

3 JUNE 2026



University of
East London

ICASA 2026

TRACK 6

University Of East London (UEL) | School Of Architecture, Computing And Engineering

FROM RULES TO EMERGENCE: SHAPE GRAMMARS IN THE AGE OF AI WORKSHOP*

> Workshop Overview

This workshop explores generative systems and shape grammars as sustainable, AI-enhanced design methods for producing efficient and context-responsive architectural iterations. By combining foundational computational design theory with emerging AI workflows, participants learn how rule-based and visual AI tools can support creative, environmentally informed design without excessive computational cost.

Workshop Schedule

Full-day workshop (6–7 hours):

- 10.00 - 11.00: Opening session and presentation
- 11.00 - 13.00: Module 1: Sequences
- 13.00 - 14.00 : Lunch break
- 14.00 - 15.00: Module 2: Conditional
- 15.00 - 16.00: Module 3: Extensions
- 16.00 - 17.00: Closing session and discussion of final results discussion of results with guest faculty

> Tutors Visiting Critics & Experts

- Athanasios Economou (Professor, Georgia Tech – Shape Machine Lab)
 - Deborah Benros (UEL – Cluster Leader of Architecture and Physical Design)
 - UEL PhD Student (UEL tbc)
- Guest Critics (to be confirmed):
- Chris Earl (Emeritus Professor - Open University)
 - Iestyn Jowers (Senior Lecturer - Open University)

> Target Audience

- ICASA 2026 delegates interested in AI and design computation.
 - Advanced architecture and design students.
 - Design-aware practitioners exploring formal generative systems.
 - Educators curious about visual programming and alternative CAD paradigms.
- Architecture and design students
- Computer scientists & computational designers interested in generative systems
 - Requirements: prior knowledge of CAD software 2D

*The workshop will run subject to sufficient registrations