

Bahriye Ilhan Jones
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Architecture and Built Environment Department
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Research interests

Use and development of BIM tools
Sustainable construction management
Digitalisation and automation in the built environment

Qualifications

Construction Management, PhD
Award Date: 5 Sept 2014

Employment

Assistant Professor
Architecture and Built Environment Department
Northumbria University
20 Sept 2021 → present

Research outputs

Blockchain-driven smart contracts: an overview of application areas and gap identification in construction management literature

Eze, E. C., Ameyaw, E. E. & Ilhan Jones, B., 27 Jul 2023, (Accepted/In press).

IFC-based embodied carbon benchmarking for early design analysis

Alwan, Z. & Ilhan Jones, B., 1 Oct 2022, In: Automation in Construction. 142, 12 p., 104505.

Use of Digital Learning Stations to Promote Active Learning at Undergraduate Level: The Case of Building Production Systems in Architecture Education

Acar, E. & Ilhan Jones, B., 10 Dec 2021, *Online Education: Teaching in a Time of Change*. AMPS - Architecture_Media_Politics_Society, p. 66-76 p. (AMPS Proceedings Series ; vol. 23, no. 1).

A study of building information modeling (BIM) uptake and proposed evaluation framework

Jones, B. I., 1 Sept 2020, In: Journal of Information Technology in Construction (ITcon). 25, p. 452-468 17 p.

Robust Localization with Architectural Floor Plans and Depth Camera

Watanabe, Y., Amaro, K. R., Ilhan, B., Kinoshita, T., Bock, T. & Cheng, G., Jan 2020, *Proceedings of the 2020 IEEE/SICE International Symposium on System Integration, SII 2020*. Institute of Electrical and Electronics Engineers Inc., p. 133-138 6 p. 9025984. (Proceedings of the 2020 IEEE/SICE International Symposium on System Integration, SII 2020).

BIM and sustainability integration: Multi-agent system approach

Ilhan, B. & Kog, F., 2020, *Advances in Building Information Modeling - 1st Eurasian BIM Forum, EBF 2019, Revised Selected Papers*. Ofluoglu, S., Isikdag, U. & Ozener, O. O. (eds.). Springer, p. 125-136 12 p. (Communications in Computer and Information Science; vol. 1188 CCIS).

Innovative robotics and automation for offsite manufacturing

Ilhan, B., Bock, T., Linner, T., Iturralde, K., Pan, W. & Hu, R., 11 Jul 2019, *Offsite Production and Manufacturing for Innovative Construction: People, Process and Technology*. CRC Press, p. 309-336 28 p.

Measuring construction for social, economic and environmental assessment

Ilhan, B. & Yobas, B., 30 May 2019, In: Engineering, Construction and Architectural Management. 26, 5, p. 746-765 20 p.

Green building assessment tool (GBAT) for integrated BIM-based design decisions
Ilhan, B. & Yaman, H., 1 Oct 2016, In: Automation in Construction. 70, p. 26-37 12 p.

Distinguishing object category properties and property ranges in the IFC standard for visual pattern recognition
Ilhan, B., Yaman, H., Fathi, H., Brilakis, I. & Sacks, R., 2012, *eWork and eBusiness in Architecture, Engineering and Construction - Proceedings of the European Conference on Product and Process Modelling 2012, ECPPM 2012*. CRC Press, p. 557-564 8 p. (eWork and eBusiness in Architecture, Engineering and Construction - Proceedings of the European Conference on Product and Process Modelling 2012, ECPPM 2012).

A comparative input-output analysis of the construction sector in Turkey and EU countries
Ilhan, B. & Yaman, H., 3 May 2011, In: Engineering, Construction and Architectural Management. 18, 3, p. 248-265 18 p.

Examining economic impact and import dependency of the Turkish construction sector: An input-output analysis, 1998 and 2002
Ilhan, B. & Yaman, H., 2010, *COBRA 2010 - Construction, Building and Real Estate Research Conference of the Royal Institution of Chartered Surveyors*. (COBRA 2010 - Construction, Building and Real Estate Research Conference of the Royal Institution of Chartered Surveyors).

Measuring the effectiveness of it utilization in construction: A different point of view
Ilhan, B. & Yaman, H., 2010, *Association of Researchers in Construction Management, ARCOM 2010 - Proceedings of the 26th Annual Conference*. p. 643-652 10 p. (Association of Researchers in Construction Management, ARCOM 2010 - Proceedings of the 26th Annual Conference).

Construction and development: Analyzing the construction sector in Turkey and EU countries
Ilhan, B. & Yaman, H., 1 Jan 2009, *Managing it in Construction/Managing Construction for Tomorrow*. CRC Press, p. 765-770 6 p.

Activities

International Journal of Digital Innovation in the Built Environment (Journal)

Bahriye Ilhan Jones (Member of editorial board)
2020 → ...

Construction Management and Economics (Journal)

Bahriye Ilhan Jones (Reviewer)
2018 → ...

CIB W119, International Council for Research and Innovation in Building and Construction, Customised Industrial Construction Working Commission (External organisation)

Bahriye Ilhan Jones (Member)
2017 → ...

Sustainable Building Laboratory, International Conference on Advances on Sustainable Cities and Buildings Development (Event)

Bahriye Ilhan Jones (Reviewer)
2017

Automation in Construction (Journal)

Bahriye Ilhan Jones (Reviewer)
2016 → ...

Engineering, Construction and Architectural Management (Journal)

Bahriye Ilhan Jones (Reviewer)
2016 → ...

Managing Construction for Tomorrow (MC4T) International Conference
Bahriye Ilhan Jones (Organiser)
2009