Asst. Prof. Şehnaz CENANİ DURMAZOĞLU

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Education Information

Doctorate, Technische Universiteit Eindhoven, Netherlands 2009 - 2013
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mimari Tasarımda Bilişim (Yl) (Tezli), Turkey 2004 - 2007
Undergraduate, Istanbul Technical University, Mimarlık Fakültesi, Mimarlık Bölümü, Turkey 2000 - 2004

Dissertations

Doctorate, Modeling cognitive learning of urban networks in daily activity-travel behavior, Technische Universiteit Eindhoven, 2013
Postgraduate, Kullanıcı hareketlerinin etmen-tabanlı sistemler ile temsili: Alışveriş merkezi örneği, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mimari Tasarımda Bilişim (Yl) (Tezli), 2007

Research Areas

Social Sciences and Humanities, Sociology, Computer Sciences, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Technische Universiteit Eindhoven, Built Environment, Built Environment, 2009 - 2013

Academic and Administrative Experience

Istanbul Medipol University, 2020 - Continues
Istanbul Medipol University, 2020 - Continues
Beykoz University, 2018 - 2018
Beykoz University, 2018 - 2018

Courses

Smart Cities and Big Data, Undergraduate, 2019 - 2020

Introduction to Design I (Interior Architecture), Undergraduate, 2019 - 2020

Akıllı Kentler ve Büyük Veri, Undergraduate, 2019 - 2020

Introduction to Design II (Architecture), Undergraduate, 2019 - 2020

Introduction to Design I (Architecture), Undergraduate, 2019 - 2020

Mimari Tasarımda Karar Destek Sistemleri, Doctorate, 2019 - 2020

Bitirme Projesi, Undergraduate, 2019 - 2020

Advising Theses

Şehnaz C. D., Geleneksel kilim motiflerinin algoritma destekli tasarımyaklaşımları ile yeniden yorumlanması, Postgraduate, Y.AN(Student), 2019

Şehnaz C. D., Navigating through an unfamiliar environment: The difference in spatial knowledge acquisition between using a paper map and an electronic navigation device, Postgraduate, N.Wielens(Student), 2011

Articles Published in Other Journals

I. **Emergence and complexity in agent-based modeling: Review of state-of-the-art tools**
    CENANİ DURMAZOĞLU Ş.
    Journal of Computational Design, vol.2, no.2, pp.1-24, 2021 (Peer-Reviewed Journal)

II. **A Decision Support System for Placing Shared E-Scooters: A Case Study for Istanbul**
    MORALIOĞLU B., CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.
    Journal of Computational Design, vol.2, no.2, pp.127-148, 2021 (Peer-Reviewed Journal)

III. **Determination of bicycle sharing stations: GIS-based multi-criteria decision making approach**
    ALKILINÇ E., CENANİ Ş., ÇAĞDAŞ G.
    Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.23, no.2, pp.471-489, 2021 (Peer-Reviewed Journal)

IV. **Personalized Transportation Model Proposal to Support Micromobility Between Public Spaces**
    aksoy e. s., CENANİ Ş., ÇAĞDAŞ G.
    İdealkent, vol.12, no.33, pp.1006-1037, 2021 (Peer-Reviewed Journal)

V. **An Introduction to Design Studio Experience: The Process, Challenges and Opportunities**
    CENANİ DURMAZOĞLU Ş., AKSOY Y.
    Journal of Design Studio, vol.2, no.2, pp.57-69, 2020 (Peer-Reviewed Journal)

VI. **Boğaz Hattındaki Trafiğin Optimizasyonuna Yönelik Bir Karar Destek Sistemi Önerisi: E-Bosphorus**
    DEMİRTAŞ E., CENANİ DURMAZOĞLU Ş.
    Journal of Computational Design, vol.1, no.3, pp.49-70, 2020 (Peer-Reviewed Journal)

VII. **Smart Bicycle-Sharing System Design for the Historical Peninsula of Istanbul**
    KIRDAR G., CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.
    İdealkent, vol.10, no.27, pp.630-652, 2019 (Peer-Reviewed Journal)

VIII. **Cognitive learning approach for travel demand modeling: estimation results**
    CENANI S., Arentze T., Timmermans H.
    Transportation Research Procedia, vol.22, pp.55-64, 2017 (Peer-Reviewed Journal)

IX. **A cognitive learning model for dynamic activity-travel patterns**
    CENANİ DURMAZOĞLU Ş., Arentze T., TIMMERMANS H.
    PROCEDIA SOCIAL AND BEHAVIOURAL SCIENCES, vol.54, pp.580-588, 2012 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Modeling cognitive learning of urban networks in daily activity-travel behavior**

CENANI S.
Technische Universiteit Eindhoven, Eindhoven, 2013

Refereed Congress / Symposium Publications in Proceedings

I. **In-Vehicle Personalized Routing for A Heterogeneous Group: An Experience-Based Method for Decision Support System**
ÇAVUŞ Ö., CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.
31st European Conference on Operational Research (EURO 2021), ATİNA, Greece, 11 - 14 July 2021

II. **Deprem kaynaklı tsunami durumunda tahliye için karar destek sistemi önerisi: Kadıköy Caferağa ve Osmanağa mahallelerinde vaka analizi**
EFENDİOĞLU G., CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.
15. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu (MSTAS2021), İstanbul, Turkey, 28 - 29 June 2021

III. **A Decision Support Mechanism for LEED Building Design and Construction: Transit Stations**
AKARCALI G. Z., CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.
6th International Project and Construction Management e-Conference (e-IPCMC2020), İstanbul, Turkey, 12 - 14 November 2020

IV. **An Agent-Based Home Exchange Model to Reduce Commute Times of University Students**
BUYRUK Y., CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.
International Symposium of Architecture, Technology, Innovation 2020 (ATI 2020): Smart Cities and Smart Buildings, İzmir, Turkey, 26 - 28 August 2020

V. **Decision Support Model Proposal to Increase Urban Green Spaces in the Context of Accessibility**
KONDAKCI E., CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.
IV. International Congress on Urban Studies (ICUS 2019), Ankara, Turkey, 16 - 18 October 2019, pp.756-782

VI. **A Decision Support System to ProvideReal-Time Alternatives for Placement of E_Scooters in a Smart City: A Case Study of İstanbul**
Moralıoğlu B., CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.
MCDM XXV: The International Conference on Multiple Criteria Decision Making, İstanbul, Turkey, 16 - 21 June 2019, pp.150-151

VII. **Algoritma Destekli Tasarım ile Motif Üretimi**
An Y., CENANİ DURMAZOĞLU Ş., ALAÇAM S.
XIII. Mimarlıkta Sayısal Tasarım Ulusal Sempozyumu: Örtüşmeler, Kesişmeler, Kocaeli, Turkey, 17 - 18 June 2019, pp.297-312

VIII. **Şehirleri Yeniden Düşünürken: Simge Yapıların Yayaların Görsel-Mekânsal Hafızasına Etkileri Üzerine Bir Çalışma**
CENANİ DURMAZOĞLU Ş.
3rd International Conference on Urban Studies (ICUS 2018), Strasbourg, France, 26 - 28 October 2018

IX. **As A Smart and Sustainable Urban Planning Approach: Home Exchange Model for University Students to Reduce Commuting Times**
Buyruk Y., CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.
3rd International Conference on Urban Studies Symposium, Strasbourg, France, 26 - 28 October 2018, vol.8, pp.182-202

X. **Smart Bicycle Sharing System Design for the Historical Peninsula of Istanbul**
Kırdar G., CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.
3rd International Conference on Urban Studies Symposium, Strasbourg, France, 26 - 28 October 2018, pp.34

XI. **A modeling approach for cognitive learning of activity-travel patterns**
CENANİ DURMAZOĞLU Ş., Arentze T., TIMMERMANS H.
11th International Conference on Design and Decision Support Systems in Architecture and Urban Planning (DDSS 2012), Eindhoven, Netherlands, 27 - 29 August 2012

XII. **Agent-based modeling of cognitive learning of dynamic activity-travel patterns**

CENANİ DURMAZOĞLU Ş., Arentze T., TIMMERMANS H.

13th International Conference on Travel Behaviour Research (IATBR 2012), Toronto, Canada, 15 - 19 July 2012

XIII. **A model to explore cognitive learning of shopping locations**

CENANİ DURMAZOĞLU Ş., Arentze T., TIMMERMANS H.

19th International Conference of the European Institute of Retailing and Services Studies (EIRASS 2012), Viyana, Austria, 9 - 12 July 2012

XIV. **Use of ICT and spatial knowledge gaining in the built environment**

WIELENS N., CENANİ DURMAZOĞLU Ş., KEMPERMAN A., BORGERS A.

9th Biennial Conference on Environmental Psychology (Environment 2.0), Eindhoven, Netherlands, 26 - 28 September 2011

XV. **The effects of landmarks on individuals' activity-travel behavior and development of landmark-based spatial knowledge**

CENANİ DURMAZOĞLU Ş., TIMMERMANS H.

18th International Conference of the European Institute of Retailing and Services Studies (EIRASS 2011), San Diego, United States Of America, 15 - 18 July 2011

XVI. **Development of a dynamic network model for activity-travel patterns**

CENANİ DURMAZOĞLU Ş., Arentze T., TIMMERMANS H.

BIVEC/GIBET Transport Research Day, Namur, Belgium, 25 May 2011, pp.178-189

XVII. **U4IA: Emerging urban futures and opportune repertoires of individual adaptation program overview**

CENANI S., Arentze T., Timmermans H.

10th International Conference on Design and Decision Support Systems (DDSS 2010), Netherlands, 19 - 21 July 2010

XVIII. **Modeling the evolution of cognitive representation of urban networks key concepts and mechanisms**

CENANI S., Arentze T., Timmermans H.

10th International Conference on Design and Decision Support Systems, DDSS 2010, Netherlands, 19 - 21 July 2010

XIX. **Route choice behavior of individuals: A case study in retail districts of Eindhoven**

CENANİ DURMAZOĞLU Ş., Arentze T., TIMMERMANS H.

17th International Conference of the European Institute of Retailing and Services Studies (EIRASS 2010), İstanbul, Turkey, 2 - 05 July 2010

XX. **Agent-based system for modeling user behavior in shopping malls: MallSim**

CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.

26th International Conference on Education and Research in Computer Aided Architectural Design in Europe (eCAADe 2008), Antwerp, Belgium, 17 - 19 September 2008, pp.635-641

XXI. **A shape grammar study: Form generation with geometric Islamic patterns**

CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.

10th International Generative Art Conference, Milan, Italy, 12 - 14 December 2007, pp.1-7

XXII. **Representation of user movements with multi-agent systems: Shopping malls**

CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.

25th International Conference on Education and Research in Computer Aided Architectural Design in Europe (eCAADe 2007), Frankfurt, Germany, 26 September 2007, pp.559-565

XXIII. **Shape grammar of geometric Islamic ornaments**

CENANİ DURMAZOĞLU Ş., ÇAĞDAŞ G.

24th International Conference on Education and Research in Computer Aided Architectural Design in Europe (eCAADe 2006), Volos, Greece, 6 - 09 September 2006, pp.290-297