



**Georg
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Georg Vrachliotis graduated from the School of Architecture, Media and Design at the Berlin University of Arts. Georg studied also at the Institute of Philosophy, Theory of Science and History of Science and Technology, at the Technical University Berlin, but completed his diploma degree in architecture. As an architect Georg gained working experience in various architectural offices. To establish his interest in linking architecture to theory and history of science and technology, he has been visiting researcher at the University of Bremen, the University of Freiburg, and the University of California at Berkeley.

Georg received several research fellowships, conference scholarships and travel grants, e.g. from the Stanford University Spring Symposium or the ETH Erich-Degen Foundation. Since 2003 Georg holds a position as a research associate and teaching assistant at the Chair for Computer-Aided Architectural Design ETH Zurich. Since 2006 he holds a position as a guest lecturer at the Department for Architecture Theory, Prof. Kari Jormakka, Technical University Vienna.

In 2007 he founded together with Oliver Schürer (TU Vienna) the research cooperation *Technik und Theorie der Architektur*. Together with Andrea Gleiniger (ZHdK) he is the editor of the Birkhäuser book series *Kontext Architektur*. Georg is working on architecture theory, and history and theory of technology and science in architecture, currently on "Architecture, Cybernetics and the expansion of technical thinking".

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Books (edited)

Muster. Ornament, Struktur und Verhalten. In der Reihe: Kontext Architektur -

Architektonische Grundbegriffe zwischen Kunst, Wissenschaft und Technologie, Birkhaeuser Verlag, Basel, Oktober 2008.

Pattern. Ornament, Structure and Behaviour. In the book series: Context Architecture - Architectural Concepts in Art, Science and Technology, Birkhaeuser Verlag, Basel, October 2008.

Simulation. Präsentationswerkzeug und Erkenntnisinstrument. In der Reihe: Kontext Architektur - Architektonische Grundbegriffe zwischen Kunst, Wissenschaft und Technologie, Birkhaeuser Verlag, Basel, Juni 2008. >>

Simulation. Presentation Technique and Cognitive Method. In the book series: Context Architecture - Architectural Concepts in Art, Science and Technology, Birkhaeuser Verlag, Basel, June 2008. >>

Komplexität. Entwurfsstrategie und Weltbild. In der Reihe: Kontext Architektur - Architektonische Grundbegriffe zwischen Kunst, Wissenschaft und Technologie, Birkhaeuser Verlag, Basel, Juni 2008.>>

Complexity. Design Strategy and World View. Volume 2, Book series: Context Architecture - Architectural Concepts in Art, Science and Technology, Birkhaeuser Verlag, Basel, Juni, 2008. >>

Book chapters and essays

Vrachliotis, G. (2008). Flussers Sprung. Simulation und technisches Denken in der Architektur. In: Gleiniger, A. und Vrachliotis, G. (Hrsg.), Simulation. Präsentationswerkzeug und Erkenntnisinstrument. In der Reihe: Kontext Architektur - Architektonische Grundbegriffe zwischen Kunst, Wissenschaft und Technologie, Birkhaeuser Verlag, Basel.

Vrachliotis, G. (2008). Poppers Mückenschwarm. Architektur, Kybernetik und die Operationalität von Komplexität. In: Gleiniger, A. und Vrachliotis, G. (Hrsg.). Komplexität. Entwurfsstrategie und Weltbild. In der Reihe: Kontext Architektur - Architektonische Grundbegriffe zwischen Kunst, Wissenschaft und Technologie, Birkhaeuser Verlag, Basel.

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Vrachliotis, G. (2007). Game of Life - Architecture, Complexity, and the Idea of Nature as a Game. in: von Borries, F., Walz, S.P. Brinkman, U., Böttger, M., Space, Time, Play. Games, Architecture, and Urbanism, Birkhäuser Verlag.

Vrachliotis, G. (2008). Urbane Perspektiven. (Book review: Stadt als Perspektive. Zur Konstruktion urbaner Räume. Eds. Timon Beyes, Holm Keller, Daniel Libeskind), Hatje Cantz Verlag, Arch+, Journal for Architecture and Urban Planning, Aachen.

Vrachliotis, G., (to appear 2008). Die konstruierte Welt: Ein architektonischer Blick auf Entwicklungen des Raumbegriffs in Kognitions- und Computerwissenschaften, Arch+, Journal for Architecture and Urban Planning, Aachen.

Bertel, S., Vrachliotis, G., Freksa, C. (2007), Aspect-based building design - Specifications for Computer-Aided approaches of spatial constraint solving. in:

(Ed.) Allen, G. Applied Spatial Cognition, Lawrence Earlbaum Publisher.

Vrachliotis, G. & Scheurer, F. (2006). Theory and application of biological inspired Computer-Aided Architectural Design, Game-Set-Match: On Computer Games, Advanced Geometries and Digital Technologies, Episode Publishers.

Vrachliotis, G., (2006). Raum und Vorstellung von Raum (Book review: Imaginäre Architekturen Raum und Stadt als Vorstellung. Eds. Geiger, Hennecke, Kempf) Arch+, No 177, Journal for Architecture and Urban Planning, Aachen.

Hölscher, C., Meilinger, T., Vrachliotis, G., Brösamle, M., & Knauff, M. (2004). 'Finding the Way Inside: Linking Architectural Design Analysis and Cognitive Processes', International Conference Spatial Cognition 2004, Chiemsee. In: Lecture Notes in Artificial Intelligence, Springer, Berlin.

Bertel, S., Freksa, C., & Vrachliotis, G., (2004). 'Aspectualize and Conquer in Architectural Design', in: Proceedings of the 3rd International Conference Visual and Spatial Reasoning in Design at MIT, Cambridge. In: J. Gero, B. Tversky, & T. Knight (Eds.), Visual and Spatial Reasoning in Design III, Key Centre of Design Computing and Cognition, Sydney.

Vrachliotis, G., (2004). 'Articulating Space through Architectural Diagrams', Workshop contribution for Reasoning with Mental and External Diagrams: Computational Modeling and Spatial Assistance, Spring Symposium of the American Association for Artificial Intelligence at Stanford University, California.

Freksa, C., Vrachliotis, G., Bertel, S., (2004). 'Mental Conceptions of Emergent Spaces in Architectural Design', In: C. Freksa, G. Vrachliotis, & S. Bertel (Eds.), DCC-Workshop Reader, First International Conference on Design, Computation and Cognition at MIT, Cambridge.

Vrachliotis, G., (2004). 'Kognitive Topologien', Arch+, No 171, Journal for Architecture and Urban Planning, Arch+ Verlag, Aachen.

Vrachliotis, G., (2004). 'Ist Denken Bauen', Conference review Intelligente Architektur, Journal for Architecture and Technology, Koch Verlag, Stuttgart.

Teaching

2008 Spring: Architektur und Kybernetik (with Oliver Schürer). \ Technik und Zivilisation, Institut für Architekturtheorie, Technical University Vienna.

2007 Fall: Raumfahrt und Revolution, Part 2 (with Oliver Schürer). Technik und Zivilisation, Institut für Architekturtheorie, Technical University Vienna.

2007 Fall: Zur Epoche von Architektur, Infrastruktur und Elektronengehirne. \ Wahlfach Architekturtheorie, Institut für Architekturtheorie, Technical University Vienna.

2007 Spring: Raumfahrt und Revolution, Part 1 (with Oliver Schürer). Technik und Zivilisation, Institut für Architekturtheorie, Technical University Vienna.

2007 Spring: Die Systematisierung der Wirklichkeit. Technisches Denken in den 1960er Jahren. Wahlfach Architekturtheorie, Institut für Architekturtheorie,

Technical University Vienna.

2007 Spring: Denken in Systemen.
Diplomwahlfach, Technik und Theorie, CAAD, ETH Zurich

2006/2007 Fall: Von der Utopie zur Strategie.
Diplomwahlfach, Technik und Theorie, CAAD, ETH Zurich

2006 Spring: Cityscan Belgrad (Exkursion)
Diplomwahlfach, CAAD Theory, ETH Zurich

2005/2006 Fall: Was ist räumliche Intelligenz?
Bachelor/Diplomwahlfach, CAAD Theory, ETH Zurich

2005 Spring: Cognitive Concepts of Space. A project in collaboration with the
Chair for Urban Design, Prof. Kees Christiaanse, CAAD Theory/Urban Design,
ETH Zurich

2002/2003 Fall: Modell und Wirklichkeit (with Christin Kempf)
College of Architecture, Media and Design, University of Arts Berlin

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