

3D Printing: From Ideas to Reality

「3D 打印：從理念到實踐」研討會

- Date 日期 : 29 / 4 / 2015 (Wednesday 星期三)
- Time 時間 : 2:30pm-3:30pm
- Venue 地點 : Seminar Room, Hall 6, AWE
亞洲國際博覽館 6 號展館 研討室
- Language 語言 : Cantonese and Putonghua 廣東話及普通話 (恕不設即時傳譯服務)
(Simultaneous Interpretation Service will not be provided)
- Remarks 備註* : Each session includes 20 minute presentation and 10 minute Q&A.
每節包括 20 分鐘講座及 10 分鐘問答環節。

Free admission, seats are available on a first-come-first-served basis.
For trade visitors only, persons under 18 will not be admitted.
免費入座。座位有限，先到先得。只供 18 歲或以上之業內人士進場。

Time 時間	Programme 程序表
2:15pm – 2:30pm	Registration 登記
2:30pm – 3pm	<p>Session 1 : 3D Printing for Designers and You</p> <p>Speaker 講者 : Mr Marco King Chan, Founder, Dust Production HK Limited</p>
3pm – 3:30pm	<p>Session 2 : Low cost high performance 3D printing with easy scanning</p> <p>Speaker 講者 : Prof John Zhang, Associate Professor, Department of Computing, Hong Kong Polytechnic University</p>

Session 1: 3D Printing for Designers and You

Abstract 摘要:

1. Introduction of 3D printing technology
2. Introduction of DUST PRODUCTION
 - a. Our PMQ theme shop
 - b. Our design collection
 - c. Our Workshop
3. How we apply 3D printing to design projects
 - a. Limitation of traditional manufacturing process
 - b. New 3D printing design thinking & strategies
 - c. Our collaborative project with VIDAL SASSON as example
4. Projection of how “New 3D printing design thinking & Strategies” could affect our future
 - a. In consumer product level
 - b. In other level

About the Speaker 講者簡介

Mr Marco King Chan, Founder, Dust Production HK Limited

Marco King CHAN is an industrial designer who finished his studies in Australia and Paris, majored in industrial design and mobility design. During his studies he already used 3D printing and created model which was awarded and exhibited in different design galleries in Australia.

Marco has dedicated his passion to 3D PRINTING DESIGN and established DUST PRODUCTION in 2012. Applying his 3D modelling skills and fabricated by 3D printing technology to create accessory, gadget and home deco, his design is unique and beyond the boundary of traditional design language. Let's embrace "Technology x Aesthetics"!



Session 2: Low cost high performance 3D printing with easy scanning

Introduction 簡介:

3D printing integrates the latest achievements of Numerical Control, CAD/CAM, Computer Science, Laser, Materials, etc. It has high interchangeability, can be easily replicated, and can manufacture prototypes with complex surface, etc. In this talk, I will first introduce the existing major 3D printing technologies, and the future development of 3D printing. Then I will introduce a low-cost high-performance desktop 3D printing system we developed, which has lower cost than the existing systems but with high printing precision, fast printing speed and large printing size. At last, I will introduce the current 3D scanning technologies, as well as an advanced real-time 3D scanning technique we developed, which allows users to reliably reconstruct the 3D models of real-world objects using even a webcam or smart-phone/tablet camera. The reconstructed 3D models can be easily uploaded to 3D printers for printing.

About the Speaker 講者簡介

Prof John Zhang, Associate Professor, Department of Computing, Hong Kong Polytechnic University

Lei Zhang received the B.Sc. degree in 1995 from Shenyang Institute of Aeronautical Engineering, Shenyang, P.R. China, the M.Sc. and Ph.D degrees in Control Theory and Engineering from Northwestern Polytechnical University, Xi'an, P.R. China, respectively in 1998 and 2001. From 2001 to 2002, he was a research associate in the Dept. of Computing, The Hong Kong Polytechnic University. From Jan. 2003 to Jan. 2006 he worked as a Postdoctoral Fellow in the Dept. of Electrical and Computer Engineering, McMaster University, Canada.

In 2006, he joined the Dept. of Computing, The Hong Kong Polytechnic University, as an Assistant Professor. Since Sept. 2010, he has been an Associate Professor in the same department. His research interests include Image and Video Processing, Computer Vision, Pattern Recognition and Biometrics, etc. Dr. Zhang has published more than 200 papers in those areas. By 2015, his works have been cited more than 12,000 times. Dr. Zhang is currently an Associate Editor of IEEE Trans. on Image Processing, IEEE Trans. on CSVT and Image and Vision Computing. He was awarded the 2012-13 Faculty Award in Research and Scholarly Activities.

