

## Lect. Cemal Koray Bingöl

### Personal Information

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### Biography

**Cemal Koray Bingöl** is an architect and the coordinator of the Digital Fabrication Lab at Istanbul Technical University's Faculty of Architecture. His research focuses on computational design technologies through data-driven urbanism, interactive design and robotic fabrication. He finished his study at Computer-Aided Architectural Design Master's Programme at Yildiz Technical University, with an exchange program to TU Eindhoven, after he received his Bachelor of Architecture from Istanbul Technical University. In his master's thesis, he researched simulating urban sprawl through computational models. He taught computational design and basic design courses at Istanbul Bilgi University between 2013 and 2019 and has been giving lectures in various universities on computational and interactive design. Meanwhile, he co-founded the computational design collaboration Epitome {co net}, and data-driven design consultancy Bits 'n Bricks. Currently, he is working on his PhD in Architectural Design Computing at ITU.

### Certificates, Courses and Trainings

IT, Kuka Robot Programlama I, KUKA CEE GMBH MERKEZİ AVUSTURYA İSTANBUL MERKEZ ŞUBESİ, 2017

### Dissertations

Postgraduate, Urban growth simulations with agent-based modeling and cellular automata, Yildiz Technical University, Faculty Of Architecture, Department Of Architecture, 2016

### Research Areas

Architectural Design

### Academic Titles / Tasks

Lecturer, Istanbul Technical University, Mimarlık, Mimarlık, 2019 - Continues

### Articles Published in Other Journals

**I. Streets of Izmir through Machine Eye**

Halıcı S. M., Bingöl C. K.

(IEU+KREA) İzmir Ekonomi Üniversitesi Yaratıcı Ekonomi Araştırma ve Uygulamaları Dergisi, vol.4, no.3, pp.8-12, 2021 (Non Peer-Reviewed Journal)

**Refereed Congress / Symposium Publications in Proceedings**

**I. Robot-Aided Fabrication of Materially Efficient Complex Concrete Assemblies**

ERDİNE E., AYDIN A., BİNGÖL C. K., GÜNDÜZ G., Rodriguez A. L., Showkatbakhsh M.

18th International Conference, CAAD Futures 2019, Daejeon, South Korea, 26 - 28 June 2019, pp.454-472

**II. A Sensory and Bodily Approach to Curriculum Construction for Design Education**

Kay İ., AKGÜN B., TÜMERDEM D., BİNGÖL C. K.

eCAADe 2018 36th Annual Conference, Lodz, Poland, 19 - 21 September 2018, vol.1, pp.333-340

**III. Computing Stitches and Crocheting Geometry**

Çapınaman Ö. B., Bingöl C. K., Gürsoy Toykoç B.

17th International Conference, CAAD Futures 2017, İstanbul, Turkey, 12 - 14 July 2017, pp.289-305

**IV. Agent-Based Urban Growth Simulation A Case Study on Istanbul**

Bingöl C. K., Colakoglu B.

34th eCAADe Conference (eCAADe), Oulu, Finland, 24 - 26 August 2016, pp.41-48

**Metrics**

Publication: 6