2026 CIRP Annals' Keynote papers

STC A

Decarbonisation of Manufacturing towards Net Zero - Sebastian Thiede (2), Christoph Herrmann (1), Sami Kara (1), Michael Hauschild (1)

STC C

Part distortion in machining: prediction, measurement, and control – Jose Outeiro (1), Pedro-Jose Arrazola (1), Ismail Lazoglu (1), Jens Sölter (3), Aitor Madariaga

STC E

Laser-based manufacturing for the electric powertrain – Leonardo Orazi (2), Alessandro Fortunato (3), Alessandro Ascari (3), Pasquale Franciosa, Ali Gokhan Demir, Darek Ceglarek (1), Lin Li (1)

STC F

Shear-dominated processes in sheet metal forming – Wolfram Volk (1), Mathias Liewald (2), David Abedul, Junhe Lian, Christoph Hartmann

STC G

Abrasive finishing of additively manufactured components – Jan Christian Aurich (1), Peter Krajnik (1), Hitomi Yamaguchi (1), Eraldo Da Silva (2), Jacques Platz

STC M

Digital Twins for Machine Tools - Alexander Wilhelm Verl (2), Steffen Ihlenfeldt (2), Chinedum Okwudire (2), Erdem Ozturk (2), Anna Valente (1), Michael F. Zaeh (1)

STC O

Digitally enhanced maintenance: path towards continuous value creation and sustainability - John Ahmet Erkoyuncu (2), Fazel Ansari (2), Benoit Iung (1), Shozo Takata (1)

STC P

Machine Learning for Metrology in Manufacturing – Robert Schmitt (1), Wim Dewulf (1), Hans Hansen (1), Yang Zhang (2), Benjamin Montavon, Florian Stamer

STC S

Manufacturing of structured surfaces for tissue engineering and regenerative medicine – Giovanni Lucchetta (2), Fengzhou Fang (1), Weiguang Wang (2), Enrico Savio (1)

Cross-STC

Innovations in advanced processes and systems for semiconductor manufacturing – Albert Shih (1), Wei Gao (1), Greg Vogl (2), Dragan Djurdjanovic (2), Takafumi Fukushima, Ajay Malshe (1)