

Session Program

19-22 Jun 2023



42nd International Deep Drawing Research Group Conference - IDDRG 2023

SPRINGBACK, SHAPE ACCURACY, GEOMETRY ASSURANCE, AND SURFACE QUALITY

House of Culture, Luleå, Sweden
Skeppsbrogatan 17, 972 31 Luleå, Sweden

Wednesday 21 June

09:30

SPRINGBACK, SHAPE ACCURACY, GEOMETRY ASSURANCE, AND SURFACE QUALITY

Session | **Location:** Kulturens hus Luleå, 1. Lilla Salen | **Convener:** Shi-Hong Zhang

09:30–09:50

Impact of the process velocities on the quality of free-form bent parts

Speaker

Lorenzo Scandola

09:50–10:10

Study of the Influence of part features of AHSS A-pillar on springback and its robustness

Speaker

Chao Niu

10:10

10:40

SPRINGBACK, SHAPE ACCURACY, GEOMETRY ASSURANCE, AND SURFACE QUALITY

Session | **Location:** Kulturens hus Luleå, 1. Lilla Salen | **Convener:** Zsolt Lukacs

10:40–11:00

Process optimization and robustness analysis for HFQ process using AutoForm-Sigma

Speaker

Dr Mohamed Mohamed

11:00–11:20

Measurement of skid line formation and formation mechanism of automotive outer panel

Speaker

Mr Yasuhiro Kishigami

11:20–11:40

Effect of strain mode and blank orientation on waviness and its potential improvement in paint appearance of automotive outer panels

Speaker

Dr Yuguo An

11:40–12:00

Experimental investigation of the effect of W-temper forming process parameters on springback

Speaker

Mr Jemal Ebrahim Dessie

12:00–12:20

Influence of process and material parameters on the twist springback prediction of a panel

Speaker

Prof. Marta C- Oliveira

12:20

13:20

SPRINGBACK, SHAPE ACCURACY, GEOMETRY ASSURANCE, AND SURFACE QUALITY**Session** | **Location:** Kulturens hus Luleå, 1. Lilla Salen | **Convener:** Mats Sigvant**13:20-13:40****Deformation Prediction of Titanium Alloy in Incremental Sheet Forming with Anisotropic and Asymmetric Yield Function****Speaker**

Minki Kim

13:40-14:00**Artificial intelligence-based springback compensation of EV motor component****Speaker**

Hyunsung Choi

14:00-14:20**Formed developables - a new class of sheet metal parts****Speaker**

Mr Jeet Bhuvra

14:20