Model Based Control for Smart Forming Processes

Program

12 October

8:00	**Registration / Welcome drinks**
8:30	Opening (Ton van den Boogaard)
8:40	*Smart Change in the Making; Transforming Forming with Control* , **Ravi Venugopal**
9:20	*Model based control of product properties in metal processing: Challenges and opportunities* , **Stephen Duncan**
10:00	**Coffee**
10:30	*Product-to-product state estimation for metal forming mass production* , **J. Havinga**, A.H. van den Boogaard
11:00	*Approaches for control in deep drawing* , **P. Fischer**, D. Harsch, J. Heingärtner, Y. Renkci and P. Hora
11:30	*Physical model based digital twins in manufacturing processes* , **J. Post**, M. Groen, G. Klaseboer
12:00	*Influence of the elastic behaviour of a moving bolster on punch active surface: a numerical investigation* , **F. Zgoll**, T. Götze and W. Volk
12:30	**Lunch**
13:50	*Chances and limitations of in-line measurement for automotive press shops* , **Wolfram Volk**
14:30	*Recent developments in modelling for on-line setup and control* , **Camile Hol**
15:00	*Physics-based simulation of laser assisted tape winding for online process control* , **A. Zaami**, I. Baran, R. Akkerman
15:30	**Coffee**
16:00	*Systematic drawbead design for optimal process control* , B. Carleer, **I. Burchitz** and M. Stippak
16:30	*New bending process with superposition of radial stresses for damage control* , **R. Meya**, C. Löbbe, O. Hering and A. E. Tekkaya
17:00	*Developments in process modeling for strip steering in hot strip rolling* , **Leo Kampmeijer**
17:30	*Experiences with the q-guard in-line control system in production* , **J. Heingärtner**, P. Fischer, D. Harsch, Y. Rencki and P. Hora
19:00	**Conference Banquet**

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8:00	**Registration / Welcome drinks**
8:40	*Four steps towards fully automated forming processes* , **Peter Groche**
9:20	*Future needs in the development of FEM in combination with in-line process control* , **Pavel Hora**
10:00	**Coffee**
10:30	*Influence of scattering material properties on the robustness of deep drawing processes* , **D. Harsch**, J. Heingärtner, Y. Renkci and P. Hora
11:00	*Closed feedback loop process control approaches and sensor evaluation for deep drawing tools with integrated piezoelectric actuators* , **T. Bäume**, W. Zorn, W. Drossel
11:30	*Verification of a closed loop control for deep drawing process* , **M. Barthau**, M. Liewald and C. Held
12:00	*Deepdrawing process control using active drawbeads* , **C. Maier**, V. Paunoiu, A. Epureanu
12:30	**Lunch**
13:50	*On feedback control of stamping and deep drawing operations* , **Benny Endelt**
14:30	*Data-driven inline optimization of the manufacturing process of car body parts* , **S. Purr**, A. Wendt, J. Meinhardt, K. Mölzl, A. Werner, H. Hagenah and M. Merklein
15:00	*Augmented reality (ar) technology for the purpose of sheet metal forming simulation evaluation* , **M. Lechner**, R. Schulte, S. Meckler and M. Merklein
15:30	**Coffee and closure**