

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 cybernetician investigating human creativity and machine logic through practice, education and philosophical reflection.

ACADEMIC EXPERIENCE

2011–present Associate Professor, XJTLU — China
Xi'an Jiaotong-Liverpool University 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 2013-2015. Also teaching at the Department of Industrial Design. Open-ended employment contract.

2018–present Visiting Associate Professor,
1999–2010 Assistant Professor, SD POLYU — Hong Kong
The Hong Kong Polytechnic University Research Associate (1999-2001), Lecturer (2001–2008), Assistant Professor and Industrial and Product Design Discipline Leader (2008-2010), Visiting Associate Professor (ongoing) at the School of Design. Research and teaching in Industrial and Product Design, Environmental Design and Interactive Systems Design. Curriculum planning and teaching at undergraduate, Masters and PhD level.

2016–2017 HUMBOLDT UNIVERSITY BERLIN — Germany
Humboldt University Visiting Researcher at the Institute of Musicology and Media Studies at Humboldt University Berlin. Research and undergraduate teaching in media cybernetics.

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

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

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

EDUCATION

- PhD in Architecture and Design* 2002–2008 RMIT University, Australia
Spatial Information Architecture Laboratory
Thesis: *Designing (tools (for designing (tools (for ...))))*
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*
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*
Leading to the degree “Erstes Staatsexamen für das Lehramt an Gymnasien”
Advisor: Prof. Wilhelm SANKE

MEMBERSHIPS

- ASC* American Society for Cybernetics – Vice President (Electronic Publishing)
- DRS* Design Research Society – Fellow
- CAADRRIA* 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

RESEARCH AND PROJECT GRANTS

- 20 Jun 2016 – 26 Aug 2016* XJTU Summer Undergraduate Research Fellowship (SURF) project “Challenges to the Adoption of BIM in Chinese Architecture, Engineering and Construction”, co-investigator, RMB11,500.
- 13 Jun 2015 – 28 Aug 2015* XJTU Summer Undergraduate Research Fellowship (SURF) project “Online Parametric Customisation of 3DPrinted Buildings”, co-investigator, RMB9,500.
- 01 Jan 2014 – 31 Oct 2014* Design Research Institute special budget for “Design Research: Shared Territories” Exhibition, together with Marian Macken and Anuradha Chatterjee, RMB55,000.
- 01 May 2015 – 31 Mar 2017* XJTU Research Development Fund, project code RDF-14-02-41 “Perceptions of Creative Direction-Giving in Design Teams”, primary investigator, RMB89,000.
- 16 Jun 2014 – 31 Aug 2014* XJTU Summer Undergraduate Research Fellowship (SURF) project “Weaving Code”, primary investigator, RMB9,000.
- 31 May 2012 – 31 May 2013* XJTU 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.
Apr 2000	Graduiertenförderung des Landes Hessen, University of Kassel (Germany), EUR1,000.
01 Apr 1999 – 30 Sep 1999	Deakin University (Australia), Visiting Scholar Allowance, AUD3,000.

SERVICE

<i>Exec Board Membership</i>	Executive board member of the American Society for Cybernetics since 2009, currently in the role of Vice President for Electronic Publishing (Secretary between 2009 and 2014).
<i>Conference Organisation</i>	Conference co-organiser of the annual conferences of the American Society for Cybernetics in 2010, 2011, 2012, 2013, 2014, 2016 and 2017, as well as of the annual conferences of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) in 2010 and in 2017.
<i>Editing</i>	First editor of the <i>Proceedings of the 17th International Conference on Computer Aided Architectural Design Research in Asia</i> in 2012, of Volume 5, Issue 4 and Volume 10, Issue 4 of the <i>International Journal of Architectural Computing</i> , as well as of Volume 31, Issue 1 of <i>Cybernetics and Human Knowing</i> .
<i>Editorial Board Membership</i>	Editorial board member of the <i>International Journal of Architectural Computing</i> 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 university 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

Dec 2015

Outstanding Research Paper Award at the 8th Suzhou Academic Conference on Social Science (苏州市哲学社会科学界第八届学术大会征文) of the Suzhou Association of Philosophy and Social Science(苏州市哲学社科联合会): Third Prize for paper titled 参与, 而非保护 - 传统工艺的计算学方法 (Participation, not Conservation. A Computing Approach to Traditional Craft).

Apr 2015

Recipient of the 2014-2015 Inspiring XJTLU Person of the Year Award together with Christiane M. Herr, by students' popular vote.

Oct 2013

Winner of the 2013-2014 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 Kong 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

- IDEERS
2015* I co-supervised 3rd-year students Li Shaokang, Qian Shiyu, Yang Shihao and Zhang Xu as well as their support team Shao Fuwei, Li Jiayu, Du Hanxi and Shen Xiaoya designing *Stronger Together*. It won the the First Prize in Structural (Engineering) Design, the Most Preferable (public choice) Award, and a nomination (top six out of 42 competing teams) for Most Creative Architectural (Art) Design, as well as an Earthquake Safety Certificate in the undergraduate category of the IDEERS2015 Earthquake Engineering Research Competition.
- Flying Cloud
2014* My 2nd-year BEng Industrial Design students Hu Xiaoyi, Gao Tongwei, He Lei, and Mao Xinyi designed *Hello China*, which 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 included RMB300,000 for the commercial development of the project.
- XJTU
2014* My 2nd year undergraduate students Enbo Hu, Yifeng Zou, Jiajie Xiao, Min Wu, Yuexuan Wu, Zihang Dan won an Honorable Mention at XJTU Sixth Innovative Entrepreneurship Competition for their project *Gadget Radar*.
- 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, where she has won the Sony Design Award for Best Family Unification Product. Her project titled *Family Photo Sharing Set* was 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 student Mak 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.

EDITING AND CURATING

- Springer* *Jan 2018* Springer: Design Research Foundations
Design Cybernetics. Navigating the New (≈ 350 pp.)
Editors: Thomas FISCHER and Christiane M. HERR, forthcoming
- C&HK* *Mar 2016* Cybernetics & Human Knowing
50th Anniversary Retrospective of the ASC (special issue) Volume 23, Issue 1
Editors: Christiane M. HERR, Thomas FISCHER and Ranulph GLANVILLE
- Shared Territories* *Nov 2014* Shared Territories
Peer-reviewed Design Research Exhibition at XJTTLU in 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

BOOKS

- DeGruyter* *Feb 2018* DeGruyter Studium
Medientechnisches Wissen Band 2: Logik, Informationstheorie, Kybernetik (≈ 300 pp.)
Authors: Stefan HÖLTGEN, Thomas FISCHER, Thorsten SCHÖLER and Johannes MAIBAUM, forthcoming

BOOK TRANSLATION

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

REFEREED JOURNAL PUBLICATIONS

- Kybernetes* Thomas FISCHER, 2017: A Cybernetic Perspective on Determinability and Design Research, *Kybernetes*, Volume 46, forthcoming.
- Leonardo* Thomas FISCHER and Laurence D. RICHARDS, 2017: From Goal-Oriented to Constraint-Oriented Design: The Cybernetic Intersection of Design Theory and Systems Theory, *Leonardo Journal*, Volume 50, Issue 1, pp. 36–41, DOI: 10.1162/LEON_a_00862.
- C & HK* Thomas FISCHER, 2016: In Ranulph’s Terms, *Cybernetics and Human Knowing*, Volume 21, Number 1, pp. 87–97.
- IEEE Tech. & Soc.* Thomas FISCHER, 2015: Wiener’s Prefiguring of a Cybernetic Design Theory, *IEEE Technology and Society Magazine*, Volume 34, Number 3, pp. 52–59, DOI: 10.1109/MTS.2015.2461172.
- C & HK* Thomas FISCHER, 2015: Designing Together, *Cybernetics and Human Knowing*, Volume 22, Numbers 2 and 3, pp. 131–144.
- Kybernetes* Thomas FISCHER, 2015: Blind Spots Obscuring Circular Causality in Design and Elsewhere, *Kybernetes*, Volume 44, Issues 8 and 9, pp. 1233–1239, DOI: 10.1108/K-11-2014-0267.
- Arch. Science Review* Thomas FISCHER, 2014: Scientific Research into Designing, While Doing Justice to Designing, *Architectural Science Review*, Volume 57, Issue 4, pp. 240–248, open access, DOI: 10.1080/00038628.2014.958128.
- FoAR* Thomas FISCHER, 2014: Circular Causality and Indeterminism in Machines for Design, *Frontiers of Architectural Research*, Volume 3, Issue 4, pp. 368–375, open access, DOI: 10.1016/j.foar.2014.06.003.
- 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, open access, DOI:10.17265/2159-5291/2013.04.007.
- 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

- GRKG* Thomas FISCHER, 2016: Norbert Wiener's Antizipation einer Kybernetischen Designtheorie, *Grundlagenstudien aus Kybernetik und Geisteswissenschaften*, Band 57, Heft 4, 240–253.
- 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

- Design Cybernetics* Thomas FISCHER, 2018: From “Failure is Not an Option” to “Fail. Fail Again. Fail Better.”, in: Thomas FISCHER and Christiane M. HERR (eds.), *Design Cybernetics. Navigating the New*, Springer (Design Research Foundations), London, forthcoming.
- Medientechnisches Wissen* Thomas FISCHER, 2018: Kybernetik für Medienwissenschaftler, in: Stefan HÖLTGEN, Thomas FISCHER, Thorsten SCHÖLER and Johannes MAIBAUM (eds.), *Medientechnisches Wissen Band 2: Programmierung, Kybernetik, Informatik*, DeGruyter, Oldenburg, forthcoming.
- London and the 1960s* Thomas FISCHER, 2016: Defaceable System MK 4 and Brent Shopping Yr 3, in: Marianne ERTL, Werner KORN and Albert MÜLLER (eds.), *Ranulph Glanville. Art Architecture Cybernetics Design. London and the 1960s*, Edition Echoraum, Vienna, pp. 63–70.
- Architecture of Ideas* Thomas FISCHER, 2016: Tracks Left by a Walk Walked, in: William SEAMAN (ed.), *From the Architecture of Ideas. The Life and Work of Ranulph Glanville - Cybernetician*, forthcoming.
- Change Ahead* Thomas FISCHER, 2015: Circular Regeneration, in: Carola VERSCHOOR (ed.), *Change Ahead: How Research and Design are Transforming Business Strategy*, BIS Publishers, Amsterdam, pp. 219–220.
- Critical Concepts in Architecture* Thomas FISCHER, 2015: The Interdependence of Linear and Circular Causality in CAAD Research: A Unified Model, in: Mark BURRY (ed.), *Digital Architecture. Critical Concepts in Architecture*, Routledge, London, to be released in August 2016.
- 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, 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, 2003: 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

- RPC 2017* Thomas FISCHER, 2017: Cybernetic Reentry: Towards a reflexive Pedagogy for Cybernetics, in: Vladimir E. LEPSKY (ed.): *Proceedings of the XI International Symposium Reflexive Processes and Control.*, Cogito-Center, Moscow, Russia, pp. 14–18.
- CAADRIA 2017* Christiane M. HERR and Thomas FISCHER, 2017: An Extended BIM Adoption Model, in: Patrick JANSSEN, Paul LOH, Aleksandra RAONIC, and Marc A. SCHNABEL (eds.): *Protocols, Flows and Glitches. Proceedings of the 22nd International Conference on Computer Aided Architectural Design Research in Asia*, XJTU, Suzhou, China, pp. 179–187.
- CAADRIA 2016* Thomas FISCHER and Christiane M. HERR, 2016: Parametric Customisation of a 3D Concrete Printed Pavilion, in: Sheng-Fen CHIEN, Seungyeon CHOO, Marc Aurel SCHNABEL, Walaiporn NAKAPAN, Mi Jeong KIM and Stanislaw ROUDAVSKI (eds.): *Living Systems and Micro-Utopias: Towards Continuous Designing. Proceedings of the 21st International Conference on Computer Aided Architectural Design Research in Asia*, The University of Melbourne, Melbourne, Australia, pp. 549–558.
- DADA 2015* Thomas FISCHER and Christiane HERR, 2015: Showcasing the New Choosing: A Parametric Jewellery Design and Fabrication Exhibit, in: Weiguo XU and Weixin HUANG (eds.): *Digital Factory: Proceedings of the DADA International Conference on Digital Architecture*, Tongji University, Shanghai, China, pp. 75–83.
- CAADRIA 2015* Thomas FISCHER, 2015: Participation, Not Conservation: A Computing Approach to Traditional Craft, in: Yasushi IKEDA, Christiane M. HERR, Dominik HOLZER, Sawako KAIJIMA, Mi Jeong KIM and Marc A. SCHNABEL (eds.): *Emerging Experiences in Past, Present and Future of Digital Architecture. Proceedings of the 20th International Conference on Computer Aided Architectural Design Research in Asia*, Kyungpook National University, Daegu, Republic of Korea, pp. 499–508.
- Emerging
Practices 2014* Thomas FISCHER and Marian MACKEN, 2014: Architectural Typograms in a Cross-Language Architectural Foundations Class, in: Jin MA, Yongqi LOU and Davide FASSI (eds.): *Emerging Practices: Inquiry into the Developing*, Tongji University Press, Shanghai, China, 130–140.

- 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, USA, 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, Japan, 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
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