



2025 CIRP Annals' Keynote papers

STC A

Human-centric assembly in smart factories - Lihui Wang (1), Robert X Gao (1), Jörg Krüger (1), József Váncza (1)

STC C

Revisiting machinability assessment: Towards total machining performance - I.S. Jawahir (1), Helmi Attia (1), Martin Dix (3), Hassan Ghadbeigi, Zhirong Liao (2), Julius Schoop, Alborz Shokrani (2)

STC Dn

Developing and Leveraging Digital Twins in Engineering Design - Nabil Anwer (1), Rainer Stark (1), Fei Tao (2), John Ahmet Erkoyuncu (2)

STC E

Metal Multi-Material Additive Manufacturing: Overcoming Barriers to Implementation - Adam Thomas Clare (1), Peer Woizeschke, Behzad Rankouhi, Frank Pfefferkorn (1), Dominic Bartels, Michael Schmidt (1), Wessel Wits (2)

STC F

Cut the scrap: making more use of less metal - Julian Mark Allwood (1), Omer Music, Evripides G Loukaides, Markus Bambach (2)

STC G

Advances in Magnetic Field-Assisted Finishing - Hitomi Yamaguchi (1), Fukuo Hashimoto (1), Eraldo da Silva (2), Chi Fai Cheung (1)

STC M

Fixtures and workpiece clamping systems in machining - Hans-Christian Moehring (2), Dirk Biermann (1), Friedrich Bleicher (1), Shreyes Melkote (1), Gregor Kappmeyer (3)

STC O

Future-Proof Production Scheduling and Control - Marcello Urgo (2), Gisela Lanza (1), Rok Vrabic (2), David Gyulai

STC P

Dimensional metrology based on ultrashort pulse laser and optical frequency comb - Wei Gao (1), Seung-Woo Kim (1), Harald Bosse (3), Kaoru Minoshima

STC S

Surface finishing by shape-adaptive processes - Jiwang Yan (1), Brigid Mullany (1), Anthony Beaucamp (2), Daniel Meyer (2), Naohiko Sugita (1)

Cross-STC

Production Technologies and Systems for Electric Mobility - Jürgen Fleischer (1), Darek Ceglarek (1), Jörg Franke (2), Christoph Herrmann (2)