

# THOMAS FISCHER PhD, PhD, FDRS, FCyBS

## PERSONAL INFORMATION

	<i>Born in Germany, 1972</i>
<i>citizenship</i>	German, permanent HK resident, China resident
<i>family</i>	married, two children
<i>email</i>	<a href="mailto:tfischer@sustech.edu.cn">tfischer@sustech.edu.cn</a>
<i>website</i>	<a href="http://www.tfischer.de">http://www.tfischer.de</a>

## ACADEMIC EXPERIENCE

*SUSTech*      *2021–ongoing*      SOUTHERN UNIVERSITY OF SCIENCE & TECHNOLOGY  
Professor at, and founding member of, the School of Design. Leader of the Design Cybernetics Group (<https://designcybernetics.org>)

*XJTLU*      *2011–2021*      XI'AN JIAOTONG-LIVERPOOL UNIVERSITY  
Professor at, and founding member of, the Departments of Architecture and Design. Acting Head of Department of Architecture (2011–2013). Associate Professor (2011–2018), Professor (since 2018), ongoing PhD supervisions.

*HU*      *2016–2017*      HUMBOLDT UNIVERSITY  
Visiting Researcher at the Institute of Musicology and Media Studies.

*NCKU*      *2010–2011*      NATIONAL CHENG KUNG UNIVERSITY  
Visiting Associate Professor at the College of Planning and Design.

*Shenzhen University*      *Sep–Oct 2008*      SHENZHEN UNIVERSITY  
Visiting Professor (Sep–Oct 2008) at The College of Architecture and Urban Planning. Delivered creative innovation workshop and related lectures.

*HKPolyU*      *1999–2010*      THE HONG KONG POLYTECHNIC UNIVERSITY  
Research Associate (1999–2001), Lecturer (2001–2008), Assistant Professor and Industrial and Product Design Discipline Leader (2008–2010), ongoing part-time postgraduate teaching.

*Deakin University*      *Apr–Sep 1999*      DEAKIN UNIVERSITY  
Visiting Scholar (Apr–Sep 1999) at School of Architecture and Built Environment. Metadata specification for Construction Primer online learning database, educational software prototyping.

## EDUCATION

*Graduate Cert in Cybersecurity*      *2019–2021*      HARVARD UNIVERSITY  
Harvard Extension School  
Professional graduate-level certificate in cybersecurity

*PhD in Architecture*      *2002–2008*      RMIT University  
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  
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  
Department of Education (FB1)  
Thesis: *Hypertext: Strukturen und Didaktisches Potenzial*  
Advisor: Prof. Wilhelm SANKE

#### ACADEMIC MEMBERSHIPS

ASC	American Society for Cybernetics – Lifetime Member
IASCYS	International Academy for Systems & Cybernetic Sciences – Certified Talent
DRS	Design Research Society – Fellow
CybSoc	The Cybernetics Society – Fellow
ISSS	International Society for the Systems Sciences – Member
CAADRIA	Computer-Aided Architectural Design Research in Asia – Member
ASA	Architectural Science Association – Member
IEEE	The Institute of Electrical and Electronics Engineers – Member
HKDA	Hong Kong Designers Association – Member

#### RESEARCH AND PROJECT GRANTS

01 Sep 2022 – 30 Aug 2026	SUSTECH--POLYU HK Collaborative PhD program, PhD scholarship for project titled “Design and Evaluation of a Tangible Analog Computing System”, primary supervisor, RMB 598,000.
01 Apr 2019 – 31 Mar 2022	XJTLU Research Development Fund / PhD Scholarship, project code RDF-17-02-43 “Toolmaking in Parametric Façade Design”, primary supervisor, RMB 366,000.
01 Jan 2020 – 31 Dec 2022	KSF Xi'an Jiaotong-Liverpool University Key Program Special Fund Project Code: KSF-E-49 “Paperless Drawing Method and Vernacular Tectonic”, co-investigator, RMB 200,000.
19 Jun 2018 – 28 Aug 2018	XJTLU Summer Undergraduate Research Fellowship (SURF) project “Low-Cost Digital Prototyping of Triangulated Shell Structures”, primary investigator, RMB 11,000.
01 Jul 2018 – 30 Jun 2021	XJTLU Research Development Fund / PhD Scholarship, project code RDF-17-01-57 “Architectural Devices as Catalysts for Urban Transformation”, primary supervisor, RMB 366,000.
20 Jun 2016 – 26 Aug 2016	XJTLU Summer Undergraduate Research Fellowship (SURF) project “Challenges to the Adoption of BIM in Chinese Architecture, Engineering and Construction”, co-investigator, RMB 11,500.
13 Jun 2015 – 28 Aug 2015	XJTLU Summer Undergraduate Research Fellowship (SURF) project “Online Parametric Customisation of 3D - Printed Buildings”, co-investigator, RMB 9,500.

01 Jan 2014 – 31 Oct 2014	XJTLU Design Research Institute special budget for “Design Research: Shared Territories” Exhibition, together with Marian MACKEN and Anuradha CHATTERJEE, RMB 55,000.
01 May 2015 – 31 Mar 2017	XJTLU Research Development Fund, project code RDF-14-02-41 “Perceptions of Creative Direction-Giving in Design Teams”, primary investigator, RMB 89,000.
16 Jun 2014 – 31 Aug 2014	XJTLU Summer Undergraduate Research Fellowship (SURF) project “Weaving Code”, primary investigator, RMB 9,000.
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, RMB 27,000.
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, HKD 95,240.
31 Jul 2006 – 31 Jul 2007	HK PolyU PhD scholarship (staff development programme) in support of PhD studies at RMIT, Australia, HKD 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, HKD 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, HKD 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, HKD 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, HKD 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, HKD 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, HKD 180,000.
31 Jan 2000 – 31 Jan 2002	HK PolyU Earmarked Provision for Special Purposes, “DMAN: Digital Media Access Network”, implementation of an on-premise data centre, project leader, HKD 7,000,000 plus annual service and maintenance budgets.
Apr 2000	Graduiertenförderung des Landes Hessen, University of Kassel (Germany), EUR 1,000.
01 Apr 1999 – 30 Sep 1999	Deakin University (Australia), Visiting Scholar Allowance, AUD 3,000.

## SERVICE

### *Exec Board Membership*

Executive board member of the American Society for Cybernetics since 2009, currently in the role of Vice President for Electronic Publishing (Secretary from 2009 to 2014).

<i>Conference Organisation</i>	Conference co-organisier 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 <i>Design Cybernetics: Navigating the New</i> (Springer). First editor of the <i>Proceedings of the 17th International Conference on Computer Aided Architectural Design Research in Asia</i> in 2012. Co-editor 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>Postgraduate Consortium Coordination</i>	Postgraduate Consortium Co-Chair of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) 2008–2012. Invited panellist 2014 and 2019.
<i>University Administration</i>	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

<i>May 2024</i>	Red Dot Design Award (Product Design) for THE ANALOG THING by anabrid GmbH together with Karl-Heinz DAHLMANN, Bernd ULMANN, Sven KÖPPEL, Dirk KILLAT, and Lars HEIMANN.
<i>Mar 2024</i>	IF Design Award (Products, Computer) for THE ANALOG THING by anabrid GmbH together with Karl-Heinz DAHLMANN, Bernd ULMANN, Sven KÖPPEL, Dirk KILLAT, and Lars HEIMANN.
<i>Dec 2021</i>	Shenzhen Municipality Pengcheng Peacock Plan Grade A International Talent (3 years).
<i>Apr 2019</i>	Recognition by the International Academy for Systems & Cybernetic Sciences as a Certified Talent.
<i>Nov 2017</i>	Certificate of Achievement from the international journal <i>Architectural Science Review</i> recognising Thomas FISCHER, 2014: “Scientific research into designing, While doing justice to designing”, <i>Architectural Science Review</i> , Volume 57, Issue 4, pp. 240–248 as one of the journal’s most-cited articles of the past 10 years.
<i>Dec 2015</i>	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 - 传统工艺的计学方法 (Participation, not conservation. A computing approach to traditional craft).
<i>Apr 2015</i>	Recipient of the 2014–2015 Inspiring XJTLU Person of the Year Award together with Christiane M. Herr, by students’ popular vote.
<i>Oct 2013</i>	Winner of the 2013–2014 Annual XJTLU Teaching Prize for Innovative Teaching Practices as leader of a team conducting an exercise on Architectural Typograms.

<i>Jul 2013</i>	Best Paper Award of the journal <i>Kybernetes</i> for the paper titled “Enigmatic mechanisms in defense of the capability to have new ideas”.
<i>Dec 2011</i>	Long-Term Leading Talent in Jinji Lake Double Hundred Talents award programme (5 years).
<i>Aug 2011</i>	Warren McCulloch Award of the American Society for Cybernetics.
<i>Oct 2008</i>	Named Fellow of the Design Research Society.
<i>2007</i>	Outstanding Professional Services and Innovation Award by The Hong Kong Polytechnic University and Institute for Enterprise together with my PhD student Wing C. Lau.
<i>2006</i>	Outstanding Professional Services and Innovation Award by The Hong Kong Polytechnic University and Institute for Enterprise.
<i>Nov 2005</i>	Faculty Team Award. Faculty of Communication, The Hong Kong Polytechnic University. With other contributors for the book <i>Hong Kong – Better by Design</i> .
<i>Apr 2002</i>	Best Presentation Award. 2002 conference of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) at the Multimedia University, Malaysia.
<i>Apr 2002</i>	Best Paper Award. 2002 conference of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) at the Multimedia University, Malaysia.

#### STUDENTS' AWARDS

<i>CAADRIA 2020</i>	My PhD student Chitraj BISSOONAUTH received the 2020 Young CAADRIA Award from the Association for Computer-Aided Architectural Design Research in Asia.
<i>IDEERS 2018</i>	I co-supervised 3rd-year students ZHANG Haoning, NI Shuyu, HU Qixuan and SONG Lu in winning the Structural Engineering Design and Aesthetic Architecture Design Awards, and in received the Earthquake Safe Certificate for their undergraduate category of the IDEERS 2018 Earthquake Engineering Research Competition.
<i>IDEERS 2015</i>	I co-supervised 3rd-year students LI Shaokang, QIAN Shiyu, YANG Shihao and ZHANG Xu as well as their support team SHAO Fuwei, LI Jiaxu, DU Hanxi and SHEN Xiaoya designing <i>Stronger Together</i> . 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 IDEERS 2015 Earthquake Engineering Research Competition.
<i>Flying Cloud 2014</i>	My 2nd-year BEng Industrial Design students HU Xiaoyi, GAO Tongwei, HE Lei, and Mao XINYI designed <i>Hello China</i> , 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 RMB 300,000 for the commercial development of the project.
<i>XJTLU 2014</i>	My 2nd year undergraduate students HU Enbo, ZOU Yifeng, XIAO Jiajie, WU Min, WU Yuexuan, DAN Zihang won an Honorable Mention at XJTLU Sixth Innovative Entrepreneurship Competition for their project <i>Gadget Radar</i> .

<i>IDEERS 2014</i>	I co-supervised 3rd-year students LIAO Longtai, YOU Jie, XIE Minghuan and WANG Weiping designing <i>Smooth Tower</i> , 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 IDEERS 2014 Earthquake Engineering Research Competition.
<i>IDEERS 2013</i>	I co-supervised 3rd-year students LI Jiehan, LI Yirong, GU Mengxue and CAI Xinting designing <i>Woven Tower</i> , 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 IDEERS 2013 Earthquake Engineering Research Competition, and ZHU Haoruo, WANG Siyao, NAN Fang and XIONG Henan who won an Earthquake Safety Certificate with <i>Interwoven Tower</i> in the same competition and category.
<i>IDEERS 2010</i>	I supervised students Andi BARLIANTO, Ayusta PANJAYA, Ricky PRIAMBODO and Yeddid YONATAN E.D. designing <i>Nano Tower</i> , which won the Most Creative Structural Design Engineering Award in the postgraduate category of the IDEERS 2010 Earthquake Engineering Research Competition.
<i>SDAA, COW/2009</i>	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 <i>Shellody</i> .
<i>IDHK</i>	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 <i>ButtonFree</i> .
<i>Sony Design Award</i>	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 <i>Family Photo Sharing Set</i> was exhibited on the 2006 Shanghai Design Biennial.
<i>Red Dot Award, DesignSmart</i>	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 <i>Plate Tectonics</i> .

#### PATENTS AND PRODUCT LICENCE AGREEMENTS

<i>Dec 2024</i>	China utility model patent, 03 Dec 2024, 一种基于幕墙的封闭式无人机包裹收货系统 ( <i>A Curtain Wall-Based Enclosed UAV Package Receiving System</i> ) together with Christiane M. HERR, ZHANG Wuwei, NONG Weiyu, LIU Zihan, and TANG Chao. Patent number ZL 2024 2 0928189.X.
<i>Dec 2024</i>	China utility model patent, 10 Dec 2024, 一种基于幕墙的无人机物流收货平台 ( <i>A Curtain Wall-based UAV Logistics Receiving Platform</i> ) together with Christiane M. HERR, ZHANG Wuwei, NONG Weiyu, LIU Zihan, and TANG Chao. Patent number ZL 2024 2 0960287.1.
<i>Dec 2024</i>	China design patent, 06 Dec 2024, 电子卡林巴 ( <i>Electronic Kalimba</i> ) together with JIANG Hanxi. Patent number ZL 2024 3 0262762.3.

<i>Nov 2024</i>	China utility model patent, 22 Nov 2024, 一种用于无人机物流的可折叠风速动态调节装置 ( <i>A Foldable Wind Speed Dynamic Adjustment Device for UAV Logistics</i> ) together with Christiane M. HERR, ZHANG Wuwei, NONG Weiyu, LIU Zihan, and TANG Chao. Patent number ZL 2024 2 0925642.1
<i>May 2023</i>	China utility model patent, 27 Jun 2023, 一种 3D 打印装置 ( <i>A 3D Printing Device</i> ) together with BAI Jiaming. Patent number CN 219256481 U.
<i>Jun 2008</i>	License agreement with Technical (HK) Manufacturing Ltd. via PolyU Technology & Consultancy Company Ltd. <i>Rotoroast</i> together with student MAK Wing Shan.
<i>Oct 2007</i>	License agreement with Well Group Enterprise Ltd. via PolyU Technology & Consultancy Company Ltd. <i>Truckloads of Knowledge</i> together with student CHAN Wing Chi.
<i>May 2006</i>	Hong Kong patent, 16 May 2006, validity 8 years) <i>Device for Interpreting Manual Symbol Input using Manual Display Element Interaction</i> together with PhD student Wing C. LAU. Patent number HK1084827.
<i>Mar 2006</i>	Hong Kong patent, 16 March 2006, validity 8 years) <i>Digital Timing Device and Method for Setting or Adjusting the Timing Device</i> together with PhD student Wing C. LAU. Patent number HK1083431.

#### EDITING AND CURATING

<i>Springer</i>	<i>Jan 2019</i> Springer: Design Research Foundations Design Cybernetics. Navigating the New (350 pages). Editors: Thomas FISCHER and Christiane M. HERR, Springer, Cham, ISBN: 978-3-030-18557-2.
<i>C&amp;HK</i>	<i>Mar 2016</i> Cybernetics & Human Knowing 50th Anniversary Retrospective of the ASC (special issue) Volume 23, Issue 1 Editors: Christiane M. HERR, Thomas FISCHER and Ranulph GLANVILLE. ISSN: 0907-0877.
<i>Shared Territories</i>	<i>Nov 2014</i> Shared Territories Peer-reviewed Design Research Exhibition at XJTLU in Suzhou, China. Curators: Anuradha CHATTERJEE, Marian MACKEN and Thomas FISCHER.
<i>IJAC</i>	<i>Oct 2013</i> Int'l Journal of Architectural Computing Volume 10, Issue 4. Editors: Thomas FISCHER, Wendy FOK and Urvi SETH. ISSN: 1478-0771.
<i>CAADRIA</i>	<i>Apr 2012</i> 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. ISBN: 978-988-19026-3-4.
<i>IJAC</i>	<i>Oct 2005</i> Int'l 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. ISSN: 1478-0771.



## BOOK-LENGTH PUBLICATIONS

<i>anabrid</i>	<p><i>May 2023</i>      <b>anabrid GmbH</b>  THE ANALOG THING. First Steps (28 pages). Authors: Thomas FISCHER and Bernd ULMANN, anabrid, Berlin, URL: <a href="https://the-analog-thing.org/THAT_First_Steps.pdf">https://the-analog-thing.org/THAT_First_Steps.pdf</a>.</p>
<i>Springer</i>	<p><i>Jan 2018</i>      <b>Springer: Design Research Foundations</b>  Design Cybernetics. Navigating the New (350 pages). Editors: Thomas FISCHER and Christiane M. HERR, Springer, Cham, ISBN: 978-3-030-18557-2.</p>
<i>DeGruyter</i>	<p><i>Nov 2018</i>      <b>DeGruyter</b>  Stefan HÖLTGEN, Thorsten SCHÖLER, Johannes MAIBAUM and Thomas FISCHER (2019). Medientechnisches Wissen Band 2: Informatik, Programmieren, Kybernetik (444 pages), DeGruyter, Oldenburg. ISBN: 978-3-11-049624-6.</p>
<i>CAADRIA</i>	<p><i>Apr 2012</i>      <b>CAADRIA 2012 Proceedings</b>  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. ISBN: 978-988-19026-3-4.</p>
<i>Tractatus Translation</i>	<p><i>Apr 2012</i>      <b>Tractatus Paradoxico-Philosophicus</b>  Ricardo B. URIBE (1991). <i>Tractatus Paradoxico-Philosophicus. A Philosophical Approach to Education</i>, Red Edition. From Spanish/English to German.</p>

## BOOK TRANSLATION

Ricardo B. URIBE (1991). *Tractatus Paradoxico-Philosophicus. A Philosophical Approach to Education*, Red Edition. From Spanish/English to German.

## REFEREED JOURNAL ARTICLES

<i>C &amp; HK</i>	<p>Thomas FISCHER (2025). Positive feed-forward: AI-based visual storytelling in design ethics, <i>Cybernetics and Human Knowing</i>, in review.</p>
<i>Constructivist Foundations</i>	<p>Thomas FISCHER and LI Hengjie (2025). Design of a contemporary elementary non-trivial machine, <i>Constructivist Foundations</i>, 20(2), 159–167, open access.</p>
<i>Constructivist Foundations</i>	<p>Guillermo SÁNCHEZ SOTÉS, Thomas FISCHER and Christiane M. HERR, (2025). Review of an academic research project “as done,” <i>Constructivist Foundations</i>, 20(2), 132–144.</p>
<i>FoAR</i>	<p>Chitraj BISSOONAUTH, Thomas FISCHER, and Christiane M. HERR (2024). The appropriation of autopoiesis in architecture, <i>Frontiers of Architectural Research</i>, in press, open access, DOI: 10.1016/j.foar.2024.12.005.</p>
<i>Materials &amp; Design</i>	<p>Thomas FISCHER, Chitraj BISSOONAUTH, Haowen LIANG, and Jiaming BAI (2024). Enabling cross-morphological performance comparison: A case study in heat management design, <i>Materials &amp; Design</i>, 239, 112826, open access DOI: 10.1016/j.matdes.2024.112826.</p>



<i>IJAC</i>	Thomas FISCHER and Thomas WORTMANN (2022). Algebraic analysis and reconstruction of the Philips Pavilion's hyperbolic paraboloid surfaces, <i>International Journal of Architectural Computing</i> , 20(1), 61–75, DOI: 10.1177/14780771221082253.
<i>Kybernetes</i>	Thomas FISCHER (2020). Narratives of exploration: From “Failure is not an option” to “Try again. Fail again. Fail better”, <i>Kybernetes</i> , 49(8), 2091–2108, DOI: 10.1108/K-07-2019-0502.
<i>Kybernetes</i>	Thomas FISCHER (2019). Transcomputability, (Glanville's Corollary of) Ashby's Law of Requisite Variety, and epistemic processes, <i>Kybernetes</i> , 48(4), 793–804, DOI: 10.1108/K-11-2017-0457.
<i>KnE SocSci</i>	Chitraj BISSOONAUTH, Christiane M. HERR and Thomas FISCHER (2019). Sustainable architecture for future high density cities: An applied design approach, <i>KnE Social Sciences</i> , 3(27), 559–571, DOI: 0.18502/kss.v3i27.5557.
<i>JCDE</i>	Christiane M. HERR and Thomas FISCHER (2018). Building information modelling adoption in the context of the Chinese AEC industries: An extended BIM adoption model, <i>Journal of Computational Design and Engineering</i> , 6(2), 173–178, DOI: 10.1016/j.jcde.2018.06.001.
<i>Kybernetes</i>	Thomas FISCHER (2017). A cybernetic perspective on determinability and design research, <i>Kybernetes</i> , 46(9), 1588–1596, DOI: 10.1108/K-10-2016-0269.
<i>Leonardo</i>	Thomas FISCHER and Laurence D. RICHARDS (2017). From goal-oriented to constraint-oriented design: The cybernetic intersection of design theory and systems theory, <i>Leonardo Journal</i> , 50(1), 36–41, DOI: 10.1162/LEON_a_00862.
<i>C &amp; HK</i>	Thomas FISCHER (2016). In Ranulph's terms, <i>Cybernetics and Human Knowing</i> , 21(1), 87–97.
<i>IEEE Tech. &amp; Soc.</i>	Thomas FISCHER (2015). Wiener's prefiguring of a cybernetic design theory, <i>IEEE Technology and Society Magazine</i> , 34(3), 52–59, DOI: 10.1109/MTS.2015.2461172.
<i>C &amp; HK</i>	Thomas FISCHER (2015). Designing together, <i>Cybernetics and Human Knowing</i> , 22(2/3), 131–144.
<i>Kybernetes</i>	Thomas FISCHER (2015). Blind spots obscuring circular causality in design and elsewhere, <i>Kybernetes</i> , 44(8/9), 1233–1239, DOI: 10.1108/K-11-2014-0267.
<i>Arch. Science Review</i>	Thomas FISCHER (2014). Scientific research into designing, while doing justice to designing, <i>Architectural Science Review</i> , 57(4), 240–248, open access, DOI: 10.1080/00038628.2014.958128.
<i>FoAR</i>	Thomas FISCHER (2014). Circular causality and indeterminism in machines for design, <i>Frontiers of Architectural Research</i> , 3(4), 368–375, open access, DOI: 10.1016/j.foar.2014.06.003.
<i>Kybernetes</i>	Thomas FISCHER (2014). Effects of variety reduction and amplification on recursively re-entering patterns, <i>Kybernetes</i> , 43(9/10), 1330–1337, DOI: 10.1108/K-09-2014-0185.

<i>Kybernetes</i>	Thomas FISCHER (2013). Enigmatic mechanisms in defense of the capability to have new ideas, <i>Kybernetes</i> , 42(9/10), 1374–1386, DOI: 10.1108/K-10-2012-0070.
<i>JMSS</i>	Christiane M. HERR and Thomas FISCHER (2013). Systems for showing and repurposing: A second-order cybernetic reflection on some cellular automata projects, <i>Journal of Mathematics and System Science</i> , 3(4), 201–216, open access, DOI: 10.17265/2159-5291/2013.04.007.
<i>C &amp; HK</i>	Thomas FISCHER (2013). The roles of listening and non-listening in the formation of organizational hierarchies, <i>Cybernetics and Human Knowing</i> , 20(1/2), 63–72.
<i>ArS</i>	Thomas FISCHER (2012). Geometry rationalization for non-standard architecture, <i>Architecture Science</i> , 5, 25–47.
<i>AMM</i>	Christiane M. HERR and Thomas FISCHER (2012). Constructing cardboard chairs for children as a part of applied structural design education in architecture, <i>Applied Mechanics and Materials</i> , 174–177, 1604–1610, DOI: 10.4028/www.scientific.net/AMM.174-177.1604.
<i>AMR</i>	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, <i>Advanced Materials Research</i> , 450–451, 257–262, DOI: 10.4028/www.scientific.net/AMR.450-451.257.
<i>Kybernetes</i>	Thomas FISCHER (2011). When is analog? When is digital? <i>Kybernetes</i> , 40(7/8), 1004–1014, DOI: 10.1108/03684921111160232.
<i>C &amp; HK</i>	Christiane M. HERR and Thomas FISCHER (2010). Digital drifting: Minimally instructive education for tool-based creativity in Asia, <i>Cybernetics and Human Knowing</i> , 17(1/2), 37–57.
<i>AutCon</i>	Thomas FISCHER (2007). Rationalising bubble trusses for batch production, <i>Automation in Construction</i> , 16(1), 45–53, DOI: 10.1016/j.autcon.2005.10.004.
<i>IJAC</i>	Thomas FISCHER (2005). Teaching programming for and with microcontroller-enhanced physical models, <i>International Journal of Architectural Computing</i> , 3(1), 57–74, DOI: 10.1260/1478077053739603.
<i>AutCon</i>	Thomas FISCHER, Mark BURRY and John FRAZER (2005). Triangulation of generative form for parametric design and rapid prototyping, <i>Automation in Construction</i> , 14(2), 233–240, DOI: 10.1016/j.autcon.2004.07.004.
<i>WSEAS Trans. Inf. Sci. Appl.</i>	Catherine HU and Thomas FISCHER (2004). Cultural perception and technique as constraints in computational design evolution: A case study of generative Chinese typography, <i>World Scientific and Engineering Academy and Society Transactions on Information Science and Applications</i> , 1(1), 292–297.
<i>WSEAS Trans. Systems</i>	Thomas FISCHER (2004). Notes on modeling evolutionary directionality, <i>World Scientific and Engineering Academy and Society Transactions on Systems</i> , 2(3), 579–583.

<i>IJDC</i>	Thomas FISCHER and Torben FISCHER (2003). Toolmaking for digital morphogenesis, <i>International Journal of Design Computing</i> , 6.
<i>AutCon</i>	Thomas FISCHER, Christiane M. HERR, Mark BURRY and John FRAZER (2003). Tangible interfaces to explain Gaudí's use of ruled-surface geometries, <i>Automation in Construction</i> , 12(5), 467–471, DOI: 10.1016/S0926-5805(03)00031-1.
<i>Jour. Guizhou Univ. Tech.</i>	Philip WONG and Thomas FISCHER (2002). Object-oriented clusters. A proposal for a new parallel processing paradigm, <i>Journal of Guizhou University of Technology</i> , 31(4), 27–33.

#### NON-REFEREED JOURNAL PUBLICATIONS

<i>Constructivist Foundations</i>	Thomas FISCHER, (2025). The continuing relevance of the Ashby Box, <i>Constructivist Foundations</i> , 20(2), 181–184.
<i>GRKG</i>	Thomas FISCHER (2016). Norbert Wiener's Antizipation einer kybernetischen Designtheorie, <i>Grundlagenstudien aus Kybernetik und Geisteswissenschaften</i> , 57(4), 240–253.
<i>Patterns</i>	Thomas FISCHER (2008). Onion rings you cannot see and a theremin I cannot play, <i>Patterns</i> , Fall 2008.
<i>Harvard Asia Pacific Review</i>	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, <i>Harvard Asia Pacific Review</i> , 9(2), 35–37.

#### BOOK CHAPTERS

<i>Architecture Across Boundaries</i>	Chitraj BISSOONAUTH, Thomas FISCHER, and Christiane M. HERR (2025). Extended linkography to scrutinise the distinction between epistemic actions in design, in: Jiawen HAN, Davide LOMBARDI, Alessandro CECE (eds.), <i>Advances in the Integration of Technology and the Built Environment. Select Proceeding of Architecture Across Boundaries 2024</i> , Springer, Singapore, 331–339, open access. DOI: 10.1007/978-981-96-4749-1_39.
<i>Architecture Across Boundaries</i>	Guillermo SÁNCHEZ SOTÉS, Thomas FISCHER, and Christiane M. HERR (2025). A method for examining the merits of theory appropriation in architecture, in: Jiawen HAN, Davide LOMBARDI, Alessandro CECE (eds.), <i>Advances in the Integration of Technology and the Built Environment. Select Proceeding of Architecture Across Boundaries 2024</i> , Springer, Singapore, 323–330, open access. DOI: 10.1007/978-981-96-4749-1_38.
<i>Frictions</i>	Thomas FISCHER and Andrei CRETU (2023). The Ashby Box: A contextualization and speculative remake, in: Diego GÓMEZ-VENEGAS (ed.), <i>Frictions: Inquiries into Cybernetic Thinking and Its Attempts towards Mate[real]ization</i> , Meson Press, Lüneburg, 163–193, open access.
<i>Architecture of Ideas</i>	Thomas FISCHER (2022). Tracks left by a walk walked, in: Bill SEAMAN (ed.), <i>The Architecture of Ideas. The Life and Work of Ranulph Glanville – Cybernetician</i> , Imprint Academic, Exeter, 215–217.

<i>Critical Concepts in Architecture</i>	Thomas FISCHER (2020). The interdependence of linear and circular causality in CAAD research: A unified model, in: Mark BURRY (ed.), <i>Digital Architecture. Critical Concepts in Architecture</i> , Volume 4, Part 6: Digital Architecture as Transdisciplinary Bridge Builder, Routledge, London.
<i>Design Cybernetics</i>	Thomas FISCHER and Christiane M. HERR (2019). An introduction to design cybernetics, in: Thomas FISCHER Cybernetics and Christiane M. HERR (eds.), <i>Design Cybernetics. Navigating the New</i> , Springer, Cham, 1–23. DOI: 10.1007/978-3-030-18557-2_1.
<i>Design Cybernetics</i>	Thomas FISCHER (2019). A theory of (and for) enquiry, in: Thomas FISCHER and Christiane M. HERR (eds.), <i>Design Cybernetics. Navigating the New</i> , Springer, Cham, 247–262. DOI: 10.1007/978-3-030-18557-2_14.
<i>Medien- technisches Wissen</i>	Thomas FISCHER (2018). Kybernetik für Medienwissenschaftler, in: Stefan HÖLTGEN, Thorsten SCHÖLER, Johannes MAIBAUM, and Thomas FISCHER (eds.), <i>Medientechnisches Wissen Band 2: Informatik, Programmieren, Kybernetik</i> , DeGruyter, Oldenburg, 273–433. ISBN: 978-3-11-049625-3.
<i>London and the 1960s</i>	Thomas FISCHER (2016). Defaceable System MK 4 and Brent Shopping Yr 3, in: Marianne ERTL, Werner KORN and Albert MÜLLER (eds.), <i>Ranulph Glanville. Art Architecture Cybernetics Design. London and the 1960s</i> , Edition Echoraum, Vienna, 63–70.
<i>Change Ahead</i>	Thomas FISCHER (2015). Circular regeneration, in: Carola VERSCHOOR (ed.), <i>Change Ahead: How Research and Design are Transforming Business Strategy</i> , BIS Publishers, Amsterdam, 219–220.
<i>Trojan Horses</i>	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.), <i>Trojan Horses. A Rattle Bag from the “Cybernetics: Art, Design, Mathematics — A Meta-Disciplinary Conversation” post-conference workshop</i> , Edition Echoraum series, Vienna, 19–27.
<i>CAAD Talks</i>	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.), <i>Insights of Smart Environments. CAAD Talks 5</i> , Archidata, Taipei, 87–104.
<i>Festschrift Hans Dehlinger</i>	Thomas FISCHER (2004). Und aus Welchem Fachbereich Kommen Sie?, in: Heike RAAP and Philip ZERWECK (eds.), <i>Die Verbesserung von Mitteleuropa steht nicht mehr auf meinem Plan. Eine Festschrift zur Verabschiedung von Hans Dehlinger</i> , Books on Demand, Norderstedt, 92–100.
<i>Hong Kong Better by Design</i>	Thomas FISCHER (2004). Mass customization and generative design, in: Tin Pui LEUNG (ed.), <i>Kong Kong: Better by Design</i> , The Hong Kong Polytechnic University, Hong Kong, 119–130.
<i>Navigating Design</i>	Thomas FISCHER and Catherine HU (2003). Designing interactivity, in: Alice Lo (ed.), <i>Navigating Design. A Voyage of Discovery</i> , The Hong Kong Polytechnic University with Hong Kong Arts Development Council, Hong Kong, 446–455.
<i>Navigating Design</i>	Thomas FISCHER (2003). Listening to design. Learning from the music industry, in: Alice Lo (ed.), <i>Navigating Design. A Voyage of Discovery</i> , The Hong Kong Polytechnic University with Hong Kong Arts Development Council, Hong Kong, 370–387.

## CONFERENCE PAPERS

- eCAADe 2025* XUE Chao, BAO Boyu and Thomas FISCHER (2025). Analog-digital hybrid parametric design modeling, in: *Proceedings of the 43rd Education and Research in Computer Aided Architectural Design in Europe (eCAADe) Conference*, Ankara, Turkey, Middle East Technical University, Faculty of Architecture, Department of Architecture, abstract accepted.
- DRS 2022* Thomas FISCHER (2022). A theory for enquiry in design PhD research, in: *Proceedings of Relating Systems Thinking and Design RSD11 Possibilities and Practices of Systemic Design*, Brighton, UK, URL: <https://rdsymposium.org/a-theory-for-enquiry-in-design-phd-research>.
- DRS 2022* Guillermo Sánchez SOTÉS, Christiane M. HERR and Thomas FISCHER (2022). What to make of the appropriation of autopoiesis in architecture?, in: *Proceedings of Relating Systems Thinking and Design RSD11 Possibilities and Practices of Systemic Design*, Brighton, UK, URL: <https://rdsymposium.org/what-to-make-of-the-appropriation-of-autopoiesis-in-architecture>.
- DRS 2022* Chitraj BISSOONAUTH, Christiane M. HERR and Thomas FISCHER (2022). An empirical study of understanding in order to act and acting in order to understand in digital design practice, in: *Proceedings of Relating Systems Thinking and Design RSD11 Possibilities and Practices of Systemic Design*, Brighton, UK, URL: <https://rdsymposium.org/empirical-study-of-understanding-in-digital-design-practice>.
- CAADRIA 2020* Thomas FISCHER and Thomas WORTMANN (2020). From geometrically to algebraically described hyperbolic paraboloids: An optimisation-based analysis of the Philips Pavilion, in: Dominik HOLZER, Walaiporn NAKAPAN, Immanuel KOH and Anastasia GLOBA (eds.): *Proc. 25th CAADRIA Conference*, Vol. 1, Faculty of Architecture, Chulalongkorn University, Bangkok, Thailand, 435–444.
- CAADRIA 2020* Thomas WORTMANN and Thomas FISCHER (2020). Does architectural design optimization require multiple objectives? A critical analysis, in: Dominik HOLZER, Walaiporn NAKAPAN, Immanuel KOH and Anastasia GLOBA (eds.): *Proc. 25th CAADRIA Conference*, Vol. 1, Chulalongkorn University, Bangkok, Thailand, 365–374.
- CAADRIA 2020* Chitraj BISSOONAUTH, Thomas FISCHER and Christiane M. HERR (2020). An ethnographic enquiry into digital design toolmaking, in: Dominik HOLZER, Walaiporn NAKAPAN, Immanuel KOH and Anastasia GLOBA (eds.): *Proc. 25th CAADRIA Conference*, Vol. 2, Chulalongkorn University, Bangkok, Thailand, 366–374.
- CAADRIA 2019* Christiane M. HERR and Thomas FISCHER (2019). Design cybernetics and CAAD research. Aspects of our shared interests, in: Matthias Hank HAEUSLER, Marc Aurel SCHNABEL and Tomohiro FUKUDA (eds.): *Proc. 24th CAADRIA Conference*, Vol. 2, Victoria University of Wellington, New Zealand, 541–550.
- CAADRIA 2019* Thomas FISCHER, Christiane M. HERR and Michael GRAU (2019). Triangulated shell foam structures based on robotic hot-wire-cutting. A design, geometry rationalisation and fabrication workflow, in: Matthias Hank HAEUSLER, Marc Aurel SCHNABEL and Tomohiro FUKUDA (eds.): *Proc. 24th CAADRIA Conference*, Vol. 2, Victoria University of Wellington, New Zealand, 551–560.

<i>RPC 2017</i>	Thomas FISCHER (2017). Cybernetic reentry: Towards a reflexive pedagogy for cybernetics, in: Vladimir E. LEPSKY (ed.): <i>Proceedings of the XI International Symposium Reflexive Processes and Control</i> , Cogito-Center, Moscow, Russia, 14–18.
<i>CAADRIA 2017</i>	Christiane M. HERR and Thomas FISCHER (2017). An extended BIM adoption model, in: Patrick JANSSEN, Paul LOH, Aleksandra RAONIC, and Marc A. SCHNABEL (eds.): <i>Proc. 22nd CAADRIA Conference</i> , XJTLU, Suzhou, China, 179–187.
<i>CAADRIA 2016</i>	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 Stanislav ROUDAVSKI (eds.): <i>Proc. 21st CAADRIA Conference</i> , The University of Melbourne, Australia, 549–558.
<i>DADA 2015</i>	Thomas FISCHER and Christiane HERR (2015). Showcasing the new choosing: A parametric jewellery design and fabrication exhibit, in: Weiguo XU and Weixin HUANG (eds.): <i>Digital Factory: Proceedings of the DADA International Conference on Digital Architecture</i> , Tongji University, Shanghai, China, 75–83.
<i>CAADRIA 2015</i>	Thomas FISCHER (2015). Participation, not conservation: A computing approach to traditional craft, in: Yasushi IKEDA, Christiane M. HERR, Dominik HOLZER, Sawako KAJIMA, Mi Jeong KIM and Marc A. SCHNABEL (eds.): <i>Proc. 20th CAADRIA Conference</i> , Kyungpook National University, Daegu, Republic of Korea, 499–508.
<i>Emerging Practices 2014</i>	Thomas FISCHER and Marian MACKEN (2014). Architectural typograms in a cross-language architectural foundations class, in: Jin MA, Yongqi LOU and Davide FASSI (eds.): <i>Emerging Practices: Inquiry into the Developing</i> , Tongji University Press, Shanghai, China, 130–140.
<i>21st Century Wiener</i>	Thomas FISCHER (2014). Wiener's prefiguring of a cybernetic design theory, in: <i>Proceedings of the IEEE Conference on Norbert Wiener in the 21st Century</i> , Boston, USA, available online in IEEE Xplore Digital Library, DOI: 10.1109/NORBERT.2014.6893913.
<i>CAADRIA 2014</i>	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.), <i>Proc. 19th CAADRIA Conference</i> , Kyoto Institute of Technology, Kyoto, Japan, 399–408.
<i>DesignEd Asia 2013</i>	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.), <i>Proc. DesignEd Asia Conference 2013</i> , The Hong Kong Polytechnic University School of Design and Hong Kong Design Institute, Hong Kong, 303–310.
<i>ASA 2013 (keynote)</i>	Thomas FISCHER (2013). Design research between different research traditions: A case study, in: Marc Aurel SCHNABEL (ed.), <i>Cutting Edge in Architectural Science: Proc. 47th International Conference of the Architectural Science Association 2013</i> , The Architectural Science Association and The Chinese University of Hong Kong, Hong Kong, 19–28.



- CAAD Futures  
2013
- Christiane M. HERR and Thomas FISCHER (2013). Generative column and beam layout for reinforced concrete structures in China, in: ZHANG Jianlong and SUN Chengyu (eds.), *Proc. CAAD Futures 2013: Global Design and Local Materialization*, CCIS 369, Springer, Heidelberg, 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.): *Proc. 17th CAADRIA Conference*, Hindustan University, Chennai, India, 679–688, DOI: 10.1007/978-3-642-38974-0\_8.
- 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, China, 266–276.
- ICID 2011
- Thomas FISCHER and Ranulph GLANVILLE (2011). Besides designing to interact: Interacting to design, in: *Responsibility and Delight. Proc. 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, Taiwan, 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.): *Proc. 16th CAADRIA Conference*, School of Architecture and Built Environment, The University of Newcastle, Australia, 623–632.
- 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.): *Proc. 15th CAADRIA Conference*, Department of Architecture, The Chinese University of Hong Kong, Hong Kong, 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.): *Proc. 14th CAADRIA Conference*, Department of Digital Media Design, National Yunlin University of Science and Technology, Douliou, Taiwan, 791–795.
- CAADRIA 2008
- Thomas FISCHER (2008). Obstructed magic. On the myths of observing designing and of sharing design observations, in: Walaiporn NAKAPAN, Ekkachai MAHAEK, Komson TEERAPARBWONG and Piyaboon NILKAEW (eds.): *Proc. 13th CAADRIA Conference*, Pimniyom Press, Chiang Mai, Thailand, 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. Proc. 12th International Conference on CAAD Futures*, Springer, Dordrecht, 585–598, DOI: 10.1007/978-1-4020-6528-6\_43.



- 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.): *Proc. 12th CAADRIA Conference*, Southeast University Press, Nanjing, China, 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, Finland, 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, 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, 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, Denmark, 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, Italy, 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.): *Proc. 9th CAADRIA Conference*, Yonsei University Press, Seoul, Korea, 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, Italy.
- 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*, Politecnico di Milano University, Milano, Italy, 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. Proc. 21st International eCAADe Conference 2003*, Graz University of Technology, Graz, Austria, 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, Germany, 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, 403–412.
- GA 2002 Thomas FISCHER (2002). Computation-universal voxel automata as material for generative design education, in: Celestino SODDU (ed.): *Proceedings of the 5th Conference and Exhibition on Generative Art 2002*, Politecnico di Milano University, Milano, Italy, 10.1-10.11.
- ANZAScA 2002 Thomas FISCHER, Philip WONG and Mark LUTHER (2002). Towards real-time weather data visualisation, in: Mark LUTHER (ed.): *Architectural Education: From Pedagogy to Adragogy. Proceedings of the 36th Conference of the Australian and New Zealand Architectural Science Association*, School of Architecture and Building, Deakin University, Geelong, Australia, 143–150.
- ANZAScA 2002 Robert AMOR, Jane BURRY, Thomas FISCHER and Robert WOODBURY (2002). Ontology specification for design communication, in: Mark LUTHER (ed.): *Architectural Education: From Pedagogy to Adragogy. Proceedings of the 36th Conference of the Australian and New Zealand Architectural Science Association*, School of Architecture and Building, Deakin University, Geelong, Australia, 27–34.
- ACADIA 2002 Thomas FISCHER, Torben FISCHER and Cristiano CECCATO (2002). Distributed agents for morphologic and behavioral expression in cellular design systems, in: George PROCTOR (ed.): *Thresholds. Proceedings of the 2002 Conference of the Association for Computer Aided Design in Architecture. Department of Architecture, College of Environmental Design*, California State Polytechnic University, Pomona, USA, 113–123.
- eCAADe 2002 Cristiano CECCATO, Thomas FISCHER, Chun-Man LI and John FRAZER (2002). A large-scale computing infrastructure for design computation, in: Krzysztof KOSZWESKI and Stefan WRONA (eds.): *eCAADe20. Proc. 20th Conference on Education in Computer Aided Architectural Design in Europe*, Warsaw University of Technology, Warsaw, Poland, 282–289.
- CAD & CG 2002 Philip WONG and Thomas FISCHER (2002). Object-oriented clusters. A proposal for a new parallel processing paradigm, in: *CAD & CG. Proceedings of the 12th Conference on Computer Aided Design Research and Computer Graphics*, Guizhou University of Technology, Guiyang, China, 131–136.
- CAADRIA 2002 Thomas FISCHER, Christiane M. HERR, Mark BURRY and John FRAZER (2002). Tangible interfaces to explain Gaudí's use of ruled-surface geometries. Interactive Systems Design for Haptic, Non-Verbal Learning, in: Ahmad Rafi Mohamed ESHAQ, Chee Weng KHONG, Mai Neo, Ken TK NEO, Sharifah Nur Antasha Syed AHMAD (eds.): *Proc. 7th CAADRIA Conference*, Prentice Hall, New York and London, 131–138.

<i>GA 2001</i>	Thomas FISCHER and Christiane M. HERR (2002). Teaching generative design, in: Celestino SODDU (ed.): <i>Proceedings of the 4th Conference and Exhibition on Generative Art 2001</i> , Politecnico di Milano University, Milano, Italy.
<i>M&amp;D 2001</i>	Thomas FISCHER, Cristiano CECCATO and John FRAZER (2001). Haptic programming with machine-readable models, in: Mark BURRY, Sambit DATTA, Anthony DAWSON and John ROLLO (eds.): <i>Proceedings of Mathematics and Design 2001. The 3rd International Conference</i> , Deakin University, Geelong, Australia, 158–165.
<i>ACADIA 2000</i>	Thomas FISCHER, Christiane M. HERR and Cristiano CECCATO (2000). Towards real time interaction visualization in networked education in design, in: Mark J. CLAYTON and Guillermo P. VASQUEZ DE VELASCO (eds.): <i>ACADIA 2000 Conference Proceedings</i> , Catholic University, Washington D.C., USA, 19–22.
<i>SIGraDi 2000</i>	Thomas FISCHER, Christiane M. Herr and Cristiano CECCATO (2000). The Silk Road. An interactive online encyclopedia as a foundation for networked education in design, in: Jose Ripper Kos (eds.): <i>SIGRADI 2000 Conference Proceedings</i> , Universidad Nacional de Mar del Plata, Rio de Janeiro, Brazil, 50–54.
<i>CAADRIA 2000</i>	Lorne FALK, Cristiano CECCATO, Catherine HU, Philip WONG and Thomas FISCHER (2000). Towards a networked education in design, in: Beng-Tiang TAN, Milton TAN and Yunn-Chii WONG (eds.): <i>Proc. 5th CAADRIA Conference</i> , Centre for Advanced Studies in Architecture (CASA), Singapore, 157–167.
<i>CAADRIA 2000</i>	Thomas FISCHER, Mark BURRY and Robert WOODBURY (2000). Object-oriented modelling in computer-aided architectural and educational CAD, in: Beng-Tiang TAN, Milton TAN and Yunn-Chii WONG (eds.): <i>Proc. 5th CAADRIA Conference</i> , Centre for Advanced Studies in Architecture (CASA), Singapore, 145–155.
<i>EUNIS 1999</i>	Thomas FISCHER (1999). Dynamic WWW Style processing with SeSAMe, in: Kirstel SARLIN (eds.): <i>EUNIS99. Information Technology Shaping European Universities (Conference Proceedings)</i> , Helsinki University of Technology, Espoo, Finland, 67–72.

#### OTHER INFORMATION

<i>Languages</i>	GERMAN • native speaker ENGLISH • proficient
<i>Interests</i>	long-distance running • scuba diving • mountain biking electronic sound • cybersecurity • computer history

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