THOMAS FISCHER 费道闻 PhD, PhD, FDRS

PERSONAL INFORMATION

	Born in Germany, 1972
citizenship	German, permanent HK resident, China resident
family	married, two children
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SUMMARY

Award-winning design educator, design researcher and cyberneticist investigating human creativity and machine logic through practice and through philosophical reflection.

ACADEMIC EXPERIENCE

Xi'an Jiaotong-Liverpool University

2011–present   Associate Professor, XJTLU — China
Founding member of, and Associate Professor at the Department of Architecture. Acting Head of Department of Architecture 2011-2013, Founding Director of XJTLU's Design Research Institute since September 2013.

National Cheng Kung University

2010–2011   Visiting Associate Professor, NCKU — Taiwan
Visiting Associate Professor at College of Planning and Design. Research as well as teaching and curriculum development at Masters and PhD level.

School for Designing a Society

Nov 2008   Artist in Residence, SDaS — USA
Artist in Residence at the School for Designing a Society. Conducted creativity workshop and introductory lectures/discussions on cybernetics.

Shenzhen University

Sep–Oct 2008   Visiting Professor, SZU — China
Visiting Professor at The College of Architecture and Urban Planning. Delivered creative innovation workshop and related lectures/discussions.

The Hong Kong Polytechnic University

1999–2010   Assistant Professor, SD PolyU — Hong Kong
Research Associate (1999-2001), Lecturer (2001–2008), Assistant Professor and Industrial and Product Design Discipline Leader (2008-2010) at the School of Design. Research and teaching in Industrial and Product Design, Environmental Design and Interactive Systems Design. Departmental IT development, curriculum planning and teaching at undergraduate, Masters and PhD level.

Deakin University

Apr–Sep 1999   Visiting Scholar, DEAKIN UNI — Australia
Visiting Scholar. Metadata specification for Construction Primer online learning database, educational software prototyping.

EDUCATION

PhD in Architecture and Design

2002–2008   Royal Melbourne Inst. of Tech. — Australia
Spatial Information Architecture Laboratory
Thesis: *Designing (tools (for designing (tools (for ...))))*
Description: Second-order cybernetic reflection on the design process in the context of advanced architectural space frame geometry.
Advisors: Prof. Mark BURRY, Prof. John FRAZER & Prof. Ranulph GLANVILLE

PhD in Education	**1997-2001** University of Kassel, Germany
	Department of Education (FB1)
	Thesis: *Eine Mustersprache für das Design von Autorensystemen*
	Description: Development of and application report for a pattern language for educational authoring system design.
	Advisors: Prof. Wilhelm Sanke & Prof. Hans Dehlinger
Master of Education equivalent	**1992-1996** University of Kassel, Germany
	Department of Education (FB1)
	Thesis: *Hypertext: Strukturen und Didaktisches Potenzial*
	Description: Literature review and discussion of hypertext theory and the educational potential of hypertext. Leading to the degree "Erstes Staatsexamen für das Lehramt an Gymnasien"
	Advisor: Prof. Wilhelm Sanke

MEMBERSHIPS

ASC	American Society for Cybernetics – Lifetime Member
DRS	Design Research Society – Fellow
CAADRIA	Computer-Aided Architectural Design Research in Asia – Member
ASA	Architectural Science Association – Member
IEEE	The Institute of Electrical and Electronics Engineers – Member
ISSS	International Society for the Systems Sciences – Member
HKDA	Hong Kong Designers Association – Member
CCC	Chaos Computer Club – Member

SERVICE

Exec Board Membership	Executive board member (secretary) of the American Society for Cybernetics since 2009.
Conference Organisation	Conference co-organiser of the annual conferences of the American Society for Cybernetics (ASC) in 2010, 2011, 2012, 2013 and 2014 as well as of the annual conference of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) in 2010.
Editing	First editor of the *Proceedings of the 17th International Conference on Computer Aided Architectural Design Research in Asia* in 2012, as well as of Volume 5, Issue 4 and Volume 10, Issue 4 of the *International Journal of Architectural Computing*.
Editorial Board Membership	Editorial board member of the *International Journal of Architectural Computing* since 2012.
Postgraduate Consortium Coordination	Postgraduate Consortium Co-Chair of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) 2008-2012. Invited panelist 2014.
University Administration	Industrial and Product Design Discipline Leader at the School of Design at The Hong Kong Polytechnic University 2008-2010, Acting Head of the XJTLU Department of Architecture 2011-2013, Director of the XJTLU Design Research Institute since 2013. Chairmanship and membership in various univerity and departmental committees and work groups. Developed and/or revised 10+ design-related curricula at undergraduate and postgraduate levels. Leadership and participation in various academic outreach, recruitment and promotion activities.

AWARDS

Oct 2013	Winner of the 2013-2013 Annual XJTLU Teaching Prize for Innovative Teaching Practices as leader of a team conducting an exercise on Architectural Typograms.
Jul 2013	Best Paper Award of the journal *Kybernetes* for the paper *Enigmatic Mechanisms in Defense of the Capability to Have New Ideas*.
Dec 2011	Named Long-Term Leading Talent in Jinji Lake Double Hundred Talents award programme (5-year reward).
Aug 2011	Warren McCulloch Award of the American Society for Cybernetics.
Oct 2008	Named Fellow of the Design Research Society.
2007	Outstanding Professional Services and Innovation Award by The Hong Kong Polytechnic University and Institute for Enterprise together with my PhD student Wing C. Lau.
2006	Outstanding Professional Services and Innovation Award by The Hong Kong Polytechnic University and Institute for Enterprise.
Nov 2005	Faculty Team Award. Faculty of Communication, The Hong Hong Polytechnic University. With other contributors for the book *Hong Kong – Better by Design*.
Apr 2002	Best Presentation Award. 2002 conference of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) at the Multimedia University, Malaysia.
Apr 2002	Best Paper Award. 2002 conference of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) at the Multimedia University, Malaysia.

STUDENTS' AWARDS

Flying Cloud 2014	I supervised 2nd-year BEng Industrial Design students Hu Xiaoyi, Gao Tongwei, He Lei, and Mao Xinyi designing their project *Hello China*, for which they have won the 2014 云彩飞 ("Flying Cloud") Innovation and Entrepreneurship competition organised by the Suzhou Industrial Park Science and Technology Development Association and the Suzhou Industrial Park Cloud Computing Industry Association. The award includes a grant of RMB300,000 for the commercial development of the project.
IDEERS 2014	I co-supervised 3rd-year students Liao Longtai, You Jie, Xie Minghuan and Wang Weiping designing *Smooth Tower*, which won the the First Prize in Most Creative Structural (Engineering) Design, the First Prize in Most Creative Architectural (Art) Design, an Earthquake Safety Certificate and a runner-up position for the Most Preferable (public choice) Award in the undergraduate category of the IDEERS2014 Earthquake Engineering Research Competition.
IDEERS 2013	I co-supervised 3rd-year students Li Jiehan, Li Yirong, Gu Mengxue and Cai Xinting designing *Woven Tower*, which won the the First Prize in Most Creative Structural (Engineering) Design, the Second Prize in Most Creative Architectural (Art) Design, and the Most Preferable (public choice) Award in the undergraduate category of the IDEERS2013 Earthquake Engineering Research Competition, and Zhu Haoruo, Wang Siyao, Nan Fang and Xiong Henan who won an Earthquake Safety Certificate with *Interwoven Tower* in the same competition and category.

IDEERS 2010	I supervised students Andi Barlianto, Ayusta Panjaya, Ricky Priambodo and Yeddid Yonatan E.D. designing *Nano Tower*, which won the Most Creative Structural Design Engineering Award in the postgraduate category of the IDEERS2010 Earthquake Engineering Research Competition.
SDAA, COW/2009	My final-year BA(Hons) in Industrial and product Design student Cheung Wai Chun Kevin won the 2009 SDAA outstanding graduate award as well as the COW/2009 International Design Festival's 2nd prize (Product Design) for his project *Shellody*.
IDHK	My final-year BA(Hons) in Industrial and product Design student Mak Wing Shan Angel won a 2007 scholarship from the Industrial Designers Society of Hong Kong for her project *ButtonFree*.
Sony Design Award	My 2nd-year BA(Hons) in Industrial and Product Design student Law Ka Yee Winnie won an a placement in the Sony Student Design Workshop in 2006 in Shanghai, then has won the Sony Design Award for Best Family Unification Product and had her project titled *Family Photo Sharing Set* exhibited on the 2006 Shanghai Design Biennial.
Red Dot Award, DesignSmart	My final-year BA(Hons) in Industrial and product Design student Tsang Ka Ki Monica won the Red Dot Award 2006 for high design quality as well as the DesignSmart Young Design Talent Award 2007 with her tableware design *Plate Tectonics*.

PATENTS AND PRODUCT LICENCE AGREEMENTS

Jun 2008	License agreement with Technical (HK) Manufacturing Ltd. via PolyU Technology & Consultancy Company Ltd. *Rotoroast* together with Mak student Wing Shan.
Oct 2007	License agreement with Well Group Enterprise Ltd. via PolyU Technology & Consultancy Company Ltd. *Truckloads of Knowledge* together with student Chan Wing Chi.
May 2006	Hong Kong patent, 16 May 2006, validity 8 years) *Device for Interpreting Manual Symbol Input using Manual Display Element Interaction* together with PhD student Wing C. Lau. Patent number HK1084827.
Mar 2006	Hong Kong patent, 16 March 2006, validity 8 years) *Digital Timing Device and Method for Setting or Adjusting the Timing Device* together with PhD student Wing C. Lau. Patent number HK1083431.

RESEARCH AND PROJECT FUNDS

16 Jun 2014 – 31 Aug 2014	XJTLU Summer Research Fellowship (SURF), "Weaving Code", primary investigator, RMB9,000.
31 May 2012 – 31 May 2013	XJTLU Research Development Fund, project code RDF-11-02-12 "Perceptions of Leading and of Being Led in Design Conversations", primary investigator, RMB27,000.
15 Sep 2007 – 14 Mar 2009	HK PolyU School of Design RGC Internal Competitive Research Grant, project code A-PH34 "Design Education Knowledge as Community Property: Design of a Sharing Resource", primary investigator, HK$95,240.
31 Jul 2006 – 31 Jul 2007	PolyU PhD scholarship (staff development programme) in support of PhD studies at RMIT, Australia, HK$100,000.

3 May 2005 – *27 Feb 2009*	HK PolyU Internal Competitive Research Grant, project code G-YC48 "Applying Haptic Programming in Product Design", primary investigator, HK$178,500.
1 Nov 2004 – *31 Mar 2006*	HK PolyU Faculty of Communication, Dean's Reserve, project code 1-ZV12 "Ergonomics and Usability in Keyboard Design", co-investigator, HK$53,500.
1 Aug 2002 – *31 Jul 2005*	HK RGC General Research Fund, project code B-Q628 "Designing and Applying Second Generation Machine-Readable Models", primary investigator, HK$433,404.
1 Nov 2001 – *30 Apr 2002*	HK PolyU School of Design Departmental General Research Fund, project code G-T448 "Investigation of Strategies to Explain Gaudí's Double Helix Columns Using Machine-Readable Models", primary investigator, HK$58,910.
15 Apr 2000 – *10 Sep 2004*	HK PolyU Internal Competitive Research Grant, project code G-YC48 "The Graphical User Interface in Virtual Reality - A Study on Immersive Navigation Systems", co-investigator, HK$85,000.
1 Mar 2000 – *31 Dec 2004*	HK PolyU School of Design RGC Internal Competitive Research Grant, project code A-PB84 "Distributed and Autonomous Intelligent Agents in Physical and Virtual Environments", primary investigator, HK$180,000.
31 Jan 2000 – *31 Jan 2002*	HK PolyU Earmarked Provision for Special Purposes, "DMAN: Digital Media Access network", project leader, HK$7,000,000 plus annual service and maintenance budgets.

EDITING AND CURATING

Shared Territories	*Nov 2014* Shared Territories Peer-reviewed Design Research Exhibition on the XJTLU campus is Suzhou, China Curators: Anuradha CHATTERJEE, Marian MACKEN and Thomas FISCHER
IJAC	*Oct 2013* International Journal of Architectural Computing Volume 10, Issue 4 Editors: Thomas FISCHER, Wendy FOK and Urvi SETH
CAADRIA	*Apr 2012* CAADRIA 2012 Proceedings Beyond Codes and Pixels. The Proceedings of the 17th International Conference on Computer Aided Architectural Design Research in Asia, Hindustan University, Chennai, India (712 pages) Editors: Thomas FISCHER, Kaustuv DE BISWAS, Jeremy J. HAM, Ryusuke NAKA and Weixin HUANG
IJAC	*Oct 2005* International Journal of Architectural Computing Special Focus Issue on Computational Geometry and Design Exploration Volume 5, Issue 4 Editors: Thomas FISCHER, Tomohiro FUKUDA and Zhou QI

BOOK TRANSLATION

Ricardo B. URIBE, 1991: *Tractatus Paradoxico-Philosophicus. A Philosophical Approach to Education*, Red Edition. From Spanish/English to German. Translator: Thomas FISCHER

Arch. Sci. Rev.	Thomas FISCHER, 2014: Scientific Research into Designing, While Doing Justice to Designing, *Architectural Science Review*, forthcoming.
FoAR	Thomas FISCHER, 2014: Circular Causality and Indeterminism in Machines for Design, *Frontiers of Architectural Research*, in print, DOI: 10.1016/j.foar.2014.06.003.
Leonardo	Thomas FISCHER and Laurence D. RICHARDS, 2014: From Goal-Oriented to Constraint-Oriented Design: The Cybernetic Intersection of Design Theory and Systems Theory, *Leonardo Journal*, DOI: 10.1162/LEON_a_00862, early access at: http://www.mitpressjournals.org/toc/leon/0/ja
Kybernetes	Thomas FISCHER, 2014: Effects of Variety Reduction and Amplification on Recursively Re-Entering Patterns, *Kybernetes*, Volume 43, Issues 9 and 10, pp. 1330–1337, DOI: 10.1108/K-09-2014-0185.
Kybernetes	Thomas FISCHER, 2013: Enigmatic Mechanisms in Defense of the Capability to Have New Ideas, *Kybernetes*, Volume 42, Issues 9 and 10, pp. 1374–1386, DOI: 10.1108/K-10-2012-0070.
JMSS	Christiane M. HERR and Thomas FISCHER, 2013: Systems for Showing and Repurposing: A Second-Order Cybernetic Reflection on some Cellular Automata Projects, *Journal of Mathematics and System Science*, Volume 3, Number 4 (April 2013), pp. 201–216.
C & HK	Thomas FISCHER, 2013: The Roles of Listening and Non-Listening in the Formation of Organizational Hierarchies, *Cybernetics and Human Knowing*, Volume 20, Numbers 1 and 2, pp. 63–72.
ArS	Thomas FISCHER, 2012: Geometry Rationalization for Non-Standard Architecture, *Architecture Science*, Number 5, pp. 25–47.
AMM	Christiane M. HERR and Thomas FISCHER, 2012: Constructing Cardboard Chairs for Children as a Part of Applied Structural Design Education in Architecture, *Applied Mechanics and Materials*, Volumes 174–177, pp. 1604–1610, DOI: 10.4028/www.scientific.net/AMM.174-177.1604.
AMR	Christiane M. HERR, Thomas FISCHER, Steven S. MILLARD and André BROWN, 2012: Form and Formalism: On the Future Role of Structural Design in Architectural Education in China, *Advanced Materials Research*, Volumes 450–451, pp. 257–262, DOI: 10.4028/www.scientific.net/AMR.450-451.257.
Kybernetes	Thomas FISCHER, 2011: When is Analog? When is Digital? *Kybernetes*, Volume 40, Issues 7 and 8, pp. 1004–1014, DOI: 10.1108/03684921111160232.
C & HK	Christiane M. HERR and Thomas FISCHER, 2010: Digital Drifting: Minimally Instructive Education for Tool-Based Creativity in Asia, *Cybernetics and Human Knowing*, Volume 17, Numbers 1 and 2, pp. 37–57.
AutCon	Thomas FISCHER, 2007: Rationalising Bubble Trusses for Batch Production, *Automation in Construction*, Volume 16, Issue 1, pp. 45–53, DOI: 10.1016/j.autcon.2005.10.004.
IJAC	Thomas FISCHER, 2005: Teaching Programming for and with Microcontroller-Enhanced Physical Models, *International Journal of*

	Architectural Computing, Volume 3, Number 1, pp. 57–74, DOI: 10.1260/1478077053739603.
AutCon	Thomas FISCHER, Mark BURRY and John FRAZER 2005: Triangulation of Generative Form for Parametric Design and Rapid Prototyping, *Automation in Construction*, Volume 14, Issue 2, pp. 233–240, DOI: 10.1016/j.autcon.2004.07.004.
WSEAS Trans. Inf. Sci. Appl.	Catherine HU and Thomas FISCHER, 2004: Cultural Perception and Technique as Constraints in Computational Design Evolution: A Case Study of Generative Chinese Typography, *World Scientific and Engineering Academy and Society Transactions on Information Science and Applications*, Issue 1, Volume 1, pp. 292–297.
WSEAS Trans. Sys.	Thomas FISCHER, 2004: Notes on Modeling Evolutionary Directionality, *World Scientific and Engineering Academy and Society Transactions on Systems*, Issue 2, Volume 3, pp. 579–583.
IJDC	Thomas FISCHER and Torben FISCHER, 2003: Toolmaking for Digital Morphogenesis, *International Journal of Design Computing*, Volume 6.
AutCon	Thomas FISCHER, Christiane M. HERR, Mark BURRY and John FRAZER, 2003: Tangible Interfaces to Explain Gaudí's Use of Ruled-Surface Geometries, *Automation in Construction*, Volume 12, Issue 5, pp. 467–471, DOI: DOI: 10.1016/S0926-5805(03)00031-1.
Jour. Guizhou Univ. Tech.	Philip WONG and Thomas FISCHER, 2002: Object-Oriented Clusters. A Proposal for a New Parallel Processing Paradigm, *Journal of Guizhou University of Technology*, Volume 31, Number 4, pp. 27–32.

NON-REFEREED JOURNAL PUBLICATIONS

Patterns	Thomas FISCHER, 2008: Onion Rings You Cannot See and a Theremin I Cannot Play, *Patterns*, Fall 2008.
Harvard Asia Pacific Review	Peter DEAN and Thomas FISCHER, 2008: Toy Safety or Toying with Safety? A Diplomacy of Pointing Fingers and Saving Face in the Name of the Consumer Protection, *Harvard Asia Pacific Review*, Volume 9, Issue 2, pp. 35–37.

BOOK CHAPTERS

Critical Concepts in Architecture	Thomas FISCHER, 2014: The Interdependence of Linear and Circular Causality in CAAD Research: A Unified Model, in: Mark BURRY (ed.), *Critical Concepts in Architecture: Digital Architecture*, Routledge, London, 2014, (to be released on 10-Mar-2015).
Trojan Horses	Thomas FISCHER, Christiane M. HERR and Timothy JACHNA, 2012: Pipe-Dreams of the Abstract and the Concrete (i.e. of the General and the Particular), in: Ranulph GLANVILLE (ed.), *Trojan Horses. A Rattle Bag from the "Cybernetics: Art, Design, Mathematics — A Meta-Disciplinary Conversation" post-conference workshop*, edition echoraum series, Vienna, 2012, pp. 19–27.
CAAD Talks	Thomas FISCHER and John FRAZER, 2005: Modeling Architecture as Logic States in Space and Time: History and Future of the Universal Constructor (in

English and Chinese), in: Mao-lin CHIU (ed.), *Insights of Smart Environments. CAAD Talks 5*, Archidata, Taipei, pp. 87–104.

*Festschrift
Hans Dehlinger*

Thomas FISCHER, 2004: Und aus Welchem Fachbereich Kommen Sie?, in: Heike RAAP and Philip ZERWECK (eds.), *Die Verbesserung von Mitteleuropa steht nicht mehr auf meinem Plan. Eine Festschrift zur Verabschiedung von Hans Dehlinger*, Books on Demand , Norderstedt, pp. 92–100.

*Hong Hong
Better by Design*

Thomas FISCHER, 2004: Mass Customization and Generative Design, in: Tin Pui LEUNG (ed.), *Kong Kong: Better by Design*, The Hong Kong Polytechnic University, Hong Kong, pp. 119–130.

*Navigating
Design*

Thomas FISCHER and Catherine HU, 2003: Designing Interactivity, in: Alice LO (ed.), *Navigating Design. A Voyage of Discovery*, The Hong Kong Polytechnic University with Hong Kong Arts Development Council, Hong Kong, pp. 446–455.

*Navigating
Design*

Thomas FISCHER: Listening to Design. Learning from the Music Industry, in: Alice LO (ed.), *Navigating Design. A Voyage of Discovery*, The Hong Kong Polytechnic University with Hong Kong Arts Development Council, Hong Kong, pp. 370–387.

REFEREED CONFERENCE PUBLICATIONS

*Emerging
Practices 2014*

Thomas FISCHER and Marian MACKEN, 2014: Architectural Typograms in a Cross-Language Architectural Foundations Class, in: Jin MA and Davide FASSI: *Emerging Practices: Design Research and Eduaction Conference 2014*, Tongji University, Shanghai, publication pending.

*21st Century
Wiener*

Thomas FISCHER, 2014: Wiener's Prefiguring of a Cybernetic Design Theory, in: *Proceedings of the IEEE Conference on Norbert Wiener in the 21st Century*, Boston, available online in IEEE Xplore Digital Library, DOI: 10.1109/NORBERT.2014.6893913.

CAADRIA 2014

Christiane M. HERR and Thomas FISCHER, 2014: A Notation to Support Column and Beam Layout Design for Reinforced Concrete Construction in China, in: Ning GU, Shun WATANABE, Halil ERHAN, Matthias Hank HAEUSLER, Weixin Huang, Ricardo SOSA (eds.), *Proceedings of CAADRIA 2014: Rethinking Comprehensive Design: Speculative Counterculture*, Kyoto Institute of Technology, Kyoto, pp. 399–408.

*DesignEd Asia
2013*

Thomas FISCHER and Laurence D. RICHARDS, 2013: From Constrained Design to Designed Constraints to Constraint Reversal, in: Timothy JACHNA, Yan Yan LAM and Sylvia Tzvetanova YUNG (eds.), *Delimitation – Creating with Constraints: Proceedings of the DesignEd Asia Conference 2013*, The Hong Kong Polytechnic University School of Design and Hong Kong Design Institute, Hong Kong, pp. 303–310.

*ASA 2013
(keynote)*

Thomas FISCHER, 2013: Design Research Between Different Research Traditions: A Case Study, in: Marc Aurel SCHNABEL (ed.), *Cutting Edge in Architectural Science: Proceedings of the 47th International Conference of the Architectural Science Association 2013*, The Architectural Science Association and The Chinese University of Hong Kong, Hong Kong, pp. 19–28.

*CAAD Futures
2013*

Christiane M. HERR and Thomas FISCHER, 2013: Generative Column and Beam Layout for Reinforced Concrete Structures in China, in: Jianlong ZHANG and Chengyu SUN (eds.), *Proceedings of CAAD Futures 2013: Global Design and Local Materialization*, CCIS 369, Springer, Heidelberg, pp. 84–95, DOI: 10.1007/978-3-642-38974-0_8.

CAADRIA 2012	Thomas Fischer, 2012: Design Enigma. A Typographical Metaphor for Epistemological Processes, Including Designing, in: Thomas Fischer, Kaustuv De Biswas, Jeremy J. Ham, Ryusuke Naka and Weixin Huang (eds.): *CAADRIA 2012: Beyond codes and Pixels. Proceedings of the 17th International Conference on Computer Aided Architectural Design Research in Asia*, Hindustan University, Chennai, pp. 679–688.
Re-Design Design Education (keynote)	Thomas Fischer, 2012: 自然的概念与概念的本质- 设计教育的反思 (The Concept of Nature and the Nature of Concepts – A Reflection on Design Education), in: Xiangyang Xin (ed.): 范畴、方法和价值观 – 2012 设计教育再设计国际会议讲演录 (*2012 Re-Design Design Education: Scope, Method and Principles – International Conference I*), 江南大学设计学院 (School of Design, Jiangnan University University), Wuxi, pp. 266–276.
ICID 2011	Thomas Fischer and Ranulph Glanville, 2011: Besides Designing to Interact: Interacting to Design, in: *Responsibility and Delight. Proceedings of the 2011 International Conference on Interaction Design*, School of Design, The Hong Kong Polytechnic University, Hong Kong.
ICPD 2011	Hao-Po Hsu and Thomas Fischer, 2011: Retelling the Story of Design: Probing the Reliability of Interviews in Research About Design, in: *Proceedings of the 6th International Conference on Planning and Design: New Perspectives*, National Cheng Kung University, Tainan, pp. 44–52.
CAADRIA 2011	Thomas Fischer, 2011: One-Behind-The-Many Metaphysics and the Myriad Things, in: Christiane M. Herr, Ning Gu, Stanislav Roudavski, Marc A. Schnabel (eds.): *CAADRIA 2011: Circuit Bending, Breaking and Mending: Proceedings of the 16th International Conference on Computer-Aided Architectural Design Research in Asia*, School of Architecture and Built Environment, The University of Newcastle, pp. 605–614.
CAADRIA 2010	Thomas Fischer, 2010: The Interdependence of Linear and Circular Causality in CAAD Research: A Unified Model, in: Bharat Dave, Andrew I-Kang Li, Ning Gu and Hyoung-June Park (eds.): *CAADRIA 2010: New Frontiers, Proceedings of the 15th International Conference on Computer Aided Architectural Design Research in Asia*, School of Architecture and Built Environment, The University of Newcastle, pp. 609–618.
CAADRIA 2009	Thomas Fischer, 2009: Reassessing Rigour, Re-Cycling Research. Towards a Conversation on the Form of Enquiry, in: Teng-Wen Chang, Eric Champion, Sheng-Fen Chien and Shang-Chia Chiou (eds.): *CAADRIA 2009: Proceedings of the 14th International Conference on Computer-Aided Architectural Design Research in Asia*, Department of Digital Media Design, National Yunlin University of Science and Technology, Douliou, pp. 791–795.
CAADRIA 2008	Thomas Fischer, 2008: On the Myths of Observing Designing and of Sharing Design Observations, in: Walaiporn Nakpan, Ekkachai Mahaek, Komson Teeraparbwong and Piyaboon Nilkaew (eds.): *CAADRIA 2008: Proceedings of the 13th International Conference on Computer-Aided Architectural Design Research in Asia*, Pimniyom Press, Chiang Mai, pp. 278–284.
CAAD Futures 2007	Thomas Fischer, 2007: Enablement or Restriction? On Supporting Others in Making (Sense of Things), in: Andy Dong, Andrew Vande Moere and John Gero (eds.): *Computer Aided Architectural Design Futures 2007. Proceedings of the 12th International Conference on CAAD Futures*, Springer, Dordrecht, pp. 585–598.
CAADRIA 2007	Thomas Fischer and Christiane M. Herr, 2007: The Designer as

Toolbreaker? Probing Tool Use in Applied Generative Design, in: Yu Gang, Zhou Qi and Dong Wei (eds.): *CAADRIA 2007: Proceedings of The 12th International Conference on Computer-Aided Architectural Design Research in Asia*, Southeast University Press, Nanjing, pp. 367–375.

ICD 2006
Thomas Fischer and Wing C. Lau, 2006: Marble-Track Music Sequencers for Children, in: Aulikki Hyrskykari (ed.): *ICD 2006: Proceedings of the 5th International Conference for Interaction and Children*, University of Tampere, Tampere, pp.141–144.

CUHC 2005
Christiane M. Herr, Thomas Fischer Hao Feng Wang and Wei Ren, 2005: Demand-Driven Generative Design of Sustainable Housing for China, in: Jin-Yeu Tsou et al. (eds.): *CUHC 2005: Proceedings of the 5th China Urban Housing Conference*, Vol. 2, China Architecture and Building Press, Hong Kong, pp. 703–710.

CAAD Futures 2005
Thomas Fischer, 2005: Generation of Apparently Irregular Truss Structures, in: Bob Martens and André Brown (eds.): *Computer Aided Architectural Design Futures 2005. Proceedings of the 11th International Conference on CAAD Futures*, Springer Verlag, Dordrecht, pp. 219–238.

eCAADe 2004
Thomas Fischer, 2004: Microcontroller-Enhanced Physical Models for Architecture and Product Design, in: Bjarne Rüdiger, Bruno Tournay and Henning Orbak et al. (eds.): *Proceedings of the 22nd eCAADe Conference 2004*, Royal Danish Academy of Fine Arts, Copenhagen, pp. 396–403.

De Identitate 2004
Thomas Fischer and Christiane M. Herr, 2004: Identity Crisis and High-Speed Urbanism. Form and Morphogenetic Process as Generators of Design Identity, in: Celestino Soddu (ed.): *Proceedings of the AsiaLink Seminar De Identitate* (pre-print), Rome, pp. 109–116.

CSCC 2004
Catherine Hu and Thomas Fischer, 2004: Cultural Perception and Technique as Constraints in Computational Design Evolution: A Case Study of Generative Chinese Typography, in: Constantine Manikopoulos et al. (eds.): *Proceedings of the 8th WSEAS International Conference on Computers* (part of the 8th CSCC Multiconference), Athens.

CAADRIA 2004
Christiane M. Herr and Thomas Fischer, 2004: Using Hardware Cellular Automata to Simulate Use in Adaptive Architecture, in: Hyun Soo Lee and Jin Won Choi (eds.): *CAADRIA 2004. Proceedings of the 9th CAADRIA Conference*, Yonsei University Press, Seoul, pp. 815–828.

EC 2004
Thomas Fischer, 2004: Notes on Modeling Evolutionary Directionality, in: Nikos E. Mastorakis and Alberto Borboni (eds.): *Proceedings of the 5th WSEAS International Conference on Evolutionary Computation*, Udine.

GA 2003
Thomas Fischer, 2003: On the Art of Designing Science, in: Celestino Soddu (ed.): *Proceedings of the 6th Conference and Exhibition on Generative Art 2003*, Politechnico di Milano University, Milano, pp. 352–363.

eCAADe 2003
Thomas Fischer, Mark Burry and John Frazer 2003: Triangulation of Generative Form for Parametric Design and Rapid Prototyping, in: Wolfgang Dokonal and Urs Hirschberg (eds.): *Digital Design. Proceedings of the 21st International eCAADe Conference 2003*, Graz University of Technology, Graz, pp. 441–447.

CG 2003
Thomas Fischer, and Torben Fischer 2003: Parametric Voxel Geometry Control for Digital Morphogenesis, in: *Proceedings of the 19th European*

Workshop on Computational Geometry 2003, Institute of Computer Science I, University of Bonn, pp. 35–40.

CAAD Futures 2003   Thomas FISCHER, Mark BURRY and John FRAZER 2003: How to Plant a Subway System, in: Mao-Lin CHIU, Jin-Yeu TSOU, Thomas KVAN, Mitsuo MOROZUMI and Tay-Sheng JENG (eds.): *Proceedings of the 10th International Conference on Computer Aided Architectural Design Futures*, Kluwer Academic Publishers, Dordrecht, pp. 403–412.

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