

# Stanford

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## Martin Fischer

Kumagai Professor in the School of Engineering and Senior Fellow at the Precourt Institute for Energy

Civil and Environmental Engineering

### CONTACT INFORMATION

- **Administrator**

Sharyn Nantuna - Program Administrator

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### Bio

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#### BIO

Professor Fischer's research goals are to improve the productivity of project teams involved in designing, building, and operating facilities and to enhance the sustainability of the built environment. His work develops the theoretical foundations and applications for virtual design and construction (VDC). VDC methods support the design of a facility and its delivery process and help reduce the costs and maximize the value over its lifecycle. His research has been used by many small and large industrial government organizations around the world.

#### ACADEMIC APPOINTMENTS

- Professor, Civil and Environmental Engineering
- Senior Fellow, Precourt Institute for Energy

#### ADMINISTRATIVE APPOINTMENTS

- Director, Center for Integrated Facility Engineering - CIFE, (2001- present)

#### HONORS AND AWARDS

- Honorary Senior Fellow, Design Futures Council (2006)
- Hoefler Prize for Excellence in Undergraduate Writing, Stanford University (1997,1998, 2005)
- Best Paper Award, Artificial Intelligence in Design (2000)
- Top 25 Newsmaker, Engineering News Record (1996)
- Eugene L. Grant Award for Excellence in Teaching, Eugene L. Grant (1999)

#### PROFESSIONAL EDUCATION

- PhD, Stanford University (1991)

#### LINKS

- <http://www.stanford.edu/~fischer>: <http://www.stanford.edu/~fischer>

## Teaching

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### COURSES

#### 2017-18

- Artificial Intelligence Applications in the AEC Industry: CEE 329 (Spr)
- Autonomous Vehicle Frameworks Developing and Applying Comparison Metrics: CEE 326 (Aut)
- Industrialized Construction: CEE 324 (Win)
- Integrated Management of Fabrication and Construction: CEE 241P (Spr)
- Managing Fabrication and Construction: CEE 241 (Win)
- Managing Sustainable Building Projects: CEE 100 (Aut)
- Seminar on Artificial Intelligence Applications in the AEC Industry: CEE 329S (Spr)
- Virtual Design and Construction: CEE 341 (Spr)

#### 2016-17

- Design and Innovation for the Circular Economy: CEE 144 (Spr)
- Industrialized Construction: CEE 324 (Win)
- Integrated Management of Fabrication and Construction: CEE 241P (Win)
- Introduction to Real Estate Development: CEE 248 (Spr)
- Managing Fabrication and Construction: CEE 241 (Aut)
- Managing Sustainable Building Projects: CEE 100 (Aut)

#### 2015-16

- Design and Innovation for the Circular Economy: CEE 144 (Spr)
- Industrialized Construction: CEE 324 (Spr)
- Integrated Management of Fabrication and Construction: CEE 241P (Win)
- Managing Fabrication and Construction: CEE 241 (Aut)
- Managing Sustainable Building Projects: CEE 100 (Aut)

#### 2014-15

- Climate Change Adaptation for Coastal Cities: Engineering and Policy for a Sustainable Future: CEE 129, CEE 229 (Aut)
- Design and Innovation for the Circular Economy: CEE 144 (Spr)
- Fundamentals of Managing Fabrication and Construction: CEE 241T (Aut)
- Integrated Facility Engineering: CEE 320 (Win)
- Managing Fabrication and Construction: CEE 241 (Aut)
- Managing Sustainable Building Projects: CEE 100 (Aut)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Christopher Ford

#### Postdoctoral Faculty Sponsor

Jung In Kim

#### Doctoral Dissertation Advisor (AC)

Anne Siders

**Master's Program Advisor**

Cynthia Brosque Markenson