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SHORT-BIO

Dr. Yong Chen is a tenured professor of Aerospace and Mechanical Engineering and Industrial and Systems Engineering at the *University of Southern California* (USC). Before joining USC in 2006, he was a Senior Research and Development engineer at *3D Systems Inc.*, the pioneer of the 3D printing industry, from 2001 to 2006. Dr. Chen received his Ph.D. degree in Mechanical Engineering from the *Georgia Institute of Technology* in 2001. He was a Visiting Professor at universities in Finland, Singapore, and Hong Kong.

Dr Chen's research focuses on additive manufacturing (3D printing) and related modeling, control, material, and application. He has published 1 edited book, 4 book chapters, and nearly 200 publications in refereed journals and conferences, as well as 15 issued and pending U.S. patents. His work has been recognized by fourteen *Best/Outstanding Paper Awards* in major design and manufacturing conferences, including MSEC, NAMRC, CIE, SFF, ICOMM, and scientific journals, including *Research* and *Rapid Prototyping Journal*. He received two *USC Innovation Commercialization Awards* for licensed patents to companies, including *SprintRay* and *InBrace*. Other major awards he received include the National Science Foundation *Faculty Early Career Development (CAREER) Award*, the *Outstanding Young Manufacturing Engineer Award* from the Society of Manufacturing Engineers, a *Leadership and Service Award* from the ASME CIE division, and three invitations to the National Academy of Engineering *Frontiers of Engineering Symposiums*.

Dr. Chen is a Fellow of the American Society of Mechanical Engineers (ASME). He has served as conference/program chair as well as keynote speaker in several international design and manufacturing conferences, including the *Conference Chair* of the 2017 International Manufacturing Research Conference (NAMRC/MSEC/ICM&P), the *Program Co-chair* of the 2019 International Design Engineering Technical Conferences (IDETC), and the *Program Chair* and the *Program Co-chair* of the 2022 and 2021 Manufacturing Science and Engineering Conferences (MSEC), respectively. He has served on the editorial boards of several journals, including *ASME Journal of Manufacturing Science and Engineering*, *Computer-aided Design*, *ASME Journal of Computing and Information Science in Engineering*, *Virtual and Physical Prototyping*, *Manufacturing Letters*, *Journal of Intelligent Manufacturing*, and *International Journal of Precision Engineering and Manufacturing*.

At USC, Dr. Chen teaches design and manufacturing-related courses to students. Eight Ph.D. students and post-doctors from his group have landed faculty positions in North American Universities, and two have landed faculty positions in Asian Universities. He also helped six Ph.D. students and two research collaborators to create four start-up companies related to 3D printing (*SprintRay*, *InBrace*, *3DEO,* and *ZSFab*). These four companies have received over $350 million from venture capital funds (refer to *cruchbase.com*).