



IYTE Mimarlık Bölümü
MIAK Ulusal Akreditasyon Başvurusu 2020
Öğretim Elemanlarının Özgeçmişleri

EK 1.

1. Name, Surname, Title : Hasan Burak ÇAVKA, Assistant Professor

2. Education Credentials :

Degree	Department	University	Year
B. Arch.	Architecture	Dokuz Eylul University	1999
MASc.	Civil Engineering	The University of British Columbia	2010
PhD	Civil Engineering	The University of British Columbia	2017

3. Academic Experience :

Title	Department	University/Place	Year
Assist. Prof.	Architecture	Izmir Institute of Technology	Oct 2019 - Present
Assist. Prof.	Architecture	Yasar University	Sep 2018 – Sep 2019
Research Assistant	Civil Engineering	The University of British Columbia	2008 - 2016

4. Areas of Expertise in Architecture

Technology use in the industry for the project lifecycle

Virtual Design and Construction (VDC)

Building Information Modeling (BIM)

5. Courses Taught (Last Two Years)

Academic Year	Semester	Code	Name of Course	Weekly Hours		Number of Students
				Theory	Application	
2020-2021	Fall	AR 301	Architectural Design Studio	4	8	13
		AR 536	Virtual Design and Construction	2	2	7
2019-2020	Fall	AR 301	Architectural Design Studio	4	8	53
	Spring	AR 202	Architectural Design II	4	8	18
AR 514		Architectural Design Research II	2	2	8	
2018-2019	Fall	ARCH 3310	Architectural Design IV	2	6	30
		ARCH 3380	Building Information Management (BIM)	3	0	42
		ARCH 3318	Building Technologies III: Construction Project	2	2	24
	Spring	ARCH 3325	Building Project Management	3	2	118
		ARCH 3320	Architectural Design III	2	6	30



6. Supervised Graduate Theses / Dissertations

6.1. Masters

Kuru, Nevzat. “Heritage BIM: Moving from the scanned data to 3D model”, Izmir Institute of Technology, Master of Science in Architecture, in progress.

Sentayehu, Nebiat. “Investigation of BIM adoption and implementation within the architectural domain”, Izmir Institute of Technology, Master of Science in Architecture, in progress.

Baçnak, Zeynep Tuğçe. “The Interoperability of BIM in Early Architectural Design Phase: Case Study on Mimarlar ve Han Tümertekin Office”, Izmir Institute of Technology, Master of Science in Architecture, in progress (co-advisor).

6.2. PhD

Yönder, Mustafa Veli. “Computational design approach in architecture”, Izmir Institute of Technology, Master of Science in Architecture, in progress (co-advisor).

7. Publications

7.1. Articles published in international referred journals (SCI, SSCI, Arts and Humanities, Area Indexed)

Cavka, Hasan Burak & StaubFrench, Sheryl & Poirier Erik. “Levels of BIM compliance for model handover”. 2018. Journal of Information Technology in Construction (ITCON) (23), 243-258.

Cavka, Hasan Burak & StaubFrench, Sheryl & Poirier, Erik. “Developing owner information requirements for BIM-enabled project delivery and asset management”. 2017. Automation in Construction, 83, 169-183., Doi: 10.1016/j.autcon.2017.08.006.

Zadeh, Puyan A. & Wang Guan & Cavka, Hasan Burak & StaubFrench, Sheryl & Pottinger, Rachel. “Information Quality Assessment for Facility Management”. 2017. Advanced Engineering Informatics, 33, 181-205., Doi: 10.1016/j.aei.2017.06.003.

Cavka, Hasan Burak & StaubFrench, Sheryl & Pottinger, Rachel. “Evaluating the Alignment of Organizational and Project Contexts for BIM Adoption: A Case Study of a Large Owner Organization”. 2015. Buildings, 5(4), 1265-1300., Doi: 10.3390/buildings5041265.

7.2. Articles published in other international refereed journals

7.3. Papers presented in international conferences and published as proceedings

Zadeh, Puyan A. & Cavka, Hasan Burak & StaubFrench, Sheryl. “BIM Information Quality Analysis for Space Management”. 2016. 16th International Conference on Computing in Civil and Building Engineering (ICCCBE)

Cavka, Hasan Burak & StaubFrench, Sheryl & Pottinger, Rachel. “Evaluation of organisational context and requirements for leveraging building information models to support handover and operations and maintenance”. 2015. 5th International Construction Specialty Conference of the Canadian Society for Civil Engineering (ICSC)

Cavka, Hasan Burak & StaubFrench, Sheryl & Tory, Melanie. “Characterizing Bottlenecks in Building Design Coordination Meetings”. 2015. 5th International Construction Specialty Conference of the Canadian Society for Civil Engineering (ICSC)



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Cavka, Hasan Burak & StaubFrench, Sheryl & Pottinger, Rachel. "Case study of BIM handover to support building operations". 2013. 4th Canadian Society of Civil Engineers Annual Conference (CSCE)

7.4. International books or chapters

7.5. Articles published in national refereed journals

7.6. Papers presented in national conferences and published as proceedings

7.7. National books or chapters

Cavka, Hasan Burak. Chapter title: "Bina Bilgi Modellemesinin Geliştirilmesi". 2016. Bütünleşik Bina Tasarımı Yaklaşımı: Bina Performansına Yönelik Öncelik ve Hedefler. B2B Medya - Uzerler Matbaası, Editor: Güzer Abdi, Kahraman İlker, Özeler Kanan Nilay, Tombak Esra, Kabakçı Oğuz Kürşat, Gül Korkmaz. Edition number: 1. Number of pages 267, pages 91-94, ISBN:978-605-5310-89-9

Cavka, Hasan Burak. Chapter title: "Bina bilgi modellemesinin BBTY sürecindeki rolü ve Türkiye İnşaat sektörü için uygulama öncelikleri". 2016. Bütünleşik bina tasarımı yaklaşımı ile proje geliştirme süreci uygulama kılavuzu. B2B Medya, Uzerler Matbaası, Editors: Güzer Abdi, Kahraman İlker, Kanan Nilay Özeler, Tombak Esra, Kabakçı Oğuz Kürşat, Gül Korkmaz. Edition number:1. Number of pages 48, pages 4-11, ISBN:978-605-5310-87-5

Cavka, Hasan Burak. Chapter title: "Tasarım ve yapım sürecinde bina bilgi modellemesinin rolü". 2016. Bütünleşik bina tasarımı yaklaşımının Türkiye ortamı ve koşullarına uyarlama raporu. B2B Medya, Uzerler Matbaası, Editors: Güzer Abdi, Kahraman İlker, Kanan Nilay Özeler, Tombak Esra, Kabakçı Kürşat Oğuz, Gül Korkmaz, Edition number:1, Number of pages 122, pages 8-21, ISBN:978-605-5310-88-2

Cavka, Hasan Burak. Chapter title: "Bina Bilgi Modellemesi ve Kullanım Alanları". Sürdürülebilir Yapı Tasarımı Kılavuzu. 2015. Mimarlar Odası İzmir Şubesi Yayınları, Arkadaş Matbaacılık, Editor: İlker Kahraman, Edition number 1, Number of pages 132, pages 95-100, ISBN:978-605-01-0720-3

7.8. Other Publications

8. Scientific Research Projects

On September 4, 2020, The Scientific and Technological Research Council of Turkey awarded Dr. Cavka's business proposal as part of the "1512 Tech-entrepreneurship Capital Support Program". The project commenced on November 1, 2020. The project is BIM enabled construction punch list application.

2010-2011 Building Information Modeling (BIM) 'Best Practices' Report. Research coordinators: StaubFrench Sheryl, Forges Daniel. Researchers: Samilski, Mike & Nepal, Madhav & Cavka, Hasan Burak & Iordanova, Ivanka & Kassaian, Amir & Abdula, Basel. Alberta BIM Centre for Excellence (ACE), Productivity Alberta, Western Economic Diversification

2010-2011 Improving productivity and efficiency in the construction industry using information technologies. Research coordinators: StaubFrench, Sheryl & Forges, Daniel. Researchers: Cavka, Hasan Burak & Tahrani, Souha. Initiated by the Centre Facilitating Research and Innovation in Organizations (CEFRIO). Project was carried out by the partnership between the Industrial Research Assistance Program of the National Research Council of Canada (NRC-IRAP) and Center d'études and research for the advancement of construction in Quebec (CERACQ).



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9. Administrative Duties

Name of Duty	University	Year
Architectural accrediting board accreditation commission member	Izmir Institute of Technology	2019-Present
IZTECH online/distant teaching commission	Izmir Institute of Technology	2020- Present
Adaptation commission member	Yasar University	2018-2019
PhD program application commission member	Yasar University	2018-2019

10. Memberships / Fellowships

Project Management Professional (PMP), Project Management Institute, credential ID 1902473
 Chamber of Architects, Section of UIA in Turkey

11. Awards

British Columbia Construction Roundtable (BCRR) scholarship, April 2014

12. Other (Design, Art, or related Events involved)

BIM4TURKEY, Advisory Board Member, Izmir representative