

3D Printing Oriented Design: Geometry and Optimization

Siggraph Asia 2014 Course
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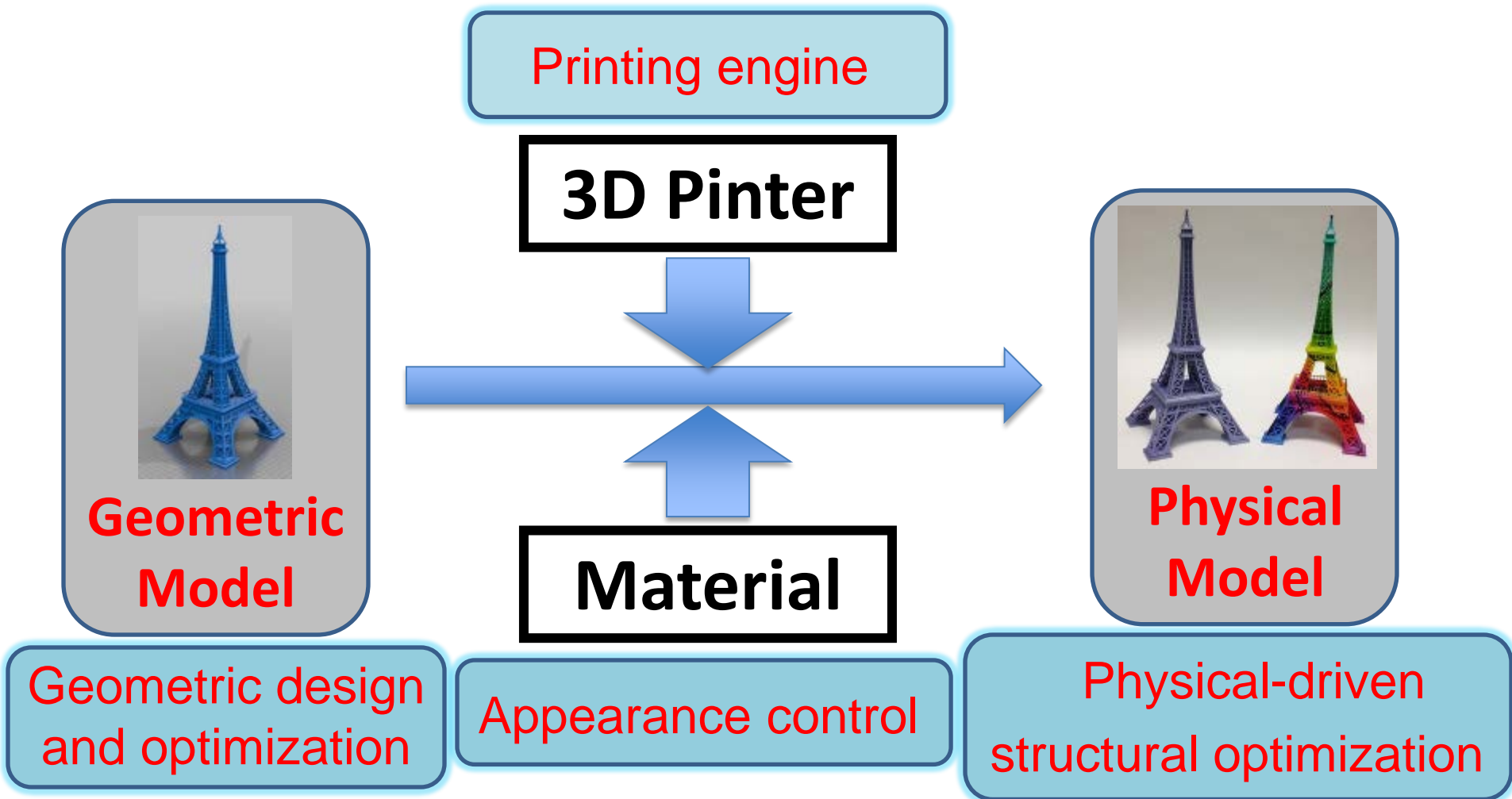
Siggraph Asia 2014 Course

Part 6: Summary

Ligang Liu

Recap: Course content

- ▶ **Ligang Liu: Introduction to 3D printing**
 - ▶ Applications of 3D printing
 - ▶ Graphics researches in 3D printing
- ▶ **Charlie Wang: Fabrication principles**
 - ▶ Different types of additive manufacturing
 - ▶ Numeric robustness and computing for fabrication
- ▶ **Ariel Shamir: Design tools**
 - ▶ Fabrication aware geometric design
 - ▶ Design tools for 3D printing
- ▶ **Emily Whiting: Structural optimization**
 - ▶ Analysis methods and optimization objectives
 - ▶ Material model and shape corrections



- ▶ Not much so far
- ▶ It just isn't on the horizon for most folks
- ▶ But there have been suggestions that the technology will have to be banned, or at least heavily regulated

Facts...

- ▶ 3D printers are always getting cheaper and faster
- ▶ More and more promising applications
- ▶ The benefits of such technology are endless
- ▶ **Humans are making progress rapidly!**



A 3D printer

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Imagination

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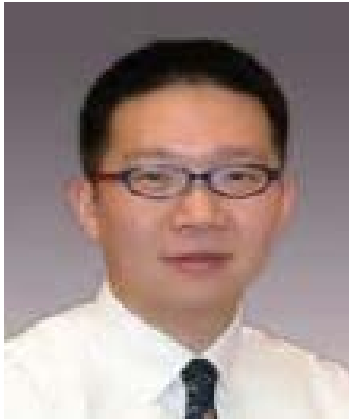
Fantastic tings

3D Printing: Emerging Technologies for Researchers!

A promising interdisciplinary subject.

Thanks...

▶ Lecturers



Charlie C. L. Wang



Ariel Shamir



Emily Whiting

▶ All audience

- ▶ Linked from
 - ▶ <http://staff.ustc.edu.cn/~lgliu>
- ▶ What to share
 - ▶ Slides
 - ▶ Related resources



QR Code of Wechat

Comment and feedback via course webpage

Thank you!



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