Tentative Program

	Sunday, Oct. 19	Monday, Oct. 20	Tuesday, Oct. 21	Wednesday, Oct. 22	Thursday, Oct. 23	Friday, Oct. 24
Morning		8:30-: Registration	8:30-: Registration	8:30-: Registration	8:30-: Registration	Technical tours
		9:00-10:30: Plenary, opening and keynote k1, k2	9:00-10:00: Plenary, keynote k3, k4	9:00-10:00: Plenary, keynote k5, k6	9:00-10:00: Plenary, keynote k7, k8	
Afternoon	14:00-: Registration	11:00-12:40: sh(1-5), fo(1-5), ro(1-5), ma(1-5), s3(0-3), s1(0-3), s2(0-3) 12:40-14:00: Lunch 14:00-16:00: sh(6-11), fo(6-11), ro(6-11), ma(6-11), s3(4-9), s1(4-9), s2(4-9) 16:30-18:30: sh(12-17), fo(12-17), ro(12-17), ma(12-17), s3(10-15), s1(10-15), s2(10-15)	10:30-12:30: sh(18-23), fo(18-23), ro(18-23), ma(18-23), s3(16-21), s1(16-21), s2(16-21) 12:30-14:00: Lunch 14:00-16:40: sh(24-31), fo(24-31), ro(24-31), ma(24-32), s3(22-30), dr(1-7), s2(22-29)	10:30-12:30: sh(32-37), fo(32-37), ro(32-37), ma(33-38), s6(0-4), s4(0-5), ca(1-6) 12:30-14:00: Lunch 14:00-16:00: sh(38-43), fo(38-41), ro (38-43), s5(0-4), s6(5-10), s4(6-11), ca(7-12) 16:30-18:30: sh(44-49), ex(1-6), po(1-6), s5(5-10), s6(11-16), s4(12-18), fr(1-6)	10:30-12:30: sh(50-55), ex(7-12), mi(1-6), s5(11-16), se(1-6), pr(1-6), s7(1-5) 12:30-14:00: Lunch 14:00-16:40: sh(56-62), ex(13-15), mi(7-12), s5(17-20), se(7-11), sp(1-5)	
	SAB/ICTP					
Evening	18:00-20:00 Welcome reception		19:00-21:30 Banquet		19:00-21:00 Farewell party	

* session (7 rooms); ca: casting, dr: drawing, ex: extrusion, fo: forging, fr: FRP, ma: material modelling, po: powder forming, pr: presses, ro: rolling, s1: Hot stamping, s2: Process tribology, s3: Joining by plastic deformation, s4: Advanced tube forming, s5: Incremental forming, s6: Finite element simulation, s7: Control of metal forming processes, se: shearing, sh: sheet metal forming, sp: severe plastic deformation
* Presentation time: 20 mim. including discussion

No.	Session	Authors	Title
	k1	T.Takami	Production engineering strategies and metalworking at Toyota Motor Corporation
	k2	G. Hirt	Selected processes and modeling techniques for rolled
	k3	A.E. Tekkaya	Forming of lightweight metal components: Need for new technologies
	k4	J. Yanagimoto	Numerical analysis for microstructure control in hot forming process
	k5	H. Yang	Some advances in plastic forming technologies of titanium
	k6	M. Amino	Current status of "Dieless" Amino's incremental forming
	k7	C.G. Kang	Semisolid forming of thin plates with microscale features
	k8	F. Micari	Friction stir welding as an effective alternative technique for light structural alloys mixed joints
239	ca-01	Yang Wang, Yunbo Xu, Yuanxiang Zhang, Zuyi He, Songjian Fu, Yongmei Yu, Guodong Wang	Characterization of initial structures, texture and precipitates in strip-cast 3wt%Si steel sheet
251	ca-02	Markus Daamen, Wiebke Nessen, Philipp T. Pinard, Silvia Richter, Alexander Schwedt, Gerhard Hirt	Deformation behavior of high-manganese TWIP steels produced by twin-roll strip casting
275	ca-03	Mykhailo Stolbchenko, Olexandr Grydin, Florian Nuernberger, Andrii Samsonenko, Mirko Schaper	Sandwich rolling of twin-roll cast aluminium-steel clad strips
456	ca-04	Yun-Soo Lee, Hyoung-Wook Kim, Jae-Hyung Cho	Effect of casting parameters on roll separation force during twin roll casting
495	ca-05	Kristina Neh, Madlen Ullmann, Rudolf Kawalla	Twin-Roll-Casting and hot rolling of magnesium alloy WE43
496	ca-06	Madlen Ullmann, Matthias Schmidtchen, Marcel Graf, Rudolf	Metadynamic recrystallization kinetics of twin roll cast AZ31 alloy during hot deformation
132	ca-07	Jinlong Fu, Kaikun Wang	Modelling and simulation of die casting process for A356 semi-solid alloy
143	ca-08	Yi Meng, Sumio Sugiyama, Jun Yanagimoto	Refinement of cast Cr-V-Mo steel by using recrystallization and partial melting method and post heat treatments
537	ca-09	Lehua Qi, Luyan Ju, Jiming Zhou	Tensile properties of 2D-Cf/Mg composite fabricated by liquid-solid extrusion following vacuum pressure infiltration
297	ca-10	Songyi Zhong, Lehua Qi, Yong Tang, Jun Luo	Development and experimental research of aluminium alloy droplet generator based on mechanical vibration
299	ca-11	Heiko Brüning, Marcel Teepe, Frank Vollertsen	Surface roughness and size effect in dendrite arm spacing at preforms of AISI 304 (1.4301) generated by laser rod end
135	ca-12	Ken-ichiro Mori, Tomoyoshi Maeno, Yuki Nakagawa	Dieless forming of carbon fibre reinforced plastic parts using 3D printer
567	dr-01	Alexey Korchunov, Gennadiy Gun, Marina Polyakova	Recovery effect in drawing of steel bar for sizing
52	dr-02	Ho Seon Joo, Sun Kwang Hwang, Hyun Moo Baek, Yong-Taek Im, Il-Heon Son, Chul Min Bae	Manufacturing of medium carbon steel wires with improved spheroidization by non-circular drawing sequence
461	dr-03	Jinn-Jong Sheu, Su-Yi Lin, Cheng-Hsien Yu	Optimum die design for single pass steel tube drawing with large strain deformation
281	dr-04	Gregory Gerstein, Florian Nü rnberger, Włodzimierz Dudzinski, Dominika Grygier, Mirko Schaper,	Structural evolution of thin lamellar cementite during cold drawing of eutectoid steels
192	dr-05	Tsuyoshi Furushima, Yusuke Imagawa, Shusaku Furusawa, Ken-	Deformation profile in rotary laser dieless drawing process for metal microtubes
225	dr-06	Kazunari Yoshida, Kota Doi	Improvement of ductility of aluminum wire for automotive wiring harness by alternate drawing
151	ex-01	Vidal Sanabria, Soeren Mueller, Walter Reimers	Microstructure evolution of friction boundary layer during extrusion of AA 6060
255	ex-02	Yichuan Shao, Tao Tang, Weiqing Tang, Dayong Li	Modeling of extrusion texture of AZ31 magnesium alloy with consideration of dynamic recrystallization

503	ex-03	Shanglei Yang, Dongmei Zhang, Wenhai Tuo, Zhishui Yu	Microstructures and properties of extruded Al-0.6Mg-0.6Si aluminium alloy for high-speed vehicle
215	ex-04	Sergei Alexandrov, Daria Grabko, Nguyen Minh Tuan	Approach for predicting formation of fine grain layers in metal forming
331	ex-05	Cheng-jie Li, Hong-fei Sun, Wen-bin Fang	Effect of extrusion temperatures on microstructures and mechanical properties of Mg-3Zn-0.2Ca-0.5Y alloy
136	ex-06	Zhi-Lei Wang, Kenji Matsuoka, Takehiro Araki, Takahiro Akao, Tetsuhiko Onda, Zhong-Chun Chen	Extrusion behavior and thermoelectric properties of Bi2Te2.85Se0.15 thermoelectric materials
309	ex-07	Quang-Cherng Hsu, Yu-Liang Chen, Tsung-Hsien Lee	Non-symmetric hollow extrusion of high strength 7075 aluminum alloy
440	ex-08	Ding Tang, Wenli Fang, Xiaohui Fan, Dayong Li, Yinghong Peng	Effect of die design in microchannel tube extrusion
457	ex-09	Chunguo Xu, Guangsheng Ren, Yongqiang Guo, Weiwei Ren, Ya	Tube necking extrusion principle and forming process of trailer rear axle
107	ex-10	Taro Yagita, Takashi Kuboki, Makoto Murata	Formability improvement by die-bearing grooves in tube extrusion with spiral inner projections
396	ex-11	Bing Li, Qi Wei, Jiu-yang Pei, Ying	Flow characteristics of brass rod during continuous extrusion
165	ex-12	Matthias Haase, A. Erman Tekkaya	Recycling of aluminum chips by hot extrusion with subsequent cold extrusion
437	ex-13	Nabeel Alharthi, Sedat Bingöl, Anthony Ventura, Wojciech	Analysis of extrusion welding in magnesium alloys – numerical predictions and metallurgical verification
228	ex-14	Masanori Shiomi, Tomohiro Fukaya	Forming of aluminum foams by using rotating mold
505	ex-15	Wei Guo, Huajie Mao, Bei Li, Xiangyu Guo	Influence of processing parameters on molding process in microcellular injection molding
226	fo-01	Kiichiro Kawamoto, Takeshi Yoneyama, Masato Okada, Satoshi Kitayama, Junpei Chikahisa	Optimum back-pressure forging using servo die cushion
9	fo-02	Thorben Schiemann, Mathias Liewald, Claudius Beiermeister,	Influence of process chain on fold formation during flange upsetting of tubular cold forged parts
337	fo-03	Ayato Mizuno, Takashi Nomura, Kazuhiko Kitamura, Keiichi	Influence of forming conditions on loads in split-forging
22	fo-04	Takahiro Ishiguro, Eiji Abe, Nobuki Yukawa, Takashi Ishikawa	Mechanism of crack initiation and propagation in single-side piercing process for hollow forged parts
342	fo-05	Masaharu Usami, Tetsuo Oya	Estimation of work-hardening curve for large strain using friction-free compression test
6	fo-06	Yasuhiro Yogo, Masatoshi Sawamura, Masafumi Hosoya, Michiaki Kamiyama, Noritoshi	Measurement of flow stress for pure aluminum up to 10 in strain
546	fo-07	Wenzheng Dong, Qiquan Lin, Yantao Li, Zhigang Wang	Analytical and FEM investigations on boss forming process by compression-drawing method
543	fo-08	Zhigang Wang, Yasuharu Yoshikawa	A new forming method of triple cup by plate forging
334	fo-09	Kenji Hirota, Kota Michitsuji	Deformation behaviour in boss forming by sheet extrusion
212	fo-10	Daniel Gröbel, Johannes Koch, Hans Ulrich Vierzigmann, Ulf Engel, Marion Merklein	Investigations and approaches on material flow of non-uniform arranged cavities in sheet bulk metal forming processes
99	fo-11	Atsuahi Danno, Sebastian Berner, Kai Soon Fong, Wai Tang Yap	Multi-stage cold forging of thin-walled components
104	fo-12	Atsushi Maeda, Yingjun Jin, Takashi Kuboki	Method of reducing residual stress generated by laser cutting by light indentation of sheet metal edge
78	fo-13	Motoki Terano, Kazuhiko Kitamura, Shusaku Miyata, Masahiko Yoshino	Distribution of plastic anisotropy in thickness direction for plate
512	fo-14	Atsuo Watanabe, Shinichirou Fujikawa, Akihiko Ikeda, Noriyuki	Prediction of ductile fracture in cold forging
148	fo-15	Masahito Matsui, Kouhei Toda, Kenichi Murai, Yuichi Nakamura	Generation of super smooth surface in compression test
87	fo-16	Konstantin Solomonov	Development of software for simulation of forming forgings

562	fo-17	Takehiko Makino, Toshinari Michimoto, Shinpei Moriyama,	Contact potential difference measurement of adhesion process during micro/meso-scale injection upsetting
58	fo-18	Zeng Qi, Jiang Peng, Ren Xueping	Forging force analysis of truck knuckle and selection of forging equipment
295	fo-19	Fu-qiang Yang, Ren-bo Song, Lei-feng Zhang, Chao Zhao	Hot deformation behavior of Fe-Mn-Al light-weight steel
248	fo-20	Johannes Lohmar, Markus Bambach, Gerhard Hirt	Comparison of semi-empirical and dislocation density basedmaterial equations for fast modelingof multistage hot working of steel
487	fo-21	Hyung-Won Park, Jun Yanagimoto	Formation and mechanical properties of bimodal microstructures in 0.2% carbon steel by heavy-reduction
48	fo-22	Yanjin Guan, Xue Bai, Mujuan Liu, Guoqun Zhao	3D Preform design in forging process based on quasi-quipotential field and response surface methods
526	fo-23	Hideki Kakimoto, Takefumi Arikawa	Prediction of surface crack in hot forging by numerical
531	fo-24	Takefumi Arikawa, Daisuke Yamabe, Hideki Kakimoto	Influence of anvil shape of surface crack generation in large hot forging process
30	fo-25	Fei Chen, Guowei Feng, Zhenshan Cui	Mathematical modeling of critical condition for dynamic recrystallization
175	fo-26	Nobuki Yukawa, Yoshihiro Nakashima, Takahiro Ishiguro, Eiji Abe, T. Ishikawa, Takashi Choda	Modeling of heat transfer coefficient of oxide scale in hot forging
92	fo-27	Andrzej Milenin, Tomasz Rec, Wojciech Walczyk, Maciej Pietrzyk	Model of curvature of crankshaft blank during the heat treatment after forging
305	fo-28	Richard Ducloux	Improvement of part or tooling life prediction through simulation of whole manufacturing process
75	fo-29	Shingo Sakurai, Takuma Okajima, Masanao Fujiwara, Takuji Otake, Takashi Ishikawa	Development of precise load prediction system for free forging of Ni-based superalloy having softening
422	fo-30	Antonino Ducato, Gianluca Buffa, Livan Fratini, Rajiv Shivpuri	Influence of geometrical ratios in forgeability of complex shapes during hot forging of Ti-6Al-4V titanium alloy
402	fo-31	XiaoGuang Fan, He Yang, PengFei Gao	Microstructure control in local loading forming of large-scale complex titanium alloy component
16	fo-32	Pengfei Gao, He Yang, Xiaoguang Fan, Penghui Lei, Miao Meng	Prediction of folding defect in transitional region during local loading forming of titanium alloy large-scale rib-web
49	fo-33	Hiromi Miura, Wataru Nakamura, Masakazu Kobayashi	Room-temperature multi-directional forging of AZ80Mg alloy to induce ultrafine grained structure and specific mechanical
67	fo-34	Carolin Binotsch, Daniela Nickel, Andreas Feuerhack, Birgit Awiszus	Forging of Al-Mg compounds and characterization of interface
494	fo-35	Marcel Graf, Madlen Ullmann, Rudolf Kawalla	Influence of initial state on forgeability and microstructure development of magnesium alloys
449	fo-36	Guang-Sheng Song, Qiang-Qiang Chen, Shi-Hong Zhang, Yong Xu	Quantitative analysis on contribution of extension twinning to plastic deformation of Mg alloy by in-situ tracking on grains
21	fo-37	Jiansheng Zhang, Daoxiang Wu, Jie Zhou, Jing Wang	Multi-objective optimization of process parameters for 7050 aluminum alloy rib-web forgings' precise forming based on Taguchi method
510	fo-38	Isao Takekoshi, Yuji Kume, Makoto Kobashi, Naoyuki Kanetake	Deformation behavior in die forging of aluminum foam sandwich
262	fo-39	Andrzej Rosochowski, Malgorzata Rosochowska, Lech Olejnik	A method of forming oblique rings
106	fo-40	Tsubasa Tsubouchi, Kazuhito Takahashi, Takashi Kuboki	Development of coiled springs with high rectangular ratio in cross-section
436	fo-41	Tsunehisa Miki, Masako Seki, Soichi Tanaka, Nobuo Sobue, Ichinori Shigematsu, Kozo Kanayama	Preparation of wood plastic composite sheets by lateral extrusion of solid woods using their fluidity
280	fr-01	Jens Wulfsberg, Axel Herrmann, Gerhard Ziegmann, Georg Lonsdorfer, Nicole Stöß, Marc Fette	Combination of carbon fibre sheet moulding compound and prepreg compression moulding in aerospace industry

349	fr-02	Bernd-Arno Behrens, Sven Hübner, André Neumann	Forming sheets of metal and fibre-reinforced plastics to hybrid parts in one deep drawing process
392	fr-03	Shoji Hineno, Takeshi Yoneyama, Daichi Tatsuno, Masaki Kimura, Keisuke Shiozaki, Takashi Moriyasu, Masayuki Okamoto, Shigenori	Fiber deformation behavior during press forming of rectangle cup by using plane weave carbon fiber reinforced thermoplastic sheet
504	fr-04	Sachihiro Isogawa, Hidenori Aoki, Mashiro Tejima	Isothermal forming of CFRTP sheet by penetration of hemispherical punch
201	fr-05	Min-Sik Lee, Sung-Jin Kim, Ok-Dong Lim, Chung-Gil Kang	Effect of process parameters on epoxy flow behavior and formability with CR340/CFRP composites by different laminating in deep drawing process
552	fr-06	Yu Uriya, Katsuyoshi Ikeuchi, Jun Yanagimoto	Cold and warm V-bending test for carbon-fiber-reinforced plastic sheet
40	ma-01	Siliang Yan, He Yang, Hongwei Li, Xuan Yao	Microstructure evolution and flow localization characteristics of 5A06 alloy in high strain rate forming process
100	ma-02	Wenjiao Dan, Weigang Zhang, Fei	Constitutive model for multi-phase high strength steels
385	ma-03	Tetsuo Oya, Jun Yanagimoto, Koichi Ito, Gen Uemura, Naomichi Mori	Material model based on non-associated flow rule with higher-order yield function for anisotropic metals
404	ma-04	Fusahito Yoshida, Hiroshi Hamasaki, Takeshi Uemori	A model of anisotropy evolution of sheet metals
489	ma-05	Davoud Jafarlou, Mohsen Hassan, Noor Azizi Mardi, Erfan Zalnezhad	Influence of temper rolling on tensile property of low carbon steel sheets by application of Hill 48 anisotropic yield criterion
570	ma-06	Juan Liao, Xin Xue, Frederic Barlat, Jose Gracio	Material modelling and springback analysis for multi-stage rotary draw bending of thin-walled tube using homogeneous anisotropic hardening model
424	ma-07	Zhenming Yue, Houssem Badreddine, Khemais Saanouni	A new model describing plastic distortion fully coupled with ductile damage
530	ma-08	Tommaso Coppola, Filippo Dionisi Vici, Arianna Gotti, Luigi Langellotto, Sandro	Plastic deformation and metallurgical evolution modelling for defects reduction and quality optimization
384	ma-09	Tomoyuki Hakoyama, Toshihiko Kuwabara	Forming limit analyses of cold rolled IF steel sheet using differential work hardening model
54	ma-10	Dyi-Cheng Chen, Ci-Syong You, Fu-Yuan Gao	Analysis and experiment of 7075 aluminum alloy tensile test
547	ma-11	Qiquan Lin, Wenzheng Dong, Yantao Li, Hui Zhangb, Zhigang	Microstructure simulation of 2519 aluminum alloy in multi-pass hot compression process
312	ma-12	Martin Schwane, Teresa Citrea, Christoph Dahnke, Matthias Haase, Nooman Ben Khalifa, A. Erman Tekkaya	Simulation of composite hot extrusion with high reinforcing volumes
439	ma-13	Jing-Yuan Li, Fei Fang, Di-Xuan Su, Shuai Zhang, Yu-Lai Chen	Formability of Sn-containing ferrite stainless steel sheet
83	ma-14	Yanhong Xiao, Zhenshan Cui, Hongbin Yin, Cheng Guo	High temperature deformation behavior and constitutive modelling for 05Cr17Ni4Cu4Nb stainless steel
32	ma-15	Chao-lei Zhang, Xiang Liu, Le-yu Zhou, Ya-zheng Liu	Influence of pearlite interlamellar spacing on strain hardening behaviour in spring steel 60Si2MnA
566	ma-16	Sam Coppietersa, Kazuhiro Ichikawa, Toshihiko Kuwabara	Identification of strain hardening phenomena in sheet metal at large plastic strains
330	ma-17	Dongdong Li, Masayoshi Akiyama	Features of unloading and re-loading processes of medium carbon steel after uniaxial plastic strain
166	ma-18	Marina Borodachenkova,Wei Wen, Frédéric Barlat, António Pereira, José	Numerical simulation of the mechanical response during strain path change: application to Zn alloys
488	ma-19	Mohamed Soliman, Heinz Palkowski	Microstructure development and mechanical properties of medium carbon carbide-free bainite steels
294	ma-20	Jun Luo, Fang Yang, Songyi Zhong, Lehua Qi	Modelling of uniform micron-sized metal particles production using harmonic mechanical excitation

397	ma-21	Philip Eyckens, Albert Van Bael, Jaap Moerman, Henk Vegter, Paul Van Houtte	Prediction of transient hardening after strain path change by a multi-scale crystal plasticity model with anisotropic grain substructure
316	ma-22	Yuji Hirosawa, Motoki Terano, Masahiko Yoshino	Influence of repeated shear strain on recrystallization of iron sheet
101	ma-23	Fei Liu, Weigang Zhang, Wenjiao Dan	Stress-strain response for twinning-induced plasticity steel with temperature
142	ma-24	Junya Kobayashi, Hiroki Tonegawa, Koh-ichi Sugimoto	Cold formability of 22SiMnCrB TRIP-aided martensitic sheet steel
317	ma-25	Shintaro Yabe, Motoki Terano, Masahiko Yoshino	Plane strain compression test and simple shear test of single crystal pure iron
18	ma-26	Natalia Konchakova, Swantje Bargmann	Application of gradient crystal plasticity model to the numerical analysis of metal part of nanoporous metal -
90	ma-27	Jiming Zhou, Zhe Chen, Lehua Qi	Plastic micromechanical response of 2D cross ply magnesium matrix composites
254	ma-28	Lisa Scheunemann, Jörg Schröder, Daniel Balzani, Dominik Brands	Construction of statistically similar representative volume elements – comparative study regarding different statistical
343	ma-29	Thipwipa Sirinakorn, Vitoon Uthaisangsuk, Sompong	Microstructure based description of deformation behavior of dual phase steel sheets
410	ma-30	Ryoji Kishi, Keiko Natori, Yoshihiko Arao, Tatsuya Tanaka	Influence of mesostructure for deformation characteristics and formability in Dual Phase steels
283	ma-31	Amir Hassannejadasl, Taamjeed Rahmaan, Daniel E. Green, Sergey F. Golovashchenko, Michael J.	Prediction of DP600 flow surfaces at various strain-rates using Yld2004-18p yield function
380	ma-32	Sheng Huang, ChunFeng He, Yixi Zhao, Shuhui Li, Zhongqi Yu, Liang	Uniaxial tension simulation using real microstructure-based representative volume elements model of dual phase steel plate
260	ma-33	Jörg Schröder, Ashutosh Gandhi, Daniel Balzani	Two-scale modeling of DP steel incorporating distributed properties inside micro-constituents
217	ma-34	Seijiro Maki, Takashi Yamamoto	Computer simulation of micro rebound hardness test
249	ma-35	Ninshu Ma, Kenji Takada, Kentaro Sato	Measurement of local strain path and identification of ductile damage limit based on simple tensile test
465	ma-36	Masakazu Kobayashi, Yuuki Kawamura, Soutaro Ueno, Hiroyuki Toda, Hiromi Miura	Measurement of local plastic deformation in aluminum alloy by means of X-ray 3D imaging technique
319	ma-37	Mitsuhiko Sano, Kazuhiro Ohara, Naoki Shimoda, Masashi Tsugeno	Measurement of material properties of steel sheets using laser ultrasonic technology
399	ma-38	Yingying Zong, Daosheng Wen, Wenchen Xu, Danmei Yang, Debin Shan, Zuyan Liu	Effects of hydrogen on softening mechanism of Ti-45Al-5Nb-0.8Mo-0.3Y alloy deformed at high temperatures
35	mi-01	Tatstuhiko Aizawa, Masahiro Tamaki, Tatsuya Fukuda	Large area micro-texture imprinting onto metallic sheet via CNC stamping
539	mi-02	Fujio Tsumori, Yang Xu, Yuki Tanaka, Toshiko Osada, Hideshi	Micrometer-scale imprinting process for ceramic sheet from powder compound material
200	mi-03	Chul Kyu Jin, Min Geun Jeong, Chung Gil Kang	Effect of rubber forming process parameters on micro-patterning of thin metallic plates
84	mi-04	Rasoul Mahshid, Hans Nørgaard Hansen, Mogens Arentoft	Towards mass production by high performance transfer press in micro bulk forming
24	mi-05	Muhammad Taureza, Sylvie Castagne, Tegoeh Tjahjowidodo,	Strain rate dependent flow stress characterization using piezo-actuated micropress
157	mi-06	Feng Gong, Qiang Chen, Zhi Yang, Dayu Shu, Shun Zhang	Micro deep drawing of C1100 conical-cylindrical cups
509	mi-07	Hideki Sato, Ken-ichi Manabe, Daiki Kondo, Dongbin Wei, Zhengyi Jiang	Formability of micro sheet hydroforming of ultra-fine grained stainless steel

193	mi-08	Takayuki Ueno, Motoki Terano, Masahiko Yoshino	Templated thermal dewetting process by utilizing nano plastic forming technology
141	mi-09	Yang Bai, Ming Yang	Influence of ultrasonic vibration on metal foils surface finishing with micro-forging
352	mi-10	Qiu Zheng, Tatsuya Aoyama, Tetsuhide Shimizu, Ming Yang	Experimental and numerical analysis of springback behavior under elevated temperatures in micro bending assisted by resistance heating
191	mi-11	Chen Yang, Peng Li, Li Xia Fan	Blank shape design for sheet metal forming based on geometrical resemblance
328	mi-12	Yasunori Harada, Syusei Tanaka, Manabu Itoh, Masanori Nakatani	Effect of microshot peening on fatigue life of spring steel SUP9
378	po-01	Noboru Nakayama, Masaomi Horita, Shota Sakagami, Hiroyuki Miki, Takamichi Miyazaki, Hiroyuku	Effect of powder shape and size on mechanical properties of Al thin plate formed by compression shearing method at room temperature
511	po-02	Wataru Kimura, Yuji Kume, Makoto Kobashi, Naoyuki Kanetake	Consolidation of Cr-Cu/Cu powder laminated material by compressive torsion processing
513	po-03	Suguru Kondo, Yuji Kume, Makoto Kobashi, Naoyuki Kanetake	Densification behavior of different metal powders by compression and shear combined loading
572	po-04	Wooyeol Kim, Dong-Hyun Ahn, Lee Ju Park, Hyoung Seop Kim	Finite element simulation of powder compaction via shock consolidation using gas-gun system
393	po-05	Shohei Kajikawa, Takashi Iizuka	Injection molding using only 200 °C steamed bamboo powder by controlling metal mold temperature
522	po-06	Wenjun Ge, Chao Guo, Feng Lin	Effect of process parameters on microstructure of TiAl alloy produced by electron beam selective melting
26	pr-01	Ye-jian Li, Yu Sun, Shuan-hu Wang	Dimensional synthesis for multi-linkage of high-speed mechanical press
31	pr-02	Hao Chen, Yu Sun, Kai Wu	Load spectrum testing and analysis for transmission system of closed high-speed press
44	pr-03	Fengfeng Hu, Yu Sun, Binbin Peng	Dynamic characteristics analysis and experimental verification of high-speed precision punch press based on coupled thermal-mechanical model
45	pr-04	Yu Chen, Yu Sun, Wuxue Ding	Thermo-mechanical coupling model and dynamical characteristics of press actuator
214	pr-05	Weiwei Zhang, Xiaosong Wang, Zongren Wang, Shijian Yuan	Structural optimization of cylinder-crown integrated hydraulic press with hemispherical hydraulic cylinder
549	pr-06	Kazuhiro Ichikawa, Chikara Murata, Tatsuya Takahasi	Visualization of forming of 4-Axes direct drive digital servo press
203	ro-01	Liqing Chen, Jianguo Huang, Yang Zhao, Hongshuang Di, Fuxian Zhu	Processing, microstructures and mechanical properties of ultra-high strength steel sheet
3	ro-02	Kuldeep Agarwal, Rajiv Shivpuri, Venugopal Bonthapally	Process-structure-microstructure relationship in hot strip rolling of steels using statistical data mining
172	ro-03	Hailiang Yu, Kiet Tieu, Cheng Lu	Advanced rolling technologies for producing ultrafine-grain/nanostructured alloys
150	ro-04	Hideaki Furumoto, Shinya Kanemori, Kanji Hayashi, Akira Sako, Tadashi Hiura, Hideki Tonaka, Sun Dale, Fan Qun, Wang Fuchen	Enhancing technologies of stabilization of mill vibration by mill stabilizing device in hot rolling
98	ro-05	Andrzej Milenin, Piotr Kustra, Roman Kuziak, Maciej Pietrzyk	Model of residual stresses in hot-rolled sheets with taking into account relaxation process and phase transformation
474	ro-06	Xiangwei Kong, Liangyun Lan	Optimization of mechanical properties of low carbon bainitic steel using TMCP and accelerated cooling
480	ro-07	Nozomi Matsuoka, Motoki Terano, Takahiro Ishiguro, Eiji Abe, Nobuki Yukawa, Takashi Ishikawa, Yoshiyuki Ueshima, Kenichi Yamamoto, Kohichi Isobe	Computer simulation of deformation behavior of non-metallic inclusion in hot-rolling

108	ro-08	Takuya Kurotsu, Akio Segawa	Evaluation of deformation behavior of oxide scale in hot rolling process by vacuum hot rolling mill
443	ro-09	Alexander Pesin, Denis Pustovoytov	Finite element modeling of edge defect formation in plate
501	ro-10	Michel Saby, Marc Bernacki, Pierre-Olivier Bouchard	Understanding and modeling of void closure mechanisms in hot metal forming processes: a multiscale approach
236	ro-11	Xiaoyun Yuan, Liqing Chen, Yang Zhao, Hongshuang Di, Fuxian Zhu	Dependence of grain size on mechanical properties and microstructures of high manganese austenitic steel
388	ro-12	Jianxin Xie, Hongjiang Pan, Huadong Fu, Zhihao Zhang	High efficiency warm-cold rolling technology and texture of Fe-6.5wt%Si alloy sheets
516	ro-13	Hiroshi Utsunomiya, Tsuyoshi Ito, Ryo Matsumoto	Flattening of surface grooves in cold flat rolling
492	ro-14	Yasuyuki Fujii, Yasushi Maeda, Ryota Ifuku	Prediction of surface roughness on rolled sheet by texture roll
62	ro-15	Chang-sheng Li, Bo Fu, Tao Zhu, You-yuan Li	Roughness and glossiness of SUS430 stainless steel in cold rolling
25	ro-16	Chunguo Liu, Xueguang Zhang, Shilei Zhang, Xuezhi Liu	Simulation of rolling process of AZ31 magnesium alloy sheet
301	ro-17	Haibo Xie, Ken-ichi Manabe, Tsuyoshi Furushima, Kazuo Tada,	Deformation characterization of micro rolling for stainless steel foil
517	ro-18	Trong-Son Cao, Pierre Montmitonnet, Pierre-Olivier Bouchard, Christian Bobadilla,	Damage prediction using several types of macro-scale damage models in different cold wire production lines
74	ro-19	Yukio Takashima, Naoki Nakata	T-bar rolling process with universal and edger mills
288	ro-20	Man-soo Joun, Jangho Lee , Jae-min Cho, Seung-won Jeong, Ho-keun Moon	Quantitative study on Mannesmann effect in roll piercing of hollow shaft
182	ro-21	Yan Chen, Shi-Hong Zhang, Ming Cheng, Hongwu Song, Jinsong Liu, Shuangkui Xiong	Effects of microalloying with lanthanum on recrystallization of cold rolled pure copper
357	ro-22	Ban Cai, Changsheng Li, Jian Zhang, Yanlei Song, Jianjun Zheng	Rolling of AZ31 magnesium alloy strip using induction heating rolls
185	ro-23	Atsushi Yamamoto, Takuya Kajiura, Masaaki Tsukamoto, Daisuke Okai	Effects of intermediate annealing and cold-rolling on recrystallization texture in 1050 aluminum
307	ro-24	Michele Francesco Novella, Andrea Ghiotti, Stefania Bruschi, Paolo Francesco Bariani	Modelling of AA6082 ductile damage evolution under hot rolling conditions
155	ro-25	Daming Wang, Mingzhe Li, Zhongyi Cai	Investigation on forming precision of flexible rolling process for three-dimensional surface parts of different sheet materials
491	ro-26	Masakazu Kato, Atsushi Hasegawa, Shoji Sugyo, Hiroshi Nakamura, Masanori Kobayashi, Yoshio	Straightening technology of round bars using 2-roll rotary straightener
451	ro-27	Siti Nadiah binti Mohd Saffe, Takuo Nagamachi, Hiroshi Ona	Residual stress around cut end of hat steel channel by roll forming
360	ro-28	Mohammad Mehdi Kasaei, Hassan Moslemi Naeini, Behnam Abbaszadeh, Mehran Mohammadi, Mojtaba Ghodsi, Manabu Kiuchi, Reza Zolghadr, Gholamhosein Liaghat, Rohollah Azizi Tafti, Mehdi	Flange wrinkling in flexible roll forming process
386	ro-29	Wen.Kang, Yixi.Zhao, Wangwei.Yu, Shanshuai.Wang, Yuefeng.Ma, Peijie.Yan	Numerical simulation and parameters analysis for roll forming of martensitic steel MS980
196	ro-30	Yoshinori Sasaki, Masaaki Otsu, Masami Matsumura, Kazuyuki Morishita, Taiki Tanaka, Hideki Yagi, Yuichiro Sekine, Motoo	Deriving position of bending roll in roll bending of titanium alloy wire for glasses frame
515	ro-31	Guihua Liu, Zhiping Zhong, Zhi Shen	Influence of reduction distribution on internal defects during cross-wedge-rolling process

144	ro-32	Shuai Zhu, He Yang, Lianggang Guo, Weijia Di	Effects of initial forming temperature on primary alpha evolution during radial-axial ring rolling for TA15 titanium
265	ro-33	Wujiao Xu, Qiaoli Wang, Xue Zhou, Xiaobing Yang	Quantitative design methodology for flat ring rolling process
213	ro-34	Wen Meng, Guoqun Zhao	Effects of key simulation parameters on conical ring rolling
381	ro-35	Chao Wang, Ton van den Boogaard, Edin Omerspahic, Viktor Recina, Bert Geijselaers	Influence of feed rate on damage development in hot ring rolling
448	ro-36	Tae-Dong Kil, Jin-Mo Lee, Young-Hoon Moon	Formability estimation of ring rolling process by using deformation processing map
561	ro-37	Tobias Husmann, Horst Meier	Use of image processing to evaluate radial-axial rolled rings
145	ro-38	Wolfram Schmitt, Manuel Neuwirth, Felix Kretz, Peter Groche	On the origin of specimen: load-adapted integral sheet metal products
188	ro-39	Hiroshi Sasaki, Toshinaka Shinbutsu, Shuichi Amano, Teruie Takemasu, Shin-ichiro Sugimoto, Takao Koide, Satoshi Nishida	Three-dimensional complex tooth profile generated by surface rolling of sintered steel helical gears using special CNC form rolling machine
444	ro-40	Peng Wengfei, Yu Wenjing, Jiao Sijia, Shu Xuedao, Sun Baoshou, Liu Yuzhen, Zhan Lihua	Analysis of cross wedge rolling of spiral shaft parts
400	ro-41	Ken-ichi Kawai, Satoshi Chaki, Yoshihiro Takayama, Yusuke Saito, Kazuhiro Ouchi, Yutaka Morishita	Metal flow in rotary splitting of circular disk
367	ro-42	Teruie Takemasu, Takao Koide, Toshinaka Shinbutsu, Hiroshi Sasaki, Yoshinobu Takeda, Satoshi Nishida	Effect of surface rolling on load bearing capacity of pre-alloyed sintered steel gears with different densities
438	ro-43	Yoshinori Yoshida, Kensuke Kuroda, Ryoichi Ichino, Norishige Hayashi, Naofumi Ogihara, Yoshio Nonaka	Development of bioactivity and pull-out torque control technology on Ti implant surface and its application for cold thread rolled bone screw
sk1	s1-00 (40min)	K. Mori, M. Merklein, J. Yanagimoto, B.-A. Behrens, P.F.	Recent development of hot stamping
11	s1-01	Nan Li, Jianguo Lin, Trevor A.	Materials modelling for selective heating and press hardening
118	s1-02	Rong Shean Lee, Yi Kai Lin, Ta Wei Chien	Experimental and theoretical studies on formability of 22MnB5 at elevated temperatures by Gleeble simulator
12	s1-03	Mohamed Mohamed, Jianguo Lin, Alistair Foster, Trevor Dean, John	A new test design for assessing formability of materials in hot stamping
575	s1-04	Marion Merklein, Michael Wieland	Investigations on austenitization parameters influencing wear behavior within hot stamping
1	s1-05	Guo-feng Wang,Xue-Song Wu, Chao Sun, Shu-fen Liu, Qi Liu, Hai-Shan	Auxiliary current hot forming of high-strength steel for automobile parts
347	s1-06	Fangfang Li, Mingwang Fu, Jianping Lin	Effect of cooling path on phase transformation of boron steel 22MnB5
320	s1-07	Kai1 Wang, Zhongxiang Gui, Peixing Liu, Yilin Wang, Yisheng	Cracking behavior of Al-Si coating on hot stamping boron steel sheet
569	s1-08	Kazuhisa Kusumi, Naruhiko Nomura, Shuji Yamamoto, Nasahiro Nakata, Masayuki Abe, Masayoshi	Improvement of cylindrical deep drawability in hot stamping
324	s1-09	Zijian Wang, Peixing Liu, Ya Xu, Yilin Wang, Yisheng Zhang	Hot stamping of high strength steel with tailored properties by two methods
321	s1-10	Weikang Liang, Liang Wang, Yong Liu, Yilin Wang, Yisheng Zhang	Hot stamping parts with tailored properties by local resistance heating
77	s1-11	Xianhong Han, Yaoyao Zhong, Kun Yang, Zhenshan Cui, Jun Chen	Application of hot stamping process by integrating quenching & partitioning heat treatment to improve mechanical properties
460	s1-12	Nan Li,Chaoyang Sun, Ning Guo, Mohamed Mohamed, Jianguo Lin, M Takeki	Damage investigation of boron steel at hot stamping conditions
408	s1-13	Tzu-Hao Hung, Pei-Wu Tsai, Fuh-Kuo Chen, Tyng-Bin Huang, Wei-	Measurement of heat transfer coefficient of boron steel in hot stamping

578	s1-14	Bernd-Arno Behrens, Anas Bouguecha, Christoph Michael Gaebel, Jörn Moritz, Jens Schrödter	Hot stamping of load adjusted structural parts
124	s1-15	Ken-ichiro Mori, Tomoyoshi Maeno, Takuya Suganami, Masato Sakagami	Hot semi-punching of quenchable steel sheet
323	s1-16	Xiaoyu Luo, Liang Wang, Yilin Wang, Jun Xie, Yisheng Zhang	Non-destructive hardness measurement of hot-stamped high strength steel sheets based on magnetic barkhausen noise
55	s1-17	Ming-dong Huang, Bao-yu Wang, Jing Zhou, Xue-tao Li	Investigation on mechanical properties distribution on hot stamped part
358	s1-18	Shi-jian Yuan, Xiao-bo Fan, Zhu-bin He	Hot forming-quenching integrated process with cold-hot dies for 2A12 aluminum alloy sheet
574	s1-19	Ming-Fu Li, Tzu-Shin Chiang, Jiun-Hau Tseng, Chia-Nung Tsai	Hot stamping of door impact beam
60	s1-20	Tongsheng Deng, Dongsheng Li, Xiaoqiang Li, Pang Ding, Kai Zhao	Hot stretch bending and creep forming of titanium alloy profile
308	s1-21	Xifeng Li, Qiang Zhou, Shuangjun Zhao, Jun Chen	Effect of pulse current pulse on bending behavior of Ti6Al4V alloy
sk2	s2-00 (40min)	Niels Bay	Keynote on some tribology in metal forming
8	s2-01	Ermanno Ceron, Paulo A.F. Martins, Niels Bay	Thermal analysis of bending under tension test
326	s2-02	Takayuki Muranaka, Hideyo Miyoshi, Takeshi Kihara, Masaaki Otsu, Osamu Haraguchi	Draw bending method of seizure for pure titanium sheet
544	s2-03	Tomohiro Yamada, Zhigang Wang, Tomonori Sasa	Effect of tool shape on galling behavior in plate shearing
313	s2-04	Adrian Pascu, Valentin Oleksik, Ioan Bondrea, Liviu Roşca	Inverse analysis used to determine plastic flow and tribological characteristics for deep-drawing sheet
542	s2-05	Zhigang Wang, Mingxu Yang, Yasuharu Yoshikawa	A prediction method of galling position in square cup drawing
120	s2-06	Maziar Ramezani, Thomas Neitzert,	Frictional properties of AZ80 and ZE10 magnesium alloys
534	s2-07	Laurent Dubar,Catalin I. Pruncu, André Dubois, Mirentxu Dubar	Effects of contact pressure, plastic strain and sliding velocity on sticking in cold forging of aluminium billet
403	s2-08	Hyunok Kim, Taylan Altan	Effects of surface finish and die temperature on friction and lubrication in forging
7	s2-09	Ryo Matsumoto, Kazunori Hayashi, Hiroshi Utsunomiya	Identification of friction coefficient in high aspect ratio combined forward-backward extrusion with pulse ram motion
486	s2-10	Tomoyoshi Maeno, Ken-ichiro Mori, Yuki Ichikawa, Minoru Sugawara	Prevention of seizure in inner spline backward extrusion by low-cycle oscillation using servo press
485	s2-11	Masatoshi Sawamura, Yasuhiro Yogo, Michiaki Kamiyama,	Measurement of friction coefficient by backward extrusion with rotating tool under severe forming conditions
541	s2-12	Tatsuhiro Suzuki, Zhigang Wang, Yasuharu Yoshikawa	Effect of plastic deformation of bulk material on frictional behavior in dry metal forming
286	s2-13	Shunpei Kamitani, Kenji Nakanishi, Yong-Ming Guo	Performance evaluation of lubricant for producing smooth surface product in cold extrusion of aluminum using tool with micro-groove arrays
373	s2-14	Tetsuhide Shimizu, Tai Kakegawa, Ming Yang	Micro-texturing of DLC thin film coatings and its tribological performance under dry sliding friction for microforming operation
398	s2-15	Ali Mousavi, Michael Schomäcker, Alexander Brosius	Macro and micro structuring of deep drawing's tools for lubricant free forming
207	s2-16	Yohei Abe, Tomohiro Fujita, Ken-ichiro Mori, Kozo Osakada, Takashi Shiba, Witthaya Daodon	Improvement of formability in ironing of stainless steel drawn cups using low friction cermet dies
356	s2-17	Dongbin Wei, Haina Lu, Zhengyi Jiang, Kenichi Manabe	Surface morphology of micro stepped components in micro cross wedge rolling

375	s2-18	Yong Jin, Shigeo Yasuhara, Tetsuhide Shimizu, Ming Yang	Tribological characterization of boron nitride films against pure-titanium for microforming die application
568	s2-19	Ehsan Ghassemali, Ming-Jen Tan, Chua Beng Wah, Samuel C.V. Lim, Anders E.W. Jarfors	Friction effects during open-die micro-forging/extrusion processes: an upper bound approach
10	s2-20	Lars Hiegemann, Christian Weddeling, Nooman Ben Khalifa, A. Erman, Tekkaya	Analytical prediction of roughness after ball burnishing of thermally coated surfaces
333	s2-21	Yoshifumi Higashigawa, Taishi Kohara, Masaki Morita, Masayoshi	Estimation of roles of matrix and NbC particles dispersed in surface layer of tool by PTA welding
133	s2-22	Hideaki Mori, Yukikazu Shibata,Shyunji Araki, Tadahiko Imanara, Katsumi Sakamoto, Yoshinori Yama	Surface improvement of coining dies with DLC films
194	s2-23	Takahiro Akao, Yuki Sakurai1, Tetsuhiko Onda, Kazutake Uehara, Zhong-Chun Chen	Surface modification of cold-working die steel by electron beam irradiation – formation of cemented carbide composite layer –
259	s2-24	Chuanliang Cao, Xianglin Zhang, Xiang Zha, Chunfa Dong	Surface integrity of tool steels multi-cut by wire electrical discharge machining
117	s2-25	Milan Terčelj, Peter Panjan, Peter Cvahte, Peter Fajfar, Goran Kugler	Increasing of service times of nitrided and CrN coated dies for Al hot extrusion
535	s2-26	André Dubois, Emilie Luc, Mirentxu Dubar, Laurent Dubar, Céline Thibaut, Jean-Michel Damasse	Initiation of sticking during hot rolling of stainless steel plate
536	s2-27	André Dubois, Mirentxu Dubar, Laurent Dubar	Warm and hot upsetting sliding test: tribology of metal processes at high temperature
405	s2-28	Kazuhito Asai, Kazuhiko Kitamura	Estimation of frictional property of lubricants for hot forging of steel using low-speed ring compression test
318	s2-29	Norio Takatsuji, Yoshiki Kakutani, Tetsuo Aida, Satoshi Murakami, Jin Shinmura, Hiroaki Matsui	Sliding characteristics in hot working tool steel at high pressure
sk3	s3-00 (40min)	Wolfram Volk	German project of joining by plastic deformation
79	s3-01	Stefan Kleditzsch, Birgit Awiszus, Michael Lätzer, Erhard Leidich	Steel-Aluminum knurled interference fits: joining process and load characteristics
43	s3-02	Florian Dörr, Michael Funk, Mathias Liewald, Hansgeorg Binz, Robin Kö stlmeier	Influence of internal hub profile on joining process of shaft-hub-connection by lateral extrusion
184	s3-03	Masatoshi Usui, Atsushi Shirayori, Michiharu Narazaki, Hiroya Murakami, Nobuyuki Kawame, Yukinori Suzuki, Masashi Watabe	Basic property of high-precision metal flow joining method without need for any specialized punch
153	s3-04	Simon Wohletz, Peter Groche	Temperature influence on bond formation in multi-material joining by forging
94	s3-05	Yuri Miwada, Takahiro Ishiguro, Eiji Abe, Nobuki Yukawa, Takashi Ishikawa, Tomoaki Suganuma	Cold forge spot-bonding of high tensile strength steel and aluminum alloy sheets
252	s3-06	Eric Moumi, Philipp Wilhelmi, Bernd Kuhfuss, Christian Schenck, Kirsten Tracht	Wire joining by rotary swaging
528	s3-07	Katia Mocellin, Matthieu Petitprez	Experimental and numerical analysis of electrical contact crimping to predict mechanical strength
258	s3-08	Zhipeng Zhang, Wenchen Xu, Debin Shan	An analytical model on spin-bonding of composite tube
66	s3-09	Hava Hüyük, Omer Music, Asuman Koç, Celalettin Karadoğan, Çağdaş	Analysis of elastic-plastic interference-fit joints

523	s3-10	Junying Min, Jingjing Li, Blair E. Carlson, Yongqiang Li, Jianping Lin	Mechanical property of Al alloy joints by friction stir blind riveting
162	s3-11	Zhichao Huang, Shuguang Xue, Jiamei Lai, Lingjun Xia, Jinqing	Self-piercing riveting with inner flange pipe rivet
345	s3-12	Noboru Nakayama, Takayoshi Ikeda, Naoki. Kobayashi, Masaomi Horita	Joining process for plates using plastic deformation with rotating tool and pilot hole
563	s3-13	Yohei Abe, Shoma Nishino, Ken-ichiro Mori, Takato Saito	Improvement of joinability in mechanical clinching of ultra-high strength steel sheets using counter pressure with ring
130	s3-14	Chan Chin Wang, Heng Keong Kam, Wen Chiet Cheong	Effect of tool eccentricity on the joint strength in mechanical clinching process
533	s3-15	Yuji Yamasaki, Kazuhiko Higai, Toyohisa Shinmiya	Press forming process of closed-profile automotive parts without flange
558	s3-16	Zamzuri Hamedon, Ken-ichiro Mori, Yohei Abe	Hemming for joining high strength steel sheets
458	s3-17	Jae-Hyung Cho, Won-Jae Kim, Chang Gil Lee	Evolution of microstructure and mechanical properties during friction stir welding of A5083 and A6082
382	s3-18	Gianluca Buffa, Pierluigi Fanelli, Livan Fratini, Francesco Vivio	Influence of joint geometry on micro and macro mechanical properties of friction stir spot welded joints
508	s3-19	Toshiaki Yasui, Hiroki Mizushima, Masami Tsubaki, Tomoyuki Fujita, Masahiro Fukumoto	Influence of tool shape on friction stir welded joint of aluminum and steel with circular weld line
247	s3-20	Tobias Gnibl, Marion Merklein	Characterization of mechanical properties in processed friction stir welded high-strength aluminum alloy blanks
430	s3-21	Yvan Chastel, Lucas Passemard	Joining technologies for future automobile multi-material
366	s3-22	Genki Nanaumi, Daisuke Mizushima, Naoto Ohtake	Joining of various kinds of metal plates using ultrasonic vibrations
506	s3-23	Kunkun Chen, Yansong Zhang	Thermal-mechanical analysis of ultrasonic spot welding considering acoustic softening effect
322	s3-24	Zhequn Huang, Sumio Sugiyama, Jun Yanagimoto	Adhesive–embossing hybrid joining process to fiber-reinforced thermosetting plastic and metallic thin sheets
28	s3-25	Anupam Vivek, Glenn S. Daehn	Vaporizing foil actuator: a versatile tool for high energy-rate metal working
222	s3-26	Bernd Kuhfuss, Christian Schenck, Philipp Wilhelmi, Lasse Langstädtler	Electromagnetic linked micro part processing
17	s3-27	Chris Valentin Nielsen, Wenqi Zhang, Paulo Antonio Firme	Numerical and experimental analysis of resistance projection welding of square nuts to sheets
169	s3-28	Daniel R Cooper, Julian M Allwood	Influence of diffusion mechanisms in aluminium solid-state welding processes
64	s3-29	Kaifeng Zhang, Yuanxin Wang, Jianbo Jia, Baoyong Li	Deformation properties and bending/diffusion bonding processing of a P/M Ti-22Al-25Nb alloy at elevated
472	s3-30	Masataka Hakamada, Mamoru	Nanoporous nickel fabricated by dealloying of rolled Ni-Mn
sk4	s4-00 (20min)	Shijian Yuan	Fundanmentals and development of hydroforming of light alloy tubes and complex components
426	s4-01	Rainer Steinheimer, Bernd Engel	Thermal influences during rotary draw bending of tubes from stainless steel
91	s4-02	Nan Liu, He Yang, Heng Li, M. Zhan, Zhijun Tao, Xiao Hu	Modelling of wrinkling in NC bending of thin-walled tubes with large diameters under multi-die constraints using hybrid
115	s4-03	Xin Xue, Juan Liao, Gabriela Vincze, Jose Gracio	Twist springback of asymmetric thin-walled tube in mandrel rotary draw bending process
482	s4-04	Osamu Hasegawa, Ken-ichi Manabe, Tsutomu Murai	Stretch press bending of AZ31 magnesium alloy extruded square tube
131	s4-05	Cong Han, Yong Wang, Yongchao Xu, Shijian Yuan	Tube shear hydro-bending of titanium alloys
363	s4-06	Sin-Liang Lin, Bo-Hao Huang, Fuh-Kuo Chen	Strength and formability designs of tube-hydroformed automotive front sub-frame
41	s4-07	Yong Xu, Shihong Zhang, Ming Cheng, Hongwu Song, Xiaosong	Application of pulsating hydroforming in manufacture of engine cradle of austenitic stainless steel

57	s4-08	Buang Teng, Weinian Wang, Yinquan Liu, Shijian Yuan	Bursting prediction of hydroforming aluminium alloy tube based on Gurson-Tvergaard-Needleman damage model
565	s4-09	Manabu Wada, Masaaki Mizumura, Keinosuke Iguchi, Hiromitsu Kaneda	Large-expansion hydroforming technology achieving three-times expanding
302	s4-10	Bandar Alzahrani, Gracious Ngaile	Analytical and numerical modeling of thick tube hydroforging
88	s4-11	Yi-Chun Chen, Chih-Yu Chuang, Ming-Fu Lee	Process parameter with high expansion rate of SUS304 tube hydroforming
559	s4-12	Tomoyoshi Maeno, Ken-ichiro Mori, Chihiro Unou	Improvement of die filling by prevention of temperature drop in gas forming of aluminium alloy tube using air filled into sealed tube and resistance heating
122	s4-13	Gang Liu, YongWu, JieZhao, Kai Wang, Shijian Yuan	Formability determination of titanium alloy tube for high pressure pneumatic forming at elevated temperature
15	s4-14	Yeong-Maw Hwang, Cheng-Nan	Hot extrusion of hollow helical tubes of magnesium alloys
161	s4-15	Wang Xun, Zhou Jie, Liang Qiang	Multi-objective optimization of medium frequency induction heating process for large diameter pipe bending
126	s4-16	Christopher P. Dick, Yannis P.	Assessment of anisotropy of extruded tubes by ring hoop
499	s4-17	Naoaki Shimada, Atsushi Tomizawa, Hiroaki Kubota, Hiroshi Mori, Mitsusato Hara, Shinjiro Kuwayama	Development of three-dimensional hot bending and direct quench technology
414	s4-18	Tao Zhijun, Yang He, Li Heng, Zhang Zhiyong, Chen Zemiao	Coupled thermo-mechanical FE simulation of unloading cooling springback in NC heating bending of large diameter thin-walled commercial pure titanium tube
sk5	s5-00 (40min)	Dong-Yol Yang	Incremental forming as a Competitive 3D Printing Technology
276	s5-01	Valentin Oleksik	Influence of geometrical parameters, wall angle and part shape on thickness reduction of single point incremental forming
467	s5-02	Oscar Martínez-Romero, María Luisa García-Romeu, Daniel Olvera-Trejo, Isabel Bagudanch, Alex Elías-Zúñiga	Tool dynamics during single point incremental forming process
306	s5-03	Isabel Bagudanch, Oscar Martínez-Romero, Alex Elías-Zúñiga, Maria Luisa Garcia-Romeu	Identifying polymeric constitutive equations for incremental sheet forming modelling
538	s5-04	Nagarajan Devarajan, Giribaskar Sivaswamy, Rahul Bhattacharya, David P Heck, Muhammad Amir	Complex incremental sheet forming using back die support on aluminium 2024, 5083 and 7075 alloys
241	s5-05	Markus Bambach, Holger Voswinckel, Gerhard Hirt	A new process design for performing hole-flanging operations by incremental sheet forming
80	s5-06	Sebastian Härtel, Birgit Awiszus	New processing technologies of incremental sheet metal
114	s5-07	Masaaki Otsu, Mitsuteru Yasunaga, Mitsuhiro Matsuda, Kazuki	Friction stir incremental forming of A2017 aluminum sheets
129	s5-08	Dongkai Xu, Bin Lu, Tingting Cao, Jun Chen, Hui Long, Jian Cao	A comparative study on process potentials for frictional stir- and electric hot-assisted incremental sheet forming
394	s5-09	Ryutaro Hino, Keita Kawabata, Fusahito Yoshida	Incremental forming with local heating by laser irradiation for magnesium alloy sheet
199	s5-10	Qi Zhang, Kaiqiang Jin, Dong mu, Pengju Ma, Jie Tian	Rotary swaging forming process of tube workpieces
270	s5-11	Eric Moumi, Svetlana Ishkina, Bernd Kuhfuss, Thomas Hochrainer, Adrian Struss, Martin Hunkel	2D-simulation of material flow during infeed rotary swaging using finite element method
70	s5-12	Wencheng Feng, Wangui Yao, Peng Jiang	Influence of eccentricity on movements of orbital head with double eccentric structure in orbital forging
119	s5-13	Vikram Bedekar, Praveen Pauskar, Rajiv Shivpuri, J. Howe	Microstructure and texture evolutions in AISI 1050 steel by flow forming
234	s5-14	Liyana Tajul, Tomoyoshi Maeno, Ken-ichiro Mori	Successive forging of long plate having inclined cross-section

23	s5-15	Yoshihiro Sagisaka, Kiyomitsu Yamashita, Wataru Yanagihara, Hiroyasu Ueta	Micro parts processing using laser cutting and ultra-short-pulse laser peen forming
46	s5-16	Yoshihiko Sugita, Hirohiko Arai	Effect of pass-set shape on formability in synchronous multipass spinning
277	s5-17	Benjamin Lossen, Werner Homberg	Friction-spinning – Interesting approach to manufacture of complex sheet metal parts and tubes
278	s5-18	Fritz Klocke, Christoph Martin	Laser-assisted metal spinning of challenging materials
325	s5-19	Michael Watson, Hui Long	Wrinkling failure mechanics in metal spinning
355	s5-20	Gangfeng Xiao, Qinxiang Xia, Xiuquan Cheng, Yujing Zhou	Metal flow model of cylindrical parts by counter-roller spinning
sk6	s6-00 (40min)	Jean-Loup Chenot	Recent and future developments in finite element metal forming simulation
284	s6-01	Fabian Schongen, Fritz Klocke, Patrick Mattfeld, Sergej Rjasanow, Richards Grzhibovskis	FEM/BEM simulation of cold forging process considering press-tool-workpiece interaction
518	s6-02	Liang Luo, Zhengyi Jiang, Haina Lu, Dongbin Wei, Kezhi Linghu, Xianming Zhao, Di Wu	Optimisation of size-controllable centroidal voronoi tessellation for FEM simulation of micro forming processes
138	s6-03	Soo-young Kim, Kaoru Tsuruoka, Tadashi Yamamoto	Effect of forming speed in precision forging process evaluated using CAE technology and high performance servo-press
441	s6-04	Yoshihiro Kubota, Kunio Hayakawa, Takumi Okada, Shigekazu Tanaka, Tamotsu Nakamura	Electro-thermo-mechanical finite element analysis on DC pulse resistance pressure sintering process of zirconia part
274	s6-05	Jean-Loup Chenot, Christine Bé raudo, Marc Bernacki, Lionel	Finite element simulation of multi material metal forming
202	s6-06	Eiji Iizuka, Kazuma Hashimoto, Tshihiko Kuwabara	Effects of anisotropic yield functions on the accuracy of forming simulations of hole expansion
128	s6-07	Hanyong Jung, Yangjin Chung, Myoung-gyu Lee, Kichul Park,	Modeling mechanical properties of 21-Cr ferritic stainless steel with variation of stress ratio
350	s6-08	You Wang, Mingzhe Li , Hongwei Liu, Jian Xing	Finite element simulation of multi-gripper flexible stretch forming
231	s6-09	Christopher J. Cawthorna, Evripides G. Loukaides, Julian M. Allwood	Comparison of analytical models for sheet rolling
2	s6-10	Peter Christiansen, Paulo António Firme Martins, Niels Bay, Jesper	Multi-objective optimization of die geometry in ingot forging
434	s6-11	Zhengyi Jiang, Haina Lu, Dongbin Wei, K.Z. Linghu, Xianming Zhao, Xiaoming Zhang, Di Wu	Finite element method analysis of micro cross wedge rolling of metals
442	s6-12	Alexander Pesin, Mikhail Chukin, Aleksey Korchunov, Denis Pustovoytov	Finite element modeling of shear strain in asymmetric and symmetric rolling in multi roll calibers
287	s6-13	Chan-hee Nam, Min-cheol Lee, Jae-gun Eom, Moo-ho Choi, Man-soo	Finite element analysis model of rotary forging for assembling wheel hub bearing assembly
471	s6-14	Dongsheng Qian, Huajie Mao, Jiadong Deng, Jinshan Yue	Processing optimization for large spherical valve body based on FE simulation
246	s6-15	Lingyun Qian, Gang Fang, Pan Zeng	Three-dimensional finite element analysis for flying shearing of X100 hot-rolled steel plate
341	s6-16	Mansoo Joun, Mincheol Kim, Jongho Kim, Wanjin Chung	Finite element analysis of deep piercing process
51	s7-01	James Alexander Polyblank, Julian Mark Allwood	Support roller control and springback compensation in flexible spinning
177	s7-02	Zhipeng Lai, Quanliang Cao, Xiaotao Han, Zhongyu Zhou, Qi Xiong, Xiao Zhang, Qi Chen, Liang	Radial-axial force controlled electromagnetic sheet deep drawing: electromagnetic analysis
158	s7-03	Andrea Ghiotti, Stefania Bruschi, Paolo Regazzo	Shear surface control in blanking by adaptronic systems

253	s7-04	Ken-ichi Manabe, Xu Chen, Dai Kobayashi, Kazuo Tada	Development of in-process fuzzy control system for T-shape tube hydroforming
267	s7-05	Zakaria Alliam, Eric Becker, Cyrille Baudouin, Régis Bigot, Pierre	Forging process control: Influence of key parameters variation on product specifications deviations
420	se-01	Bernd-Arno Behrens, Anas Bouguecha, Milan Vucetic, Richard Krimm, Tobias	Numerical and experimental determination of cut-edge after blanking of thin steel sheet of DP1000 within use of stress based damage model
137	se-02	Kazutake Komori	Simulation of stationary crack during blanking using node separation method
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