitalFUTURES
2009 - 2014 Visiting/Adjunct Professor, University of Southern California, USA
2007 - 2009 Professor of Architectural Theory, University of Brighton, UK
2000 - 2003 Course Master, Architectural Association, UK
2000 - 2003 Professor of Architectural Theory, University of Bath, UK
1998 - 2000 Reader (Associate Professor), University of Nottingham, UK
1991 - 1998 Lecturer (Assistant Professor), University of Nottingham, UK
1987 - 1991 Architect, Furness Associates; Cambridge Design, UK
1984 - 1987 Research Fellow, University of Cambridge, UK

Visiting/Temporary Appointments

2015 - 2016 Visiting Professor, FIU, USA
2013 - 2015 Visiting Professor, Harvard GSD, USA
2012 - 2013 NASA Innovative Advanced Concepts Fellow, Phase 2
2011 - 2012 NASA Innovative Advanced Concepts Fellow, Phase 1
2006 - 2012 MPhil/PhD Supervisor, London Consortium, UK
2007 - Visiting Professor, IaaC, Barcelona, Spain; ESARQ, Barcelona, Spain
2006 - 2007 Visiting Professor, SCI-Arc, USA
2005 Visiting Professor, Cornell University, USA
2005 Visiting Professor, Royal Danish School of Fine Arts, School of Architecture, Copenhagen, Denmark
2003 - 2007 DAAD Professor, Dessau Institute of Architecture, Germany
2000 Research Fellow, Curtin University of Technology, Australia
1999 Visiting Professor, Columbia GSAPP, New York, USA

Major Publications

- Neil Leach, *Architecture in the Age of Artificial Intelligence: An Introduction to AI for Architects*, Second Edition, London: Bloomsbury, 2025
(a) Chinese translation, Beijing: CABP (forthcoming), (b) Italian translation, Roma (forthcoming), (c) Arabic translation, 2025
(d) Thai translation, Bangkok (forthcoming), (e) Farsi translation, University of Tehran Press (forthcoming), (f) Turkish translation (forthcoming)
(g) Portuguese translation, Lisbon (forthcoming) (h) Spanish translation (forthcoming) (i) Korean translation, Seoul, Spacetime (forthcoming)
- Behnaz Farahi, Neil Leach (eds.), *Interactive Design: Towards a Responsive Environment*, Basel: Birkhauser, 2023
(a) Farsi translation (forthcoming)
- Neil Leach, Matias del Campo (eds.), 'Machine Hallucinations: Architecture and AI', *AD*, London: Wiley, 2022
- Neil Leach, *Architecture in the Age of Artificial Intelligence: An Introduction to AI for Architects*, London: Bloomsbury, 2022

- (a) Korean translation, Seoul: Spacetime, 2023) (b) Ukrainian translation, Kiev, 2024 (c) Farsi translation, University of Tehran Press, 2024
5. Philip Yuan, Hua Chai, Chao Yan, Neil Leach (eds.), *Proceedings of the 2021 DigitalFUTURES*, Singapore: Springer, 2021
 6. Philip Yuan, Jiawei Yao, Chao Yan, Xiang Wang, Neil Leach (eds.), *Proceedings of the 2020 DigitalFUTURES*, Singapore: Springer, 2021
 7. Philip Yuan, Neil Leach, Mike Xie, Jiawei Yao (eds.), *Architectural Intelligence*, Singapore: Springer 2020
 8. Philip Yuan, Achim Menges, Neil Leach (eds.), *Digital Fabrication*, Shanghai: Tongji UP, 2017
 9. Neil Leach, Philip Yuan (eds.), *Computational Design*, Shanghai: Tongji UP, 2017
 10. Neil Leach, Behnaz Farahi (eds.), *3D Printed Body Architecture*, London: Wiley, 2017
 11. Neil Leach, Roland Snooks (eds.), *Swarm Intelligence: Architectures of Multi-Agent Systems*, Shanghai: Tongji UP, 2017
 12. Neil Leach, Xu Wei-Guo (eds.), *Digital Factory: Advanced Computational Research*, Beijing, CABP, 2016
 13. Neil Leach, Philip Yuan, Achim Menges (eds.), *Robotic Futures*, Shanghai: Tongji University Press, 2015
 14. Neil Leach (ed.), *Space Architecture: The New Frontier for Design Research, AD*, London: Wiley, 2014
 15. Neil Leach, Xu Weiguo (eds.), *Design Intelligence: Advanced Computational Research*, Beijing, CABP, 2013
 16. Neil Leach, Philip Yuan (eds.), *Digital Workshop in China*, Shanghai: Tongji UP, 2013
 17. Neil Leach, Philip Yuan (eds.), *Scripting the Future*, Shanghai: Tongji University Press, 2012
 18. Neil Leach, Philip Yuan (eds.), *Fabricating the Future*, Shanghai: Tongji University Press, 2012
 19. Neil Leach, Xu Wei-Guo (eds.), *Machinic Processes*, Vol. 1: Architects, Beijing: CABP, 2010
 20. Neil Leach, Xu Wei-Guo (eds.), *Machinic Processes*, Vol 2: Students, Beijing: CABP, 2010
 21. Neil Leach (ed.), *Digital Cities*, London: Wiley, 2009
 22. Neil Leach, Xu Wei-Guo (eds.), *(Im)material Processes: New Digital Techniques for Architecture*, Students, Beijing: CABP, 2008
 23. Neil Leach, Xu Wei-Guo (eds.), *(Im)material Processes: New Digital Techniques for Architecture*, Architects, Beijing: CABP, 2008
 24. Neil Leach, Xu Wei-Guo (eds.), *Emerging Talents, Emerging Technologies: Students*, Beijing: CABP, 2006
 - (a) Korean translation: *Et Et*, Seoul: Archiworld, 2007
 25. Neil Leach, Xu Wei-Guo (eds.), *Emerging Talents, Emerging Technologies: Architects*, Beijing: CABP, 2006
 26. Neil Leach, *Camouflage*, Camb., MA: MIT Press, 2006
 - (a) Romanian translation, *Camuflag*, Bucharest: Paideia, 2009
 27. Neil Leach, *Forget Heidegger*, Bucharest: Paideia, 2006
 28. Neil Leach, Xu Wei-Guo (eds.), *Fast Forward>>, Hot Spots, Brain Cells*, Hong Kong: Map Office, 2004
 29. Neil Leach, *China*, Hong Kong: Map Office, 2004
 30. Neil Leach, David Turnbull and Chris Williams (eds.), *Digital Tectonics*, London: Wiley, 2004
 31. Neil Leach (ed.), *Designing for a Digital World*, London: Wiley, 2002
 32. Neil Leach (ed.), *The Hieroglyphics of Space: Reading and Experiencing the Modern Metropolis*, London: Routledge, 2002
 33. Neil Leach, O F-Lewis, K Hock, N Worton, *Mars Pants: Covert Histories, Temporal Distortions, Animated Lives*, London: AF, 2000
 34. Neil Leach, *Millennium Culture*, London: Ellipsis, 1999
 35. Neil Leach (ed.), *Architecture and Revolution: Contemporary Perspectives on Central and Eastern Europe*, London: Routledge, 1999
 36. Neil Leach, *The Anaesthetics of Architecture*, Cambridge, Ma.: MIT Press, 1999
 - (a) Romanian translation: *Anestetica*, Bucharest: Paideia, 1999 (b) Spanish translation: *La An-estética de la Arquitectura*, Barcelona: G Gili, 2001
 - (c) Portuguese translation: *A Anestética da Arquitectura*, Lisbon: Antígona, 2005 (d) Chinese translation, Taipei: Garden City, 2005
 - (e) Korean translation, Seoul: SpaceTime, 2020
 37. Neil Leach (ed.), *Rethinking Architecture: A Reader in Cultural Theory*, London: Routledge, 1997
 - (a) Macedonian translation, Skopje, 2012 (b) Farsi translation, Tehran, 2009
 38. L B Alberti, *On the Art of Building in Ten Books*, Joseph Rykwert, Neil Leach and Robert Tavernor (trans.), MIT Press, 1988
 - (a) Chinese translation, Beijing: CABP, 2016