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Public Profile

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Pieter Vermaas

Total Citations

Web of Science®	216
Scopus	280

Publications

- **Scientific Journals**

- Scientific journal paper

1	Eloy, S. & Vermaas, P. (2022). Architectural approaches to housing customization: Introducing the Inhabitant-Driven Customization approach and the MyChanges tool. Archnet-IJAR International Journal of Architectural Research. 16 (2), 396-412 - Times Cited Web of Science®: 4 - Times Cited Scopus: 1 - Times Cited Google Scholar: 5
2	Eloy, S., Vermaas, P. E. & Andrade, M. A. P. (2018). The quality of designs by shape grammar systems and architects: a comparative test on refurbishing Lisbon's Rabo-de-Bacalhau apartments. Journal of Architecture and Planning Research. 34 (4), 271-294 - Times Cited Scopus: 5 - Times Cited Google Scholar: 9

3	Vermaas, P. (2016). A logical critique of the expert position in design research: beyond expert justification of design methods and towards empirical validation. Design Science. 2 - Times Cited Web of Science®: 13 - Times Cited Scopus: 17
4	Vermaas, P. (2016). Towards precedence that justifies the knowledge claims of design methods. Design Journal. 19 (2), 195-204 - Times Cited Web of Science®: 1 - Times Cited Scopus: 2
5	Vermaas, P. E. (2013). The coexistence of engineering meanings of function: four responses and their methodological implications. Artificial Intelligence for Engineering Design, Analysis and Manufacturing. 27 (3), 191-202 - Times Cited Web of Science®: 72 - Times Cited Scopus: 88
6	Vermaas, P. E. (2013). On the formal impossibility of analysing subfunctions as parts of functions in design methodology. Research in Engineering Design. 24 (1), 19-32 - Times Cited Web of Science®: 9 - Times Cited Scopus: 15
7	Vermaas, P., Carrara, M., Borgo, S. & Garbacz, P. (2013). The design stance and its artefacts. Synthese. 190 (6), 1131-1152 - Times Cited Web of Science®: 15 - Times Cited Scopus: 17

• Books and Book Chapters

- Book chapter

1	Vermaas, P. & Eloy, S. (2021). Shape grammar systems as a technology for flexible design for values in cities: Giving architectural design to inhabitants. In Michael Nagenborg, Taylor Stone, Margoth González Woge, Pieter E. Vermaas (Ed.), Technology and the city: Towards a philosophy of urban technologies. (pp. 225-252). Cham: Springer. - Times Cited Google Scholar: 1
2	Franssen, Maarten, Vermaas, P., Kroes, Peter & Meijers, Anthonie W. M. (2016). Editorial Introduction: Putting the Empirical Turn into Perspective. In Philosophy of Technology After the Empirical Turn. - Times Cited Scopus: 10
3	Vermaas, P. (2016). An Engineering Turn in Conceptual Analysis. In Philosophy of Technology After the Empirical Turn. - Times Cited Web of Science®: 2 - Times Cited Scopus: 5
4	Thurgood, Clementine, Dorst, Kees, Bucolo, Sam, van der Bijl-Brouwer, Mieke & Vermaas, P. (2015). DESIGN INNOVATION FOR SOCIETAL AND BUSINESS CHANGE. In Ds 80-8 Proceedings of the 20th International Conference on Engineering Design (Iced 15) Vol 8: Innovation and Creativity. - Times Cited Scopus: 1
5	Vermaas, P., Dorst, Kees & Thurgood, Clementine (2015). FRAMING IN DESIGN: A FORMAL ANALYSIS AND FAILURE MODES. In Ds 80-3 Proceedings of the 20th International Conference on Engineering Design (Iced 15) Vol 3: Organisation and Management. - Times Cited Web of Science®: 1 - Times Cited Scopus: 10

6	Borgo, Stefano, Franssen, Maarten, Garbacz, Pawel, Kitamura, Yoshinobu, Mizoguchi, Riichiro & Vermaas, P. (2011). Technical Artifact: An Integrated Perspective. In Formal Ontologies Meet Industry: Proceedings of the Fifth International Workshop (Fomi 2011). - Times Cited Web of Science®: 15 - Times Cited Scopus: 15
7	Borgo, Stefano, Carrara, Massimiliano, Vermaas, P. & Garbacz, Pawel (2006). Behavior of a Technical Artifact: An Ontological Perspective in Engineering. In Formal Ontology in Information Systems. - Times Cited Web of Science®: 9 - Times Cited Scopus: 11
8	Vermaas, P. (2003). Modal interpretations - A general framework to interpret quantum mechanics. In Philosophical Dimensions of Logic and Science. - Times Cited Web of Science®: 1
9	Dieks, D & Vermaas, P. (1998). The modal interpretation of quantum mechanics - Introduction. In Modal Interpretation of Quantum Mechanics.

• Conferences/Workshops and Talks

- Publication in conference proceedings

1	Eloy, S. & Vermaas, P. (2023). Social validation of multidisciplinary design in ICT and architecture. In CLMPST-2023: 17th CLMPST: Science and Values in an Uncertain World, Book of Abstracts. (pp. 372-372). Buenos Aires: CLMPST.
2	Eloy, S., Raposo, M., Costa, F. & Vermaas, P. E. (2021). Tools for the co-designing of housing transformations: A study on interaction and visualization modes. In Eloy, S., Viana, D. L., Morais, F., & Vaz, J. V. (Ed.), Formal Methods in Architecture. Advances in Science, Technology & Innovation. (pp. 91-100). Lisboa: Springer. - Times Cited Google Scholar: 5
3	Eloy, S., Raposo, M., Costa, F. & Vermaas, P. (2021). Mychanges: Tools for the co-designing of housing transformations. In 2021 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW), Proceedings. (pp. 765-765). online: IEEE.
4	Eloy, S., Dias, M. A. & Vermaas, P. E. (2018). User-centered shape grammars for housing transformations: towards post-handover grammars. In XXII Congresso Internacional da Sociedade Iberoamericana de Gráfica Digital. São Paulo: Universidade de São Paulo. - Times Cited Google Scholar: 9
5	Eloy, S. & Vermaas, P. (2017). Over-the-counter housing design: the city when the gap between architects and laypersons narrows. In SPT 2017: The Grammar of Things.
6	Vermaas, P. & Eloy, S. (2017). Grammar and quality: Assessing the design quality of grammar-system generated architecture. In Proceedings of the SPT 2017: The grammar of things. (pp. 68-69). Darmstadt: Society for Philosophy and Technology (SPT).
7	Vermaas, P. & Eloy, S. (2016). Taming the Inhabitants' Lions: Architectural responses to the personalisation of housing. In ISPA online proceedings. Bamberg

8	Eloy, S. & Vermaas, P. (2014). Towards effective city rejuvenation with ICT: Web-based shape grammar supported refurbishment design. In Khaldoun Zreik (Ed.), EuroplA 14: Architecture, City and Information Design, 14th International conference on advances in design sciences and technology, Proceedings. Nice: Europia Productions. - Times Cited Google Scholar: 2
9	Eloy, S., Vermaas, P., Sara Eloy & Vermaas, P. (2013). Do generative design systems may create architecture? Assessing architectural design computer tools. In Proceeding of the 18th International Conference of the Society for Philosophy and Technology. Lisboa

- Talk

1	Eloy, S. & Vermaas, P. (2023). Social validation of multidisciplinary design in ICT and Architecture. 17th International Congress of Logic, Methodology and Philosophy of Science.
2	Eloy, S., Raposo, M., Costa, F. & Vermaas, P. (2020). Tools for the Co-designing of Housing Transformations: A Study on Interaction and Visualization Modes. 5th Symposium Formal Methods in Architecture.
3	Eloy, S. & Vermaas, P. (2019). Design for values in architecture: the question of trade-offs. SPT 2019.
4	Vermaas, P. (2018). Architects design life. Aulas abertas Projeto Final de Arquitetura, Mestrado Integrado em Arquitetura.
5	Dias, M. A. , Eloy, S. & Vermaas, P. (2018). User-centered shape grammar for housing transformations: towards post-handover grammars. XXII Congresso Internacional da Sociedade Iberoamericana de Gráfica Digital.
6	Vermaas, P. & Eloy, S. (2017). Design for values in the city: exploring shape grammar systems. Philosophy of the City Conference 2017.
7	Vermaas, P. & Eloy, S. (2017). Grammar and Quality: Assessing the Design Quality of Grammar-System Generated Architecture. Proceedings of the SPT 2017: The Grammar of Things.
8	Eloy, S. & Vermaas, P. (2017). Over-the-counter housing design: the city when the gap between architects and laypersons narrows. SPT 2017: The Grammar of Things.
9	Vermaas, P. & Eloy, S. (2016). Taming the Inhabitants' Lions: Architectural responses to the personalisation of housing. ISPA online proceedings.
10	Eloy, S. & Vermaas, P. (2014). Towards Effective City Rejuvenation with ICT: web-based shape grammar supported refurbishment design. Architecture, City & Information Design (EuropIA.14, 14th International Conference on Design Sciences & Technology).
11	Eloy, S. & Vermaas, P. (2013). Do generative design systems may create architecture? Assessing architectural design computer tools. 18th International Conference of the Society for Philosophy and Technology.

• Other Publications

- Other publications

1	Eloy, S. & Vermaas, P. (2019). Design for values in architecture: the question of trade-offs. Book of abstracts SPT 2019.

2	Vermaas, P. & Eloy, S. (2017). Design for values in the city: exploring shape grammar systems. Philosophy of the City conference.
3	Vermaas, P. (2017). The societal impact of the emerging quantum technologies: a renewed urgency to make quantum theory understandable. Ethics and Information Technology. 19 (4), 241-246 - Times Cited Web of Science®: 43 - Times Cited Scopus: 48
4	Vermaas, P. & Eckert, C. (2013). My functional description is better!. Artificial Intelligence for Engineering Design, Analysis and Manufacturing. 27 (3), 187-190 - Times Cited Web of Science®: 31 - Times Cited Scopus: 35

Research Projects

Project Title	Role in Project	Partners	Period
Transformation Grammars	Researcher	ISTAR-Iscte (DLS), Ghent - (Belgium), Delft - (Netherlands)	2017 - 2018