

| Year | Publication title                                                                                                                              | Authors                                                                                                                                                                                                        |
|------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1988 | Analysis of robotic surface finishing work on construction site                                                                                | M. Skibniewski and C. Henrickson                                                                                                                                                                               |
| 1989 | Robotic applications to construction                                                                                                           | M. Skibniewski and J. Russel                                                                                                                                                                                   |
| 1990 | Automation and robotics for road construction and maintenance                                                                                  | M. Skibniewski and C. Henrickson                                                                                                                                                                               |
| 1994 | Automation and robotics opportunities: construction versus manufacturing                                                                       | J. G. Everett and A. H. Slocum                                                                                                                                                                                 |
| 1995 | Robotics in civil engineering                                                                                                                  | Carl Haas, M. Skibniewski and E. Bundy                                                                                                                                                                         |
| 2002 | ROMA robots for inspection of steel based infrastructures                                                                                      | C. Balaguer, A. Gimenez and M. Abderrahim                                                                                                                                                                      |
| 2002 | Robotic excavation in construction automation                                                                                                  | Q. Ha, M. Santos, Q. Nguyen, D. Rye and H. Durrant-Whyte                                                                                                                                                       |
| 2004 | Real-time "Sense-and-Act" operation for construction robots                                                                                    | B. Kahane and Y. Rosenfeld                                                                                                                                                                                     |
| 2006 | The application of the Human-Robot cooperative system for construction robot manipulating and installing heavy materials                       | K. Y. Lee, S. Y. Lee, J. H. Choi, S. H. Lee and C. S. Han                                                                                                                                                      |
| 2007 | Human-robot cooperation control for installing heavy construction materials                                                                    | S. Y. Lee, K. Y. Lee, S. H. Lee, J. W. Kim and C. S. Han                                                                                                                                                       |
| 2007 | MFR (multi field robot) for installing construction materials                                                                                  | S. Y. Lee, Y. S. Lee, B. S. Park, S. H. Lee and C. S. Han                                                                                                                                                      |
| 2009 | Automation and robotics in construction: international research and achievements                                                               | E. K. Zavadskas                                                                                                                                                                                                |
| 2010 | An improved multipurpose field robot for installing construction materials                                                                     | S. Y. Lee, S. Yu, S. Yu and C. Han                                                                                                                                                                             |
| 2010 | Trend analysis of research and development on automation and robotics technology in the construction industry                                  | H. Son, C. Kim, H. Kim, S. H. Han and M. K. Kim                                                                                                                                                                |
| 2011 | Parametric robot control                                                                                                                       | J. Braumann and S. Brell-Cokcan                                                                                                                                                                                |
| 2012 | Mobile robotic fabrication on construction sites: dimRob                                                                                       | V. Helm, S. Ercan, F. Gramazio, M. Kohler                                                                                                                                                                      |
| 2012 | Towards a platform-independent cooperative human robot interaction system: An architecture for learning and executing actions and shared plans | S. Lalle, U. Pattacini, S. Lemaignan, A. Lenz, C. Melhuish, L. Natale, S. Skachek, K. Hamann, J. Steinwender, E. A. Sisbot, G. Metta, J. Guitton, R. Alami, M. Warnier, T. Pipe, F. Warneken and P. F. Dominey |
| 2013 | Extending automation of building construction - survey on potential sensor technologies and robotic applications                               | P. Vähä, T. Heikkilä, P. Kilpeläinen, M. Järvilouma and E. Gambao                                                                                                                                              |
| 2014 | Introduction to human-robot cooperation technology at construction sites                                                                       | S. Lee and J. I. Moon                                                                                                                                                                                          |
| 2014 | Visual robot programming - linking design, simulation, and fabrication                                                                         | J. Braumann and S. Brell-Cokcan                                                                                                                                                                                |
| 2015 | Construction automation with autonomous mobile robots: a review                                                                                | H. Ardiny, S. Witwicki and F. Mondada                                                                                                                                                                          |
| 2015 | Robotics and computer-integrated manufacturing                                                                                                 | M. Rath Pedersen, L. Nalpantidis, R. Skovgaards Andersen, C. Schou, S. Bogh, V. Krüger and O. Madsen                                                                                                           |
| 2016 | Automated construction of masonry buildings using cable-driven parallel robots                                                                 | T. Bruckmann, H. Mattern, A. Spengler, C. Reicherst, A. Malkwitz and M. König                                                                                                                                  |

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| 2016 | Human-machine interaction for intuitive programming of assembly tasks in construction                                                | S. Stumm, J. Braumann and S. Brell-Cokcan                                             |
| 2016 | Human-robot interaction: status and challenges                                                                                       | T. B. Sheridan                                                                        |
| 2017 | Potential benefits of digital fabrication of complex structures: environmental assessment of a robotically fabricated concrete wall  | I. Agusti-Juan, F. Müller, N. Hack, T. Wangler and G. Habert                          |
| 2017 | Review of robotic infrastructure inspection systems                                                                                  | D. Lattanzi and G. Miller                                                             |
| 2017 | Bibliometric analysis and review of building information modelling literature published between 2005 and 2015                        | R. Santos                                                                             |
| 2018 | A framework of indicators for assessing construction automation and robotics in the sustainability context                           | M. Pan, T. Linner, W. Pan, H. Cheng and T. Bock                                       |
| 2018 | An interactive augmented reality tool for constructing free-form modular surfaces                                                    | A. Fazel and A. Izadi                                                                 |
| 2018 | Automation in Construction                                                                                                           | Q. Chen, B. Garca de Soto and B. T. Adey                                              |
| 2018 | Developing and laboratory testing a smart system for automated falsework inspection in construction                                  | D. Atherinis, B. Bakowski, M. Velcek and S. Moon                                      |
| 2018 | Digital in situ fabrication - challenges and opportunities for robotic in situ fabrication in architecture, construction, and beyond | J. Buchli, M. Giffthaler, N. Kumar, M. Lussi, T. Sandy, K. Dörfler and N. Hack        |
| 2018 | Productivity of digital fabrication in construction: cost and time analysis of a robotically built wall                              | B. Garcia de Soto, I. Augusti-Juan, S. Joss, J. Hunhevicz, G. Habert and B. T. Adey   |
| 2018 | Rethinking the roles in the AEC industry to accommodate digital fabrication                                                          | B. Garcia de Soto, I. Augusti-Juan, S. Joss, J. Hunhevicz, G. Habert and B. T. Adey   |
| 2018 | Survey on human-robot collaboration in industrial settings: safety, intuitive interfaces and applications                            | V. Villani, F. Pini, F. Leali and C. Secchi                                           |
| 2018 | Technology gaps in human-machine interfaces for autonomous construction robots                                                       | J. Czarnowski, A. Dabrowski, M. Macias, J. Glowka and J. Wrona                        |
| 2019 | A research roadmap for off-site construction: automation and robotics                                                                | J. Bowmaster and J. Rankin                                                            |
| 2019 | Construction automation and robotics for high-rise buildings over the past decades: a comprehensive review                           | S. Cai, Z. Ma, M.J. Skibniewski and S. Bao                                            |
| 2019 | Determinants of adoption of robotics in precast concrete production for buildings                                                    | M. Pan and W. Pan                                                                     |
| 2019 | Construction automation and robotics for high-rise buildings over the past decades: a comprehensive review                           | S. Cai, Z. Ma, M.J. Skibniewski and S. Bao                                            |
| 2019 | Ethical perspectives on robotisation and automation in the construction industry                                                     | C. E. Muishout                                                                        |
| 2019 | Implementation of an augmented reality AR workflow for human robot collaboration in timber prefabrication                            | O. Kyjaned and L. Vasey                                                               |
| 2019 | Mapping out research focus for robotics and automation research in construction-related studies                                      | D. O. Aghimien, C. O. Aigabavboa, A. E. Oke and W. D. Thwala                          |
| 2019 | Robotic technologies in concrete building construction: a systematic review                                                          | M. Gharbia, A. Y. Chang-Richards and R. Y. Zhong                                      |
| 2019 | The challenges of the implementation of construction robotics technologies in the construction                                       | M. Y. Bin Yahya, L. H. Yin, A. B. Md. Yassin, R. Omar, R. O. Anak Robien and N. Kasim |

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| 2019 | Automation and robotics in industrialized building systems (IBS): the potential criteria for measurements                                                | M. N. A. N. Abd Rashid and D. Ismail                                           |
| 2020 | An ontology for human-robot collaboration                                                                                                                | A. Umbrico, A. Orlandini and A. Cesta                                          |
| 2020 | Bibliometric analysis on the status quo of robotics in construction                                                                                      | T. Boulos, F. Sartipi and K. Khoshaba                                          |
| 2020 | Comparison of construction robot and traditional methods for drilling, drywall, and layout tasks                                                         | C. Brosque, G. Skeie, J. Örn, J. Jacobson, T. Lau and M. Fischer               |
| 2020 | Construction 4.0: a literature review                                                                                                                    | E. Forcael, I. Ferrari, A. Opazo-Vega and J. A. Pulido-Arcas                   |
| 2020 | Human-robot collaboration in construction: opportunities and challenges                                                                                  | C. Brosque, E. Galbally, O. Khatib and M. Fischer                              |
| 2020 | Human-robot collaboration: a fabrication framework for the sequential design and construction of unplanned spatial structures                            | E. P. G. Brrun, I. Ting, S. Adriaenssens and S. Parascho                       |
| 2020 | Real-time process-level digital twin for collaborative human-robot construction work                                                                     | X. Wang, C. J. Liang, C. C. Menassa and V. R. Kamat                            |
| 2020 | Robot-assisted tower construction - a method to study the impact of a robot's allocation behaviour on interpersonal dynamics and collaboration in groups | M. F. Jung, D. Dirfranzo, S. Shen, B. Stoll, H. Clauer and A. Lawrence         |
| 2020 | Rock print pavillon: robotically fabricating architecture from rock and string                                                                           | P. Aejmelaesus-Lindström, G. Rusenova, A. Mirjan, J. M. Ibanez and F. Gramazio |
| 2021 | Aerial robotic technologies for civil engineering: established and emerging practice                                                                     | M. R. Freeman, M. M. Kashani and P. J. Vardanega                               |
| 2021 | Human-robot collaboration in construction: classification and research trends                                                                            | C. Liang, X. Wang, V. R. Kamat and C. C. Menassa                               |
| 2021 | Human-robot interaction in construction: a literature review                                                                                             | M. H. Ghasempourabadi and M. Taraz                                             |
| 2021 | Human-robot collaboration: a literature review and augmented reality approach in design                                                                  | S. A. Green, M. Billingham, X. Chen and J. G. Chase                            |

Untitled Table: Literature included in the bibliometric analysis corpus