

CODE	Abstract Title	Authors	Session	First Name	Last Name	Email	Institution	Country
1004	UV Vibrational Raman Spectroscopy Flame Diagnostic System	Levy Yeshayahou and Kartvelishvili Liana		Liana	Kartvelishvili	liana@aerodyne.technion.ac.il	Tecnion-Israel Institute of Tecnology	Israel
1005	Role of particle/particle collisions in a dilute tube flow : Analysis and experiments for mono and bi-dispersed situations	N. CARAMAN , J. BORÉE, I. FLOUR		J.	Borée	jacques.boree@lea.ensma.fr	LEA ENSMA	FRANCE
1006	Experimental study of mixing and transport in a compressed vortex using PLIF and PIV	J. Moreau, J. Boree, G. Charnay		J.	Borée	boree@ensma.fr	LEA ENSMA	FRANCE
1007	High Spatial Resolution Optical Tip-Clearance Probe for Harsh Environments	Andreas Kempe, Stefan Schlamp, Thomas Rösger		Andreas	Kempe	kempe@ifd.mavt.ethz.ch	Institute of Fluid Dynamics	Switzerland
1013	Instantaneous measurement of the twodimensional temperature fields in fluids by two color planar laser induced fluorescence	M. Bruchhausen, F. Guillard, F. Lemoine		Matthias	Bruchhausen	mathias.bruchhausen@ensem.inpl-nancy.fr	LEMETA-CNRS UMR 7563	France
1016	Time-resolved OH-PLIF in laser ignition applied to lean premixed preheated methane-air flames	L. Zimmer, S. Tachibana and K. Suzuki	Combustion and Detonation	Laurent	Zimmer	zimmer.laurent@jaxa.jp	Japan Aerospace Exploration Agency	JAPAN
1018	Density Field Measurement by	J. Haertig, F. Sourgen, C. Rey		Jacques	Haertig	haertig@isl.tm.fr	ISL	France
1019	Laser Photothermal Velocimeter by Compulsorily Operating Point Locked Optical-deflection-probe	Noboru Nakatani		Noboru	Nakatani	nakatani@ashiya-u.ac.jp	Ashiya University	Japan
1020	Velocity and strain-rate characteristics of opposed isothermal flows	P Lindstedt, D Luff, D Smith and J H Whitelaw		J. H.	Whitelaw	JHWhitelaw@compuserve.com	Imperial College	United Kingdom
1021	Effect of Excess Addition of Counter-ion on Development Characteristics of Drag-Reducing Surfactant Solution Flow	Hiroshi SUZUKI, Phuc H. NGUYEN, Satoko YAMAUCHI and Hiromoto USUI	Wall Flows	Hiroshi	Suzuki	hero@kobe-u.ac.jp	Kobe University	Japan
1023	Applications of LDV with conditional seeding in turbulent jets with variable density	D.Stepowski	LDV Signal and Data processing. Turbulent mixing.	denis	STEPOWSKI	denis.stepowski@coria.fr	UMR 6614 - CORIA, CNRS et Université de Rouen	France
1024	A 'comprehensive' LDV system for fully-resolved measurements of the instantaneous vorticity and dissipation tensors and the Reynolds averaged velocity-pressure gradient fluctuation tensor in turbulent flows	K. T. Lowe R. L. Simpson	Novel Measurement Methods	Kevin	Lowe	kelowe@vt.edu	Virginia Polytechnic Institute and State University	USA

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1028	Vortical structure and scalar mixing of a plane jet with spanwise non-uniform forcing	Jun Sakakibara, Taira Omiya, Miwa Hayashi		Jun	Sakakibara	sakakiba@kz.tsukuba.ac.jp	University of Tsukuba	Japan
1031	The structure of propane sprays from automotive fuel injectors as a function of fuel and ambient pressure by Mie and LIF imaging	A Vuorenkoski, TI Mohamad, M Harrison and M Jermy		Mark	Jermy	eb0372@ecs.pc.cranfield.ac.uk	School of Engineering, Cranfield University	United Kingdom
1032	Laser induced fluorescence measurements of the thickness of fuel films on the combustion chamber surface of a gasoline SI engine	M. Jermy, T. Noel and W. Doherty		Mark	Jermy	m.jermy@cranfield.ac.uk	Cranfield University	United Kingdom
1033	Errors due to scattering of the detected light by the spray lying between the camera and the light sheet in light sheet imaging experiments	F Moukaideche, E Berrocal and M Jermy		Mark	Jermy	m.jermy@cranfield.ac.uk	School of Engineering	United Kingdom
1038	Considerations and improvements on analysing algorithms for time resolved PIV of turbulent wall bounded flows	G. Usera , A. Vernet, J. Pallares, J. A. Ferré	PIV Signal and Data Processing	Josep	Ferre	jaferre@etseq.urves	Universitat Rovira i Virgili	Spain
1040	Laser Doppler Anemometry measurements of near wall turbulence in a Venturi	V.A. Nievaart R.F. Mudde H.R.E. van Maanen	Wall Flows	Sander	Nievaart	victor.nievaart@jrc.nl	JRC Institute for Energy / IRI TU Delft	The Netherlands
1042	Design of a dense motion estimator for piv images using an optical-flow scheme with physical laws	Thomas Corpetti Etienne Mémin Dominique Heitz Georges Arroyo	Novel Measurement Methods	Thomas	Corpetti	thomas.corpetti@cemagref.fr		France
1043	Estimation of motion using a piv correlation-based method and an "optical flow" one for two experimental flows: quantitative and qualitative comparison	Thomas Corpetti, Alina Santa-Cruz, Dominique Heitz, Georges Arroyo, Étienne Mémin	Novel Measurement Methods	Thomas	Corpetti	thomas.corpetti@cemagref.fr	Cemagref	France
1045	Study of an Industrial Gas Turbine Fuel Spray Injector in a cross-flow. Characterisation and Comparisons with CFD predictions.	Nigel Wilbraham, Victoria Sanderson, Khawar Syed†, Marios S Christodoulou	Sprays for Engines	Victoria	Sanderson	victoria.sanderson@industrial-turbines.siemens.com	Siemens	UK
1049	VISUALIZATIONS OF VISCOELASTIC FLOW IN A 4:1 SQUARE/SQUARE CONTRACTION	M. A. Alves F. T. Pinho P. J. Oliveira		Fernando	Pinho	fpinho@fe.up.pt	Faculdade de Engenharia da Universidade do Porto	Portugal
1050	Combining 3D PIV and 3D LDA to Map the Flow Characteristics within an Automotive Air Handling Unit	Chris Swales, Matt Crompton, Gerald Richter		Chris	Swales	cswales1@visteon.com		Germany

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1051	Experimental and Numerical Modelling of an Oscillatory Jet Thrust Vectoring System	M.P. Arruda, N.J. Lawson, M.R. Davidson	Jets	Nicholas	Lawson	n.lawson@cranfield.ac.uk	Cranfield University	UK
1052	Design of a Three Component Instantaneous Doppler Global Velocimeter	G. S. Hawkes S. J. Thorpe R.W. Ainsworth	Planar Doppler Velocimetry/Doppler Global Velocimetry	Graham	Hawkes	graham.hawkes@eng.ox.ac.uk	Oxford University	UK
1053	MCCDPIV Investigation of a Micro-Injector Controlled Swirling Jet	Philippa O'Neill, Ing Kiet Toh, Julio Soria and Damon Honnery		Philippa	O'Neill	philippa.oneill@eng.monash.edu.au	Monash University	Australia
1054	Measurements of Multicomponent Microdroplet Evaporation by Using Novel Optical Techniques	Yong ZHAO and Huihe QIU	Sprays for Engines	Huihe	Qiu	meqiu@ust.hk	Hong University of Science and Technology	Hong Kong SAR, China
1055	Simultaneous measurement of turbulent velocity field and surface wave amplitude in the initial stage of an open channel flow by PIV	F.-C. Li, Y. Kawaguchi, T. Segawa and K. Suga	Free-Surface Flows	Yasuo	Kawaguchi	kawaguchi.y@aist.go.jp	National Institute of Advanced Industrial Science and Technology	Japan
1058	DETAILED FLOW INVESTIGATION USING PIV IN A STATIONARY TWO-PASS COOLING SYSTEM	Dr. Marc P. JARIUS and Martin ELFERT	Turbomachinery or Engines	Marc	JARIUS	marc.jarjus@dlr.de	DLR	Germany
1060	Dual burst wavelet LDA processor implemented and tested on real flows	W.K. Harteveld, R.F. Mudde, H.E.A. van den Akker	LDV Signal and Data Processing	Wouter	Harteveld	w.k.harteveld@klf.t.tn.tudelft.nl	Delft University of Technology	Netherlands
1062	VISUALIZATION OF VORTICES AND FREE-SURFACE CONTOURS IN GRAVITY-DRIVEN CHANNEL FLOW OVER UNDULATED BOTTOMS	A. Wierschem N. Aksel	Free Surface Flows, Separated Flows	Andreas	Wierschem	andreas.wierschem@uni-bayreuth.de	University of Bayreuth	Germany
1064	Laser Doppler and optical techniques applied to multiple drops impact on solid hot dry surfaces	G. E. Cossali M. Marengo M. Santini		Maurizio	Santini	maurizio.santini@unibg.it	Università degli Studi di Bergamo	Italy
1066	HPIV using Polarization Multiplexing Holography in Bacteriorhodopsin (bR)	V S S Chan, W D Koek, D H Barnhart, T A Ooms, N Bhattacharya, J J M Braat and J Westerweel	Novel Measurement Methods	Victor	Chan	v.chan@wbmt.tudelft.nl	Delft University of Technology	The Netherlands
1067	Laminar viscoelastic flow through a 1:4 plane sudden expansion	R J Poole and M P Escudier		Rob	Poole	robpoole@liv.ac.uk	University of Liverpool	United Kingdom

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1068	EFFECT OF RADIAL DILUTION AIR INJECTION IN A LEAN PREMIXED SWIRL FLAME	David VAUCHELLE Gilles CABOT Benoit TAUPIN Abdelkrim BOUKHALFA	Turbomachinery	David	Vauchelles	david.vauchelles@coria.fr	CORIA - UMR CNRS 6614	France
1069	Evaluation of optical distortion effects in PIV	G.E. Elsinga B.W. van Oudheusden F. Scarano		Gerrit	Elsinga	g.e.elsinga@lr.tudelft.nl	Delft University of Technology	The Netherlands
1070	TIME RESOLVED PARTICLE IMAGING VELOCIMETRY FOR THE INVESTIGATION OF ROTATING STALL IN A RADIAL PUMP	N. Krause, K. Zähringer, E. Pap		Elemer	Pap	Elemer.Pap@VST.Uni-Magdeburg.DE	Otto-von-Guericke Universität Magdeburg	Germany
1073	Structure of turbulent heat flux in a flow over heated waves determined by simultaneous vT-measurements	Nils Kruse and Philipp Rudolf von Rohr	Wall Flow or COMBINING PIV AND SCALAR MEASUREMENTS	Nils	Kruse	kruse@ivuk.mavt.ethz.ch	Institute of Process Engineering	Switzerland
1074	INVESTIGATION OF VORTEX STATISTICS IN LAMINAR CAVITY FLOW BY PIV MEASUREMENTS	Elif Ozsoy*, Patrick Rambaud, Adel Stitou and M.L. Riethmuller	SEPARATED FLOWS - EXPANSION	Michel	RIETHMULLER	riethmuller@vki.ac.be	von Karman Institute for Fluid Dynamics	Belgium
1075	Comparisons between 3D-LDA measurements and time-resolved PIV data in the separated flow of circular cylinders	Alfred Leder Martin Bred	Separated Flows	Alfred	Leder	alfred.leder@mbst.uni-rostock.de	Univ. Rostock	Germany
1076	Local flame structure analysis of stratified V-shaped flame by Rayleigh scattering and PLIF on acetone	O. Degardin B. Renou A. Boukhalfa E. Domingues	Combustion	Bruno	RENOU	bruno.renou@coria.fr	UMR6614 CORIA	France
1077	Determination of the composition of multicomponent droplets by rainbow refractometry	J. Wilms, N. Roth, S. Arndt, B. Weigand	Two-Phase Flow	Jochen	Wilms	jochen.wilms@itlr.uni-stuttgart.de	University of Stuttgart	Germany
1078	Technique for measurements of the evaporation rate of single, freely falling, droplets	N. Roth, J. Wilms, B. Weigand	Two-Phase Flow	Norbert	Roth	norbert.roth@itlr.uni-stuttgart.de	University of Stuttgart	Germany
1079	Experimental investigation on the accuracy of PIV measurements under realistic pulsating physiological flow conditions	Knapp Y Kadem L Rieu R	Biological and Complex Flows	Kadem	Lyes	kadem@esm2.imt-mrs.fr	Ecole Généraliste d'Ingénieurs de Marseille (EGIM)	France
1080	Experimental characterization of a Partially Stirred Reactor (PaSR)	B. Renou B. Le Naour F.X. Demoulin L. Danaïla	scalar, diagnostics, micro-mixing	Bruno	RENOU	bruno.renou@coria.fr	UMR 6614 CORIA	France

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1081	A laboratory model of the left ventricle of human heart	A. Cenedese, Z. Del Prete, M. Miozzi and G. Querzoli	Biological and Complex Flows	Giorgio	Querzoli	querzoli@unica.it	Università di Cagliari	ITALIA
1082	In-duct measurement of acoustic particle velocity by LDV with weak flow	Philippe ROUQUIER, Bruno GAZENGEL, Olivier RICHOUX		Bruno	GAZENGEL	bruno.gazengel@univ-lemans.fr	LAUM	France
1083	Experimental investigations of boundary layer suction in a large index refraction channel	Stefan Becker	wall flows	Stefan	Becker	sbecker@lstm.uni-erlangen.de	University Erlangen	Germany
1084	Velocity Measurements of Particles in the Impeller of a Centrifugal Slurry Pump	J.R. Kadambi, M. Mehta, J. Sankovic, G. Addie and R. Visintainer	Turbomachinery	Jaikrishnan	Kadambi	jxk11@cwru.edu	Case Western Reserve University	U.S.A.
1085	Experimental Studies of Laser-Induced Hydrodynamics and Bubbles by PIV and PDA	Xishi WANG, Zhenlan XUE and Huihe QIU	Two Phase Flows	Huihe	Qiu	meqiu@ust.hk	Hong Kong University of Science and Technology	Hong Kong SAR, China
1086	INVESTIGATION ON WAVE TRANSFORMATION AND BREAKING OVER AN OBSTACLE	Ferrari S. and Querzoli G.	Free-Surface Flows	Giorgio	Querzoli	querzoli@unica.it	Università di Cagliari	ITALIA
1087	Blurring by Defocusing Technique for 3-D Monocular Particle Tracking Velocimetry	V.Zubtsov	Novel Measurement Methods	Vladimir	Zubtsov	zub@mailbox.as	Energy Systems Institute	Russia
1093	Two-Color Particle Tracking Velocimetry and Thermometry	A.Mikheev, V.Zubtsov	Optical methods for thermodynamic properties	Vladimir	Zubtsov	zub@mailbox.as	Energy Systems Institute	Russia
1094	Large Scale Particle Imaging Velocimetry of Mixed Convection Aircraft Cabin Airflow	J. Bosbach, J. Penneçot, C. Wagner, M. Raffel, T. Lerche, S. Repp		Johannes	Bosbach	johannes.bosbach@dlr.de	German Aerospace Center (DLR)	Germany
1095	Delivery of high peak power light through hollow waveguide fibres for particle image velocimetry	J Parry, T J Stephens, J D Shephard, Y. Matsuura†, Y. W. Shi†, M. Haste†, D. P. Towers, M. Miyagi†, J. D. C. Jones and D. P. Hand		Jonathan	Parry	jpp1@hw.ac.uk	Heriot Watt University	UK
1096	Investigation of secondary droplet characteristics produced during wall impact	B. Richter and K. Dullenkopf	Sprays for engines	Boyke	Richter	boyke.richter@its.uni-karlsruhe.de	University of Karlsruhe	Germany

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1097	3-D flow around an obstacle in narrow channel via Digital holographic PTV	Shin-ichi Satake, Tomoaki Kunugi, Kazuho Sato, Tomovoshi Ito	PIV Signal and Data Processing	Shin-ichi	Satake	satake@te.noda.tus.ac.jp	Tokyo University of Science	Japan
1101	Flowfield Development in Narrow Channels via Acoustic Streaming	Q. Wan, T. Wu, J. Chastain, W. L. Roberts, A. V. Kuznetsov, and P. I. Ro		William	Roberts	wlrobert@eos.ncsu.edu	North Carolina State University	USA
1102	The Investigation of Acoustic Damping Rate in Helium - Argon Mixtures	Y. Li, W. L. Roberts, and M. S. Brown	Optical methods for thermodynamic properties	William	Roberts	wlrobert@eos.ncsu.edu	North Carolina State University	USA
1103	A description of the vortical skeleton behind a finite-span flapping wing	Parker, K., von Ellenrieder, K. D and Soria, J 1. Laboratory for Turbulence Research in Aerospace & Combustion Mechanical Engineering, Monash University Clayton, Victoria, 3800 AUSTRALIA 2. Dept. Ocean Engineering Florida Atlantic University Dania Beach, FL 33004-3023, USA	Vortices and Vortical Flows, Aerodynamic Flows	Kamalluddin	Parker	Kamal.Parker@eng.monash.edu.au	Monash University	Australia
1104	Reynolds Number Effect on Vortical Structures of Various Scales in a Self-preserving Turbulent Flow	Akira RINOSHIKA (Hui LI), Yu ZHOU, Masami NAKANO	Vortices and Vortical Flows or Free flows	AKIRA	RINOSHIKA	rinosika@yz.yamagata-u.ac.jp	Yamagata University	JAPAN
1105	Application of Scanning Stereo PIV: 3D Vortical Structure in a Turbulent Round Jet	Toshio HORI, Jun SAKAKIBARA		Jun	Sakakibara	sakakiba@kz.tsukuba.ac.jp	Institute of Engineering Mechanics and Systems	Japan
1106	LDA Measurement in Roughness Sublayer beneath Turbulent Boundary Layer Developed over Two-dimensional Square Rough Surface	Takatsugu KAMEDA Shinsuke MOCHIZUKI Hideo OSAKA	Wall flows	Shinsuke	Mochizuki	shinsuke@yamaguchi-u.ac.jp	Yamaguchi University	Japan

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1107	Experimental Investigation of Interfacial-Tension Generated Stress on Miscible Two-Liquid Fluids in Microfluidic Device	Yasuhiko Sugii, Koji Okamoto, Akihide Hibara, Manabu Tokeshi and Takehiko Kitamori		Yasuhiko	Sugii	sugii@utnl.jp	University of Tokyo	Japan
1108	Evolution of anisotropy over a flat plate with suction	Amit Agrawal, Lyazid Djenidi, R.A. Antonia		Amit	Agrawal	Amit.Agrawal@newcastle.edu.au	University of Newcastle	Australia
1109	Comparison of PLIF and spark equivalence ratio diagnostics during direct injection of methane in air.	M.Bellenoue, S. Malheiro, A. Claverie and S.A.Labuda		BELLENOUE	Marc	marc.bellenoue@lcd.ensma.fr	Laboratoire de Combustion et de Détonique	France
1110	Experimental study of a particulate turbulent confined jet by optical methods	L. Vignal L. Ben V. Roig R. Bazile J. Borée	Two-Phase Flow	Vignal	Laure	vignal@imft.fr	IMFT, Institut de Mécanique des Fluides de Toulouse	France
1111	Phase evaluating laser Doppler velocity profile sensor with sub-micrometer spatial resolution	Lars Büttner Jürgen Czarske	Techniques for micro-scale and nano-scale flow	Lars	Buettner	lb@lzh.de	Laser Zentrum Hannover e.V.	Germany
1112	Time-Resolved PIV Measurement on Turbulent Wake Flow over Critical Reynolds Number for CO2 Ocean Sequestration	Shohji TSUSHIMA, Ryoichi MURAOKA, Shuichiro HIRAI		Shohji	TSUSHIMA	tsushima@mech.titech.ac.jp	Tokyo Institute of Technology	Japan
1113	High-precision sub-pixel interpolation in PIV/PTV image processing	Holger Nobach, Nils Damaschke and Cam Tropea	PIV/PTV image processing	Holger	Nobach	hnobach@nambis.de	TU Darmstadt	Germany
1115	Evaluation of temperature gradients within combusting droplets in linear stream using two colors laser-induced fluorescence	G. Castanet, A. Delconte, F. Lemoine, L. Mees, G. Grehan		Fabrice	Lemoine	flemoine@ensem.inpl-nancy.fr	LEMETA-CNRS	France
1116	Diesel spray formation, autoignition and soot production at elevated in-cylinder pressures	Cyril Crua, Morgan Heikal, Martin Gold		Cyril	Crua	c.crua@brighton.ac.uk	University of Brighton	United Kingdom

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1117	Simultaneous OH and HCHO LIF measurements in HCCI engine	A. Fayoux : : PSA Peugeot Citroën +Laboratoire EM2C,Ecole Centrale Paris and CNRS S. Dupre : : PSA Peugeot Citroën O.Pajot : : PSA Peugeot Citroën J.C. Rolon : Laboratoire EM2C,Ecole Centrale Paris and CNRS	engine	Amelie	Fayoux	amelie.fayoux@mps.com	PSA Peugeot Citroen	France
1118	Precessional flow macro-instabilities in stirred vessels: study of variation in two locations through conditional sampling phase-averaging and cross-correlation approaches	Martina Micheletti Michael Yianneskis		Michael	Yianneskis	michael.yianneskis@kcl.ac.uk	King's College London	United Kingdom
1120	Simultaneous Measurement of Velocity and Oxygen Distributions using PIV-PSP Hybrid System	S. Abe, S.D. Hong, H. Madarame and K. Okamoto	Novel measurement OR PSP	Koji	Okamoto	okamoto@tokai.t.u-tokyo.ac.jp	The University of Tokyo	JAPAN
1121	Development of a miniaturized LDA coupled with hot-film anemometry for further applications in fluid mechanics	S.Bourmich, C.Doering, S.Eckert, C.Egbers, L.Jehring, J.Pflanz, C.Schultz, D.Suchland	Novel Measurement Methods	Lothar	Jehring	jehring@tu-cottbus.de	Brandenburgian Technical University Cottbus	Germany
1124	Cross Flow Investigation by Stereoscopic PIV measurements	L. David, R. Fraticelli, D. Calluau, J. Borée	JET, Vortices structures, mass transfer	DAVID	Laurent	Laurent.David@univ-poitiers.fr	University of Poitiers	France
1127	Acoustic velocity extraction in mean flow by Laser Doppler Velocimetry	BOUCHERON Romuald, BAILLIET Hélène, VALIERE Jean-Christophe, HERZOG Philippe.	n°1 : LDV Signal and Data Processing. n°2:Aerodynamic Flows	BOUCHERON	Romuald	romuald.boucheron@lea.univ-poitiers.fr	Laboratoire d'Etudes Aérodynamiques	POITIERS Cedex
1128	PIV spectral optimization for the study of turbulent flow	FOUCAUT Jean-Marc STANISLAS Michel		Jean-Marc	FOUCAUT	jean-marc.foucaut@ec-lille.fr	Laboratoire de Mécanique de Lille	FRANCE
1129	Flame front detection and dynamics using PIV in a turbulent premixed flame	Shigeru Tachibana, Laurent Zimmer, Kazuo Suzuki	Combustion and detonation	Shigeru	Tachibana	tachibana.shigeru@jaxa.jp	Japan Aerospace Exploration Agency	JAPAN

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1130	Phase average velocity field in the vicinity of an isolated wheel model	Laurent-Emmanuel BRIZZI Alain NOEL Vincent HERBERT		BRIZZI	Laurent-Emmanuel	Laurent.brizzi@lea.univ-poitiers.fr	Laboratoire d'Etudes Aérodynamiques, Université de Poitiers	France
1131	Glare-Point Velocimetry and Sizing (GPVS): introduction of a new optical 2D measuring technique for bubbly flows	Sam Dehaeck Jeroen van Beeck M.L. Riethmuller	Two-phase flow instrumentation	Sam	Dehaeck	dehaeck@vki.ac.be	Von Karman Institute	Belgium
1133	PIV INVESTIGATION OF INTERNAL COOLING CHANNELS FOR GAS TURBINES, WITH 45° INCLINED RIBS	Roberto Garcia Casado, Mylene Thierry, Roberto Fedrizzi, Alberto Di Sante, Tony Arts	Turbomachinery	Roberto	Garcia Casado	garciaca@vki.ac.be	von Karman Institute for Fluid Dynamics	Belgium
1134	Preliminary Investigations on Thermometry in Thermal Flows via Transient Grating Spectroscopy (TGS)	Friedrich Bake Bernhard Lehmann		Friedrich	Bake	friedrich.bake@dlr.de	German Aerospace Center (DLR) - Institute of Propulsion Technology	Germany
1135	Two-frequency Planar Doppler Velocimetry	Tom O.H. Charrett, Helen D. Ford, David S. Nobes and Ralph P. Tatam	Novel Measurement Methods	Ralph	Tatam	r.p.tatam@cranfield.ac.uk	Cranfield University	UK
1136	Measurement of depth-averaged concentration fields in microchannels by means of a fluorescence intensity method	R. Matsumoto, H. Farangis Zadeh, P. Ehrhard (speaker)		Peter	Ehrhard	p.ehrhard@iket.fzk.de	Research Centre Karlsruhe	Germany
1137	Interaction of the flame with acoustic and bulk mode instabilities in a pre-mixed dump combustor.	D. B. Hann and J. A. Fitzpatrick	combustion	David	Hann	hannd@tcd.ie	Trinity College Dublin	Ireland
1138	Professor	Xin Zhang	either vortices and vortical flow or aerodynamic flows	Xin	Zhang	xzhang@soton.ac.uk	University of Southampton	UK
1140	Application of Self-Calibration-Stereo-PIV in Enclosed Measurement Volumes	Bernhard Wieneke	Stereo-PIV	Bernhard	Wieneke	b.wieneke@lavisio.n.de	LaVision GmbH	Germany
1141	Experimental study of the linear phase of the vortex ring instability	A. Dazin P. Dupont M. Stanislas	Vortices and Vortical flows	Antoine	Dazin	antoine.dazin@ec-lille.fr	ENSAM	France

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1142	Velocity and temperature measurements in a large-scale Rayleigh-Bénard-experiment using LDA and micro thermistors	C. Resagk, R. du Puits, A. Thess, F.H. Busse, A. Tilgner	Complex Flows, Wall Flows	Christian	Resagk	christian.resagk@tu-ilmenau.de	Ilmenau University of Technology	Germany
1151	The Diffraction-Shadow Technique of the Single Particle or Bubble	B.S. Rinkevichius, I.L. Raskovskaya, N.M.Skornyakova, A.V.Tolkachev.	two phase flow instrumentation	Bronyus	Rinkevichyus	RinkevichiusBS@mpi.ru	Moscow Power Engineering Institute(Technical University)	Russia
1152	Visualisation of pulverised fuel in a pneumatic conveying junction	J Roberts, P Rogers, D Giddings and A Aroussi	Two-Phase Instrumentation	Jacob	Roberts	eaxjtr@nottingham.ac.uk	University of Nottingham	United Kingdom
1153	Measurement of the Aerodynamic Forces on a Small Particle	C.M. Kolera, F.T.M. Nieuwstadt, J.C.R. Hunt Laboratory for Aero & Hydrodynamics, Delft University of Technology, Leeghwaterstraat 21, 2628-CA, Delft, Netherlands	Novel Measurement Methods	Chittiappa	Kolera	Chittiappa@wbmt.tudelft.nl	Delft University of Technology	Netherlands
1154	Dr	Ammourah S Aroussi A Vloeberghs M	Biomechanics or diffusive flows	Abdelwahab	Aroussi	abdelwahab.aroussi@nottingham.ac.uk	Nottingham University	ENGLAND
1155	Dr	Ammourah S Aroussi A Vloeberghs M	Biomechanics or diffusive flows	Abdelwahab	Aroussi	abdelwahab.aroussi@nottingham.ac.uk	Nottingham University	ENGLAND
1156	Dr	Ammourah S Aroussi A Vloeberghs M	Biomechanics or diffusive flows	Abdelwahab	Aroussi	abdelwahab.aroussi@nottingham.ac.uk	Nottingham University	ENGLAND
1157	Dynamic 3D stereoscopic PIV and schlieren investigation of turbulent flow structures generated by laser induced plasma	Christian J. Kähler		Christian	Kähler	c.kaehler@tu-bs.de		Germany
1160	Dr	Ammourah S Aroussi A Vloeberghs M	Biomechanics or diffusive flows	Abdelwahab	Aroussi	abdelwahab.aroussi@nottingham.ac.uk	Nottingham University	ENGLAND
1161	Investigation of film flow by means of μ -PIV	P. Schober, B. Richter, O. Schäfer and K. Dullenkopf	Two-Phase Flow	Peter	Schober	peter.schober@its.uni-karlsruhe.de	Universität Karlsruhe	Germany
1163	Dr	Ammourah S Aroussi A Vloeberghs M	Biomechanics or diffusive flows	Abdelwahab	Aroussi	abdelwahab.aroussi@nottingham.ac.uk	Nottingham University	ENGLAND

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1168	Dynamic evaluation of time-resolved PIV recordings	Rainer Hain, Christian Kähler		Rainer	Hain	r.hain@tu-bs.de		Germany
1170	An investigation of passive scalar transport in canopy turbulence using LDA and LIF	Davide Poggi, Monica Deval, John Albertson, Luca Ridolfi, and Gabriel Katul	Novel Measurement Methods, wall flows and scalar diagnostics	Davide	Poggi	davide.poggi@duke.edu		NC, USA
1171	The use of a deformable weight function and of advanced validation procedures in PIV	Marrazzo, De Gregorio, Romano	PIV Signal and data processing	Giovanni Paolo	Romano	romano@dma.ing.uniroma1.it	University "La Sapienza", Roma	Italy
1172	EXPERIMENTAL STUDY OF TWO DIMENSIONAL TURBULENCE USING FEATURE TRACKING TECHNIQUE	Stefania Espa Massimo Miozzi Antonio Cenedese	Novel Measurement Methods	Espa	Stefania	stefania.espa@uniroma1.it	University La Sapienza	Italy
1173	A Novel Technique to Improve Near Wall Resolution in PIV using Cylindrical Lenses	V.S.R. Somandepalli M.G. Mungal Mechanical Engineering Department Stanford University, Stanford 94309-3032, USA		Vijay	Somandepalli	vijay@stanford.edu	Stanford University	USA
1176	Development of an Enhanced PDA-System for Simultaneous Measurement of Both Phases in Two-Phase Flows	M. Hehle, O. Schäfer, K. Dullenkopf, S. Wittig	Two-Phase Flow Instrumentation	Marc	Hehle	marc.hehle@its.uni-karlsruhe.de	Universitaet Karlsruhe	Germany
1177	Particle Image Velocimetry using Feature Tracking and Delaunay Tessellation	Massimo Miozzi	Novel Measurement Methods	Massimo	Miozzi	massimo.miozzi@uniroma1.it	University of Rome "La Sapienza"	Italy
1178	PENETRATIVE CONVECTION IN STRATIFIED FLUIDS: VELOCITY MEASUREMENTS BY IMAGE ANALYSIS TECHNIQUES	Antonio Cenedese, Massimo Miozzi and Monica Moroni		Monica	Moroni	monica.moroni@uniroma1.it	University of Rome "La Sapienza"	Italy
1179	Cross Sectional Area Difference Method For Backscatter Particle Sizing	N. Damaschke, H. Nobach, N. Semidetnov, C. Tropea		Nils	Damaschke	damaschke@sla.tu-darmstadt.de	TU-Darmstadt	Germany
1180	Dr.	Humberto Chaves		Humberto	Chaves	Humberto.Chaves@imfd.tu-freiberg.de	Technical University Freiberg	Germany
1181	Non-intrusive measurements of transonic cavity flows	S A Ritchie Dr N J Lawson Dr K Knowles	Separated Flows	Simon	Ritchie	s.a.ritchie@rmcs.cranfield.ac.uk	RMCS Shrivenham/Cranfield University	UK

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1182	An experimental study of pulsating flow past a heated flat plate	H.C. Mak, S. Balabani		Stavroula	Balabani	stavroula.balabani@kcl.ac.uk	King's College London	United Kingdom
1184	PARTICLE EJECTION VELOCITY DISTRIBUTION FROM 2D BUBBLING FLUIDIZED BED	Santana D., Nauri S., Lecuona A., Nogueira J.		Domingo	Santana	dsantana@ing.uc3m.es	Universidad Carlos III de Madrid	Spain
1185	Micro-DGV measurements in the sheer layer above a flat plate	I. Roehle, C. Willert	Micro Fluid Mechanics	Ingo	Roehle	Ingo.Roehle@DLR.de	German Aerospace Center	Germany
1186	Dipl.-Ing., Dipl.-Phys.	Jens Ortmanns, Christian J. Kähler		Jens	Ortmanns	j.ortmanns@tu-bs.de	TU Braunschweig	Germany
1187	Experimental Investigation of a New Combustor Model for GasTurbines	M.J. Melo(1), J.M.M. Sousa(1) and M. Costa(1) and Y. Levy(2) (1) Instituto Superior Técnico, Mechanical Engineering Department, Av. Rovisco Pais, 1049-001 Lisboa, Portugal. (2) Technion – Israel Institute of Technology, Technion City, Haifa 32000, Israel.		Mário	Costa	mcosta@navier.ist.utl.pt		Portugal
1188	Steady and unsteady flow investigation using Pressure Sensitive Paint (PSP)	Rolf H. Engler	non intrusive measurement techniques	Rolf H.	Engler	rolf.engler@dlr.de	DLR Göttingen, Germany	Germany
1189	Two Dimensional Adaptive Filters for High Resolution PIV Data Derivatives	A. Acosta, A. Lecuona and J. Nogueira		Antonio	Acosta	aacosta@ing.uc3m.es	Universidad Carlos III de Madrid	SPAIN
1190	Dual-plane PIV technique to resolve complete velocity gradient tensor in a turbulent boundary layer	Bharathram Ganapathisubramani Ellen K longmire Ivan Marusic Stamatios Pothos	Wall flows, Novel measurement methods	Ellen	Longmire	elle@aem.umn.edu	Univeristy of Minnesota	USA
1191	A Long-distance Forward-scattering Micro-scale Particle Image Velocimetry (LFM-PIV)	L. Gui, R.D. Hasse and J.M. Seiner National Center for Physical Acoustics The University of Mississippi, University, MS 38677, USA		Lichuan	Gui	lcgui@olemiss.edu		USA

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1192	LDA measurements of flow velocity through a standard analyser used for quality control of medical aerosol products	P.J. Mendes(1,2), J.F. Pinto(2) and J.M.M. Sousa(1) (1) Instituto Superior Técnico – Mechanical Engineering. Dept. Av. Rovisco Pais, 1049-001 Lisboa, Portugal (2) Faculdade de Farmácia of Lisbon University – Pharmaceutical Technology Dept. Av. Prof. Gama Pinto 1649-003 Lisboa, Portugal		João	Melo de Sousa	msousa@alfa.ist.utl.pt	Instituto Superior Técnico	Portugal
1193	Application of Doppler Global Velocimetry in Cryogenic Wind Tunnels	C. Willert, G. Stockhausen, J. Klinner, M. Beversdorff, C. Lempereur, P. Barricau, J. Quest, U. Jansen	Doppler Global Velocimetry, Aerodynamic flows	Chris	Willert	chris.willert@dlr.de	German Aerospace Center (DLR)	Germany
1194	FLOW STUDY IN A BLOOD FILTER USING PARTICLE IMAGE VELOCIMETRY STUDY AND DYE INJECTION TECHNIQUES	Rudolf Huebner Enrico Primo Tomasini Paolo Castellini Marcos Pinotti	Biological and Complex Flows	Rudolf	Huebner	rudolf01@planetarium.com.br	Universidade Federal de Minas Gerais	Brazil
1195	VELOCITY MEASUREMENT IN AN ARTERIAL BLOOD FILTER USING THE LASER DOPPLER ANEMOMETRY TECHNIQUE	Rudolf Huebner Enrico Primo Tomasini Nicola Paone Marcos Pinotti Geraldo Augusto Campolina França	Biological and Complex Flows	Rudolf	Huebner	rudolf01@planetarium.com.br	Universidade Federal de Minas Gerais	Brazil
1197	Limits on the resolution of correlation PIV iterative methods	J. Nogueira, A. Lecuona, P. A. Rodriguez	Novel Measurement Methods	Jose	Nogueira	goriba@ing.uc3m.es	Universidad Carlos III de Madrid	Spain
1198	Experimental Study of a Lifted LPP Flame: LDV, CH Chemiluminescence, PLIF-Acetone Measurements	Guillaume Martins Gilles Cabot Benoit Taupin Abdelkrim Boukhalfa	Turbomachinery	Gilles	Cabot	gilles.cabot@coria.fr	CORIA-UMR CNRS 6614	France

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1199	Time resolved DGV based on laser frequency modulation	H. Müller, M. Eggert, N. Pape, D. Dopheide, J. Czarske, L. Büttner, T. Razik	Multi-Point Measurement Techniques	Harald	Müller	harald.mueller@ptb.de	Physikalisch-Technische Bundesanstalt	Germany
1200	Use of Particle Image Velocimetry (PIV) in the study of Conical RoofEdge Vortices	M. Gamboa-Marrufo, C. J. Wood, R. Belcher		Mauricio	Gamboa-Marrufo	mauricio.gamboa-marrufo@eng.ox.ac.uk	University of Oxford	UK
1201	Flow structures in large-angle conical diffusers measured by PIV	Knud Erik Meyer, Lars Nielsen and Niels Finderup Nielsen	Separated Flows	Knud Erik	Meyer	kem@mek.dtu.dk	Technical University of Denmark	Denmark
1202	Automated mask generation for PIV	Ulrich Scholz Christian Kähler		Ulrich	Scholz	u.scholz@tu-bs.de		Germany
1203	Turbulent dividing flow on 60° bifurcations	R. Maia, N. Pereira da Costa, M. F. Proença, F. T. Pinho	Separated Flows	Rodrigo	Maia	rmaia@fe.up.pt	Faculdade de Engenharia da Universidade do Porto	Portugal
1205	Time-Average Measurement of Velocity, Density, Temperature, and Turbulence Intensity Using Molecular Rayleigh Scattering	Amy F. Mielke Richard G. Seasholtz Kristie A. Elam Jayanta Panda		Amy	Mielke	Amy.F.Mielke@nasa.gov	NASA Glenn Research Center	USA
1206	Kilohertz PIV/PLMS of low-gravity turbulent flames in a drop tower.	Boxx, I.G., Idicheria, C.A., Clemens, N.T.		Isaac	Boxx	igboxx@mail.utexas.edu	University of Texas at Austin	USA
1211	Turbulent Flow Over a Sphere – An Approach to Erosion	R.F. Aleixo; R. Maia	Free-Surface Flows	Rodrigo	Maia	rmaia@fe.up.pt	Faculdade de Engenharia da Universidade do Porto	Portugal
1215	Studies of hydroxyl distribution and soot formation in turbulent spray flames	James R. Gord Terrence R. Meyer Sukesh Roy Sivaram P. Gogineni	Combustion and Detonation	James	Gord	james.gord@wpafb.af.mil	Air Force Research Laboratory	USA
1216	Particle Image Velocimetry Measurements of Velocity, Acceleration, and Shear Within Cell Growth Experimental Setup	Stephen M. Walker		Stephen	Walker	Stephen.M.Walker@nasa.gov	NASA Ames Research Center	USA
1218	Three-Dimensional Topology of Hairpin Packet Structure in Turbulent Boundary	Kyung Chun Kim, Sung Hoon Kwon	Turbulence	Kyung Chun	Kim	kckim@pusan.ac.kr	Pusan National University	Korea(South)
1222	A Dynamic PIV measurement of Instantaneous Flow with Micro-Second Order	Masaaki ISHIKAWA, Koji OKAMOTO		Masaaki	ISHIKAWA	ishikawa@utnl.jp	Nuclear Engineering Research Laboratory	Japan

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1223	Analysis of fluid-structure interaction with PIV and SLV; the case of flat plate in a converging channel flow	Hannu Eloranta, Tero Pärssinen and Pentti Saarenrinne		Hannu	Eloranta	hannu.eloranta@tut.fi	Tampere University of Technology	FINLAND
1224	Dr	Aroussi A	Novel techniques	Abdelwahab	Aroussi	abdelwahab.aroussi@nottingham.ac.uk	Nottingham University	UK
1225	Simultaneous measurements of velocity field and flame contour in stagnating turbulent premixed flames by means of PIV	Jean-Louis CHAMPION Michel CHAMPION Xavier CORON	Combustion and Detonation	Xavier	Coron	xavier.coron@lcd.ensma.fr	Laboratoire de Combustion et de Détonique	FRANCE
1226	Novel Technique for LDV burst signal frequency estimation	C. Fechtmann, T. Wedemeyer, M. Raithel	LDV Signal Processing	Carsten	Fechtmann	fecht@zarm.uni-bremen.de	ZARM - Center for Applied Space Technology and Microgravitation	Germany
1227	Improvements in the accuracy of a hybrid PIV-PTV algorithm	Stitou A ,Theunissen R., Riethmuller M.L.	PIV POST-PROCESSING (or PROCESSING)	Michel	Riethmuller	riethmuller@vki.ac.be	von Karman Institute for Fluid Dynamics	Belgium
1229	Numerical Error Estimation in Particle Tracking Measurement behind a Shock Wave	Youhei Shinohara, Kazuyuki Toda and Makoto Yamamoto	Compressible Flow	Makoto	Yamamoto	yamamoto@rs.kagu.tus.ac.jp	Tokyo University of Science	Japan
1230	Characterization of the flow field in a stepped spillway by PIV	A. Amador, G. van der Graaf, M. Sanchez-Juny, F. Sanchez-Tembleque	Separated Flows	Antonio	Amador	antonio.amador@upc.es	Polytechnic University of Catalunya	Spain
1232	Natural convection in rib-roughened vertical channels with asymmetric heating	Dario Ambrosini, Domenica Paoletti, Giovanni Tanda	Optical Methods for thermodynamic s properties	Dario	Ambrosini	dario@ing.univaq.it	University of L'Aquila	Italy
1233	Flow rate measurement for gas under high pressure based on LDV	H. Müller, V. Strunck, R. Kramer, B. Mickan, D. Dopheide, H.-J. Hotze	Novel Measurement Methods	Harald	Müller	harald.mueller@ptb.de	Physikalisch-Technische Bundesanstalt	Germany

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1234	Measurements of Turbulent Premixed Flames by Simultaneous CH-OH PLIF and Stereoscopic PIV	Mamoru TANAHASHI, Gyung-Min CHOI, Shinichirou MURAKAMI, Yuichi FUKUCHI and Toshio MIYAUCHI		Mamoru	Tanahashi	mtanahas@mes.titech.ac.jp	Tokyo Institute of Technology	JAPAN
1235	LDV MEASUREMENTS OF STATIONARY STALL IN AN IMPELLER OF A CENTRIFUGAL VOLUTE PUMP	David A. Johnson Nicholas Pedersen Christian Brix Jacobsen	Turbomachinery	David A.	Johnson	da3johns@mecheng1.uwaterloo.ca	University of Waterloo	Canada
1236	PIV Measurements of the Flow Field inside a Enclosed Cubical	M.A.H. Mamun, D.A. Johnson, W.H. Leong, K.G.T. Hollands	Complex Flows, Convecting Flows	David A.	Johnson	da3johns@mecheng1.uwaterloo.ca	University of Waterloo	CANADA
1239	Digital Holographic Particle Image Velocimetry -Optimizing particle size and seeding density	T.A. Ooms, V.S.S. Chan, W.D. Koek, J. Westerweel & J.J.M. Braat		Thomas	Ooms	thomas@dutw1479.wbmt.tudelft.nl	Delft University of Technology	The Netherlands
1240	Wall shear stress imaging in turbulent flows using microstructured surfaces with flexible micropillars	Brücker, Ch.; Spatz, J.; Schröder, W.		Christoph	Bruecker	bruecker@aia.rwth-aachen.de	Aerodynamisches Institut	Germany
1241	The Time-Resolved Stereoscopic Digital Particle Image Velocimetry up to 26.7 kHz	Mamoru TANAHASHI, Yuichi FUKUCHI, Gyung-Min CHOI, Katsukiho FUKUZATO and Toshio MIYAUCHI		Mamoru	Tanahashi	mtanahas@mes.titech.ac.jp	Tokyo Institute of Technology	JAPAN
1242	Simultaneous Spatial and Temporal Resolved Laser-Induced Incandescence to Study the Soot Particles Formation	A. BOIARCIUC, F. FOUCHER, B. MOREAU, O. PAJOT, C. MOUNAÏM-ROUSSELLE		Andrei	BOIARCIUC	andrei.boiarciuc@univ-orleans.fr	LME	France
1243	Errors due to multiple scattering in spray imaging measurements: simulation of polydisperse sprays	E Berrocal and M Jermy		Mark	Jermy	eb0372@ecs.pc.cranfield.ac.uk	Cranfield University	United Kingdom

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1244	Determination of Turbulent Scales in Subsonic and Supersonic Jets from LDV Measurements	O.Power1, F.Kerhave2, J.A.Fitzpatrick1, P.Jordan2 1- Mechanical Engineering Dept., Trinity College, Dublin, Ireland. 2- Laboratoire d'Etudes Aerodynamique, University of Poitiers, France.		John	Fitzpatrick	john.fitzpatrick@tcd.ie	Trinity College Dublin	Ireland
1245	A Comparison of Correlation Slotting and Sample-and-Hold for Determination of Cross Power Spectra from LDV Measurements	L.Simon1, J.A.Fitzpatrick2, P.Jordan3 1- LAUM, Universite du Maine, Le Mans, France. 2- Mechanical Engineering Dept., Trinity College, Dublin, Ireland. 3- Laboratoire d'Etudes Aerodynamique, University of Poitiers, France.		John	Fitzpatrick	john.fitzpatrick@tcd.ie	Trinity College Dublin	Ireland
1246	Spatio-temporal correlations in turbulent flows	L.Chatellier, J. Fitzpatrick Mechanical Engineering Dept., Trinity College, Dublin, Ireland.		John	Fitzpatrick	john.fitzpatrick@tcd.ie	Trinity College Dublin	Ireland
1247	PIV Measurements and Convective Heat Transfer of an Impinging Air Jet	Tadhg S. O'Donovan Darina B. Murray Andrew A. Torrance		Tadhg	O'Donovan	odonovts@tcd.ie	Trinity College	Ireland
1248	Dynamics of Separation Bubbles Formed on Rounded Edges	S. COURTINE A. SPOHN	Separated flows	Sébastien	COURTINE	courtine@ensma.fr	Laboratoire d'Etudes Aérodynamiques - E.N.S.M.A.	FRANCE

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1249	Investigation of the density and velocity distribution of a wing tip vortex by means of stereoscopic Background Oriented Schlieren Method (BOS) and stereoscopic Particle Image Velocimetry (PIV)	F. Klinge, T. Kirmse, J. Kompenhans	# Optical methods for thermodynamic properties # Aerodynamic Flows# Novel Measurement Methods# Compressible Flows	Falk	Klinge	Falk.Klinge	Deutsches Zentrum für Luft- und Raumfahrt (German Aerospace Center) DLR	Germany
1250	Simultaneous Measurement of Velocity and Temperature in Thermal Mixing Shear Layer using LDV and Cold Wire	Masafumi Hirota, Hiroshi Nakayama Hideo Asano Yasuhiro Mizuno Shunsaku Hirayama		Hiroshi	Nakayama	naka@mech.nagoya-u.ac.jp	Nagoya University	Japan
1251	LDA and PIV Measurements and Numerical Simulation on In-Cylinder Flow under Steady State Flow Condition	Tomokazu, Nomura Yasushi, Takahashi Tsuneaki, Ishima Tomio, Obokata	engines	Tuneaki	Ishima	ishima@me.gunma-u.ac.jp	Gunma University	Japan
1252	Measurement of the Conditioned Turbulence and Temperature Field of a Ring Stabilized Bunsen Type Premixed Burner Using Planar Laser Rayleigh Scattering and Stereo Particle Image Velocimetry	Sebastian Pfadler, Michael Löffler, Friedrich Dinkelacker, Alfred Leipertz	Combustion and Detonation (alt.: PIV)	Sebastian	Pfadler	sp@litt.uni-erlangen.de	Lehrstuhl für Technische Thermodynamik	Germany
1254	Temporal Dependency Of Air Entrainment To Liquid Flow Rate Variations For Gzoline Direct Injection Sprays.	G. Delay1, R. Bazile1, G Charnay1 , HJ Nuglisch2 1 Institut de Mécanique des Fluides de Toulouse, France 2 Siemens VDO Automotive, Toulouse, France	Sprays for Engines	Delay	Guillaume	delay@imft.fr	Institut de Mécanique des Fluides de Toulouse	France
1255	Determination of the measurement volume diameter in the PDA technique	E. Palacios*, M. de Vega, A. Lecuona, P.A. Rodríguez		Esther	Palacios Lorenzo	mepalaci@mi.upm.es	Universidad Carlos III de Madrid	Spain
1256	Coaxial Jet Control for Lifted Flame Stabilization with Arrayed Miniature Actuators	Naoki Kurimoto, Yuji Suzuki and Nobuhide Kasagi		Naoki	Kurimoto	kurimoto@thtlab.t.u-tokyo.ac.jp	The University of Tokyo	Japan
1258	Development of simultaneous measurement of droplet size and 3D velocity in spray	Zama, Y. Kawahashi, M. Hirahara, H.		Yoshio	Zama	dolphine@lamb.mech.saitama-u.ac.jp		JAPAN

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1259	Highly spatial resolved measurements of turbulent boundary layers	Büttner, L. Shirai, K. Razik, T. Czarske, J. Müller, H. Dopheide, D. Becker, S. Lienhart, H. Durst, F.	Techniques for micro-scale and nano-scale flow	Buettner	Lars	lb@lzh.de	Laser Zentrum Hannover e.V.	Germany
1261	Development of Doppler Global Velocimetry (DGV) measurement devices and their application to gas turbine combustor	M. Fischer, G. Stockhausen, J. Heinze, M. Müller, R. Schodl Institute of Propulsion Technology, German Aerospace Center (DLR) M. Blomeyer, S. Buch, L. Terjung Siemens PG, Mülheim /Ruhr	Doppler Global Velocimetry / Combustion	Michael	Fischer	Michael.Fischer@dlr.de	German Aerospace Center (DLR)	Germany
1262	The investigation of heat transfer by Background Oriented Shlieren Method	E. M. Popova, B.S. Rinkevichius, N.M. Skornyakova, A.V.Tolkachev		Nadezhda	Skornyakova	SkorniakovaNM@mpei.ru	Moscow Power Engineering Institute (Technical University)	Russia
1263	Flow visualization and Particle Image Velocimetry of Highly Underexpanded Supersonic Free Jets	M. Havermann, J. Haertig, C. Rey, A. George	Compressible Flows	Marc	Havermann	havermann@isl.tm.fr	French-German Research Institute of Saint-Louis	France
1265	Investigation on trailing-edge noise sources by means of high-speed PIV	A. Schröder, U. Dierksheide, J. Wolf, J. Kompenhans	wall flows	Andreas	Schroeder	andreas.schroeder@dlr.de	DLR - German Aerospace Centre	Germany
1266	PDA measurement of particle dispersion in confined swirling air flows with and without recirculation	J. Lipowsky M. Sommerfeld	Two-Phase Flows	Justus	Lipowsky	justus.lipowsky@iw.uni-halle.de	Martin-Luther-Universität Halle-Wittenberg	Germany
1268	Digital Image Plane Holography (DIPH) for two-phase flow diagnostics in multiple planes	V. Palero, J. Lobera and P. Arroyo		Virginia	Palero	palero@unizar.es	Universidad de Zaragoza	Spain
1269	An experimental observation of nonlinear travelling waves in turbulent pipe flow.	Björn Hof, Cas W.H.van Doorne, Jerry Westerweel & Frans T.M. Nieuwstadt	Wall Flows / Vortices and Vortical Flows	Bjoern	Hof	b.hof@wbmt.tudelft.nl	Delft University of Technology	Netherlands
1272	Time-Resolved Digital Particle Image Velocimetry (DPIV): Error analysis	K. Anandarajah G. K. Hargrave N. A. Halliwell	PIV Signal and Data Processing	Kuberan	Anandarajah	K.Anandarajah@lboro.ac.uk	Loughborough University	United Kingdom

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1273	Coherent Structures in Critical Wing Flows	K. Kindler, H.-P. Kreplin		Kolja	Kindler	kolja.kindler@dlr.de	German Aerospace Center (DLR)	Germany
1274	Comparison of two S-PIV techniques: pinhole model vs. image dewarping and misalignment correction	F. Scarano ¹ , L. David ² , M. Bsibsi ¹ , D. Callaud ² , R.A.D. Akkermans ¹ 1 TU DELFT 2 Université de Poitiers	PIV optical systems	Fulvio	Scarano	f.scarano@lr.tudelft.nl	Delft University of Technology	The Netherlands
1275	Wandering of Wing-Tip Vortices	A L Heyes R F Jones D A R Smith	Aerodynamic Flows	Andrew	Heyes	a.heyes@imperial.ac.uk	Imperial College London	England
1276	TEMPORAL CORRELATION MODIFICATION BY MICROBUBBLES INJECTION NEAR-WALL IN A CHANNEL FLOW	Yassin A. Hassan, C. C. Gutierrez-Torres, J. A. Jimenez-Bernal, E. Dominguez-Ontiveros		Yassin	Hassan	y-hassan@tamu.edu	Texas A&M University	USA
1277	Spatial Distribution of Electrokinetically Driven Flow Measured by Micro-PIV (An Evaluation of Electric Double Layer in Microchannel)	Mitsuhsia ICHIYANAGI Koichiro SAIKI Yohei SATO Koichi HISHIDA	Techniques for micro-scale and nano-scale flow	Mitsuhsia	ICHIYANAGI	ichiyanagi@mh.sd.keio.ac.jp	Keio University	Japan
1280	Application of PSP for Determination of the Pressure Field	Christian Klein Ulrich Henne Werner E. Sachs		Christian	Klein	christian.klein@dlr.de	DLR-GÖTTINGEN	GERMANY
1282	Flow field investigation of a generic truck model	Michael Thimm, Daniel Reidt, Jan Roblin, Johannes Bosbach, Sigfried Loose, Hugues, Markus Raffel		Michael	Thimm	michael.thimm@dlr.de	German Aerospace Center (DLR), Institute for Aerodynamics and Flow Technology	Germany
1283	Aero-optical effects induced by a transsonic turbulent boundary layer using high resolution Shack-Hartmann wave front analysis and LES simulations	R. DERON, E. TROMEUR, J-P DUSSAUGE, E. GARNIER and P. SAGAUT	Aerodynamic flows; Wall flows; Novel measurement methods	DERON	RUY	deron@onera.fr	ONERA	FRANCE
1284	Flow Characteristics of Spray Impingement in PFI Injection Systems	M. R. O. Panão and A. L. N. Moreira	Engines	António	Moreira	moreira@dem.ist.utl.pt	Instituto Superior Técnico	Portugal
1286	ADAPTIVE MULTI-FRAME PIV	F. Pereira, A. Ciarravano, G. P. Romano, F. Di Felice	PIV SIGNAL AND DATA PROCESSING	Francisco	Pereira	f.pereira@insean.it	INSEAN	Italy

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1288	Evaluation of the Phase Doppler Technique for the Characterization of Transient Spray/Wall Impingement	M. R. O. Panão and A. L. N. Moreira	Two Phase	António	Moreira	moreira@dem.ist.utl.pt	Instituto Superior Técnico	Portugal
1289	Temporal aero-optical effects induced by a transsonic cavity flow using high speed quad cell technique	C. COUDRAIN, R. DERON, F. MENDEZ and P. GEFFROY	Aerodynamical flow, novel measurements technique	COUDRAIN	CHRISTOPHE	coudrain@onera.fr	ONERA	FRANCE
1290	Effect of variable density on mixing in axisymmetric impinging jet flow	B. SARH, I. SERRES, C. CHAUVEAU and I. GÖKALP	Free Flows and Flames	SARH	Brahim	sarh@cnrs-orleans.fr	Laboratoire de Combustion et Systèmes Réactifs - CNRS-Université Orléans	FRANCE
1291	Measurements of Electric Double Layer between Electrolyte-Glass Interface by Evanescent Wave Light Illumination	Yutaka KAZOE and Yohei SATO	Techniques for micro-scale and nano-scale flow	Yohei	SATO	yohei@sd.keio.ac.jp	Keio University	Japan
1292	Development of Fibrescope Stereo PTV with Illumination Timing Control of Diode Laser - Modified Algorithm and Interpolation for 3D Velocity Detection -	Hayanari Tachibana, Tsugumichi Mori, Koichi Hishida	PIV Signal and Data Processing	Hayanari	Tachibana	tachibana@mh.sd.keio.ac.jp	Keio University	Japan
1293	Spatial distribution of droplet size and velocity in air heated spray measured by interferometric laser imaging technique	Goro TAKEUCHI, Tatsuya KAWAGUCHI, Koichi HISHIDA, Masanobu MAEDA	two-phase flow instrumentation	Goro	TAKEUCHI	takeuchi@mh.sd.keio.ac.jp	Keio University	Japan
1294	Flow Characterization by PIV measurements for Feedback Control of Heat Transfer in Dual Impinging Jets	Kazuyuki YAMAMOTO*, Tomoaki KATAYAMA and Koichi HISHIDA	Jet and Heat Transfer(Vortices and Vortical Flows)	Kazuyuki	Yamamoto	kazu@mh.sd.keio.ac.jp	Keio University	Japan
1295	Field Application Development of Super-Long-Range PIV system by using Cassegrain Telescope	Hideaki Tezuka Michitsugu Mori Koichi Hishida Masanobu Maeda	Novel Measurement Methods	Michitsugu	Mori	mori-mcy@rd.tepco.co.jp	Tokyo Electric Power Co., Inc.	Japan

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1296	Yoshiaki Kodama, National Maritime Research Institute, Japan	Yoshiaki Kodama, National Maritime Research Institute, Japan Atsuhide Kitagawa, National Maritime Research Institute, Japan Koichi Hishida, Keio University, Japan Masahiko Makino, National Maritime Research Institute, Japan	Two-Phase Flow	Yoshiaki	Kodama	kodama@nmri.go.jp	National Maritime Research Institute	Japan
1297	On the stability of iterative PIV image interrogation methods	F. Scarano	PIV interrogation methods	Fulvio	Scarano	f.scarano@lr.tudelft.nl	Delft University of Technology	The Netherlands
1299	2nd derivative cross correlation based PIV super-resolution	F. Scarano	PIV interrogation methods	Fulvio	Scarano	f.scarano@lr.tudelft.nl	Delft University of Technology	The Netherlands
1300	A Novel Technique for 3-D Microflow Measurement by Using Multiplexing Holography	Cheng-Tsair Yang Han-Sheng Chuang	Techniques for micro-scale and nano-scale flow	Cheng-Tsair	Yang	ctyang@itri.org.tw	Industrial Technology Research Institute	Taiwan
1301	Measurement of Unburned Gas Temperature in an SI Engine Using Fiber-Optic Laser Interferometry	Nobuyuki Kawahara, Eiji Tomita, Kouji Takasu and Kazuhiro Goto* Department of Mechanical Engineering, Okayama University * Yamaha Motor Co.,Ltd.	Engines	Nobuyuki	KAWAHARA	kawahara@mech.okayama-u.ac.jp	Okayama University	JAPAN
1302	Simple Optical Setup for 3D PIV Using Stereo Digital Holography	Tomomasa UEMURA, Yasufumi Yamamoto, G. Matsui	PIV, HPIV, 3D measurement	Tomomasa	UEMURA	umra@kansai-u.ac.jp	Kansai University	JAPAN
1303	THE VISUALIZATION OF NON STATIONARY FREE CONVECTION	O.A.Evikhieva, B.S.Rinkevichius, A.V.Tolkachev	Optical methods for thermodynamic properties	Bronius	Rinkevichyus	RinkevichiusBS@mpei.ru	Moscow Power Engineering Institute(Technical University)	Russia

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1304	Simultaneous Measurements of Droplet Characteristics and Surface Thermal Behavior to Study Spray Cooling with Pulsed Sprays	H. Loureiro, M. R. O. Panão and A. L. N. Moreira	Wall flows	António	Moreira	moreira@dem.ist.utl.pt	Instituto Superior Técnico	Portugal
1311	An optical spark plug sensor for in-situ fuel concentration measurement in an engine cylinder by 3.39 mm infrared absorption method	Atsushi Nishiyama, Nobuyuki Kawahara, Eiji Tomita, Masahiro Fuiiwara	Engines	Nobuyuki	Kawahara	kawahara@mech.okayama-u.ac.jp	Okayama University	Japan
1312	Spectral Dynamics of Drag Reduction by Microbubbles	Jose A. Jimenez-Bernal, Yassin A. Hassan, Claudiad del C. Gutierrez-Torres, Carlos Estrada-Perez	Two-phase flow	Yassin A.	Hassan	y-hassan@tamu.edu	Texas A&M University	USA
1313	LDA ANALYSIS OF PVC-CENTRAL RECIRCULATION ZONE INTERACTION IN A MODEL VORTEX BURNER	C.E. Cala, E.C. Fernandes, M.V. Heitor, S.I. Shtork	Vortices and Vortical Flows	Sergei	Shtork	sergei@dem.ist.utl.pt	Instituto Superior Técnico	Portugal
1314	The Visualization and Acoustics of a Laminar Premixed Impinging Flame	E.C. Fernandes and R.E. Leandro	Combustion and detonation	Edgar	Fernandes	ecfernandes@dem.ist.utl.pt	IST	Portugal
1319	PIV MEASUREMENTS IN A WATER-PUMP INTAKE	L.Eça, A.C.Duarte, E.C.Fernandes and J.M.Silva	Free-Surface Flows	EDGAR	FERNANDES	ecfernandes@dem.ist.utl.pt	Instituto Superior Técnico	PORTUGAL
1320	Optimisation of the Droplet Sizing Accuracy of the combined Scattering/Laser Induced Fluorescence technique	G. Charalampous, Y. Hardalupas* and A.M.K.P. Taylor		Yannis	Hardalupas	y.hardalupas@imperial.ac.uk	Imperial College London	United Kingdom
1321	Optimal Solenoidal Interpolation of Turbulent Vectors: Application to PTV and Super-resolution PIV	P. Vedula and R. J. Adrian		Ronald J.	Adrian	rjadrian@uiuc.edu	University of Illinois	USA
1322	Validation of Micro PIV Measurements in PDMS Micro-channel Flow Geometries	R. J. Adrian, E. Yamaguchi, P. Vanka, T. Plattner and W. Lai		Ronald J.	Adrian	rjadrian@uiuc.edu	University of Illinois	USA
1323	Relationship between In-cylinder Flow and Pressure and GDI Spray Propagation	G.Pitcher, M.S. Goodwin and G. Wigley		Graham	Wigley	G.Wigley@lboro.ac.uk	Loughborough University	United Kingdom
1324	Visualization of blood flow in aortic arch by using PIV method	Takao Inamura, Hideki Yanaoka, Junichi Yamazaki, Nobuo Funakoshi, Ikuo Fukuda, Masahito Minagawa and Kozo Fukui		Takao	INAMURA	tina@cc.hirosaki-u.ac.jp	Hirosaki University	JAPAN

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1325	Characterization of Water Mist Sprays Using a Phase-Doppler Particle Analyzer and an Iso-Kinetic Sampling Probe for Validation of Scale Modeling of Water Mist Fire Suppression	Benjamin Ditch and Hong-Zeng Yu		Hong-Zeng	Yu	bert.yu@fmglobal.com	FM Global Research	USA
1326	EFFECTS OF PRESSURE, TEMPERATURE, CONCENTRATION ON THE LASER INDUCED FLUORESCENCE OF GAS-PHASE BIACETYL-DODECANE MIXTURE	MODICA Vincent, MORIN Céline and GUIBERT Philippe		Vincent	Modica	modica@ccr.jussieu.fr	Université Pierre et Marie Curie - Paris 6	FRANCE
1327	High-speed stereo PIV measurements of the flow downstream a dynamic mechanical model of the human vocal folds	Triep, M.; Brücker, Ch.; Schröder, W.		Michael	Triep	michaelt@aia.rwth-aachen.de	Aerodynamisches Institut der RWTH-Aachen	Germany
1328	Direct Experimental Measurements of Velocity Gradient Fields in Turbulent Flows via High-Resolution Frequency-Based Dual-Plane Stereo PIV (DSPIV)	John A. Mullin and Werner J.A. Dahm		Werner	Dahm	wdahm@umich.edu	The University of Michigan	USA
1329	LDA CALIBRATION SENSOR INTERCOMPARISON	Sánchez, J.R.; Müller, H.; Care, I.; Seynhaeve, J.M. and Cordier, Y.		José R.	Sánchez	sanchezq@inta.es	Instituto Nacional de Tecnica Aeroespacial	Spain
1331	3-D Turbulent Near-Wake Structure of a Rectangular Cylinder in Channel Flow	M. Senda, K. Inaoka, N. Shigemoto and T. Okuno		Mamoru	Senda	msenda@mail.doshisha.ac.jp	Doshisha University	Japan
1332	Simultaneous Particle Size, Velocity and Material Recognition Measurements with the Dual Mode Phase Doppler Anemometry	Fabrice Onofri, Kuang-Fang Ren, Gérard Gréhan, Alain Cartellier, Pierre Benech, Pierre Lemaitre-Augier		Fabrice	Onofri	Fabrice.Onofri@polytech.univ-mrs.fr	Université de Provence	France
1333	3-coherent beams Phase Doppler and Laser Doppler Velocimetry Measurements Techniques	Anne Lenoble, Fabrice Onofri, Stefan Radev		Fabrice	Onofri	Fabrice.Onofri@polytech.univ-mrs.fr	Université de Provence	France
1334	Characterisation of the Occurrence of the Precessing Vortex Core in Partially Premixed and Premixed Swirling Flow	Syred, N.; Langman, A.; Chong, W.; Rodriguez-Martinez, V.; Alwahabi, Z.; Nathan, G.		Nick	Syred	syredn@cardiff.ac.uk	Cardiff University	United Kingdom

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1335	Studies of the Release of Sodium from Pulverised Coal in a Flat Flame Burner	Syred, N.; Karachur, D.; Chong, W.; Alwahabi, Z.; Nathan, G.		Nick	Syred	syredn@cardiff.ac.uk	Cardiff University	United Kingdom
1336	Development in the research of turbulence of swirling flows	Pêgo, João; Lienhart, Hermann; Jovanovic, Jovan; Pashtrapanska, Mira;	Turbomachinery	João	Pêgo	joaopego@lstm.uni-erlangen.de	LSTM-ERLANGEN	GERMANY
1337	Using a High-Speed PIV System to Study the Transient Processes in Superfluid Helium	T. Zhang, S. W. van Scriber and L. M. Lourenco		Luiz	Lourenco	lourenco@idtpiv.com	IDT, Inc.	USA
1338	SCATTERING IMAGING TO MEASURE SIZE AND VELOCITY OF SMALL PARTICLES IN DENSE PARTICLE SYSTEMS	R. Calabria and P. Massoli	Novel Measurement Methods; Two-phase flow instrumentation	Patrizio	Massoli	p.massoli@im.cnr.it	Istituto Motori - CNR	Italy
1339	Wall pressure fluctuations of turbulent separated and reattaching flow with local forcing	Y.Z. Liu, W. Kang, H. J. Sung	Multi-Point Measurement Techniques for surface properties	Hyung Jin	Sung	hjsung@kaist.ac.kr	Korea Advanced Institute of Science and Technology	Republic of Korea
1340	Icing Processes in Aerospace Applications Studied by Laser Light Scattering Techniques	R. Calabria, B. Esposito, P. Massoli	Two phase flow , Two-phase flows instrumentation	Patrizio	Massoli	p.massoli@im.cnr.it	Istituto Motori - CNR	Italy
1341	STEREO PIV-MEASUREMENTS IN AN ENCLOSED ROTOR-STATOR SYSTEM WITH PRE-SWIRLED COOLING AIR	C. Bricaud, B. Richter, K. Dullenkopf		Klaus	Dullenkopf	klaus.dullenkopf@iuts.uni-karlsruhe.de	University of Karlsruhe	Germany
1342	A Study of Bifurcation Phenomena using LDA and UVP in Taylor-Couette Flow at Small Aspect Ratio	H. Kikura, H. Kawai and M. Aritomi		Hiroshige	Kikura	kikura@nr.titech.ac.jp	Tokyo Institute of Technology	JAPAN

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1343	Mist observation in superfluid He two-phase flow by PDA techniques	P. Thibault**, E. Di Muoio**, S. Perraud*, B. Rousset*, L. Puech**, P. E. Wolf**, R. van Weelden*** * CEA/SBT France, ** CNRS/CRTBT France, *** CERN Suisse		THIBAUT	Pierre	thibault@grenoble.cnrs.fr	CNRS-Centre de Recherches sur les très Basses Températures	France
1344	Boundary layer investigation on a tilt-rotor blade by embedded LDV measurements	C. Barla E. Berton D. Favier C. Maresca		ERIC	BERTON	eric@morille.univ-mrs.fr	LABM USR2164 CNRS University of Méditerranée	France
1345	Stereoscopic Particle Image Velocimetry: Application to a non-Newtonian Flow Field Generated by a Sedimenting Sphere	J.A. Tatum, N.J. Lawson, G.M. Harrison		Graham	Harrison	graham.harrison@ces.clemson.edu	Clemson University	U.S.A.
1348	A STUDY OF ABLATION ON A RE-ENTRY VEHICLE	Udaloy V.A., Ivanov N.M., Sokolov N.L., Pazdnikov V.U.		Nikolay	Sokolov	snl@mcc.rsa.ru	Mission Control and Modeling Center	Russia
1350	Temperature Measurements of Laminar Propane/Air Premixed Flame	Yuji IKEDA, Takahiro KURAHASHI, Nobuyuki KAWAHARA and Eiji TOMITA		Yuji	Ikeda	yuji@imagineering.jp	Imagineering, Inc	JAPAN
1351	Considerations for high resolution laser Doppler measurements in very small nozzles	D. Kalantari and C. Tropea		Cam	Tropea	ctropea@sla.tu-darmstadt.de	Technische Universität Darmstadt	Germany
1352	Micro Holographic Particle Image Velocimetry: Digital 3C-3D Measurement of Free Jet Flow	Hui Yang, Neil Halliwell and Jeremy Coupland	Techniques for micro-scale and nano-scale flow	Jeremy	Coupland	j.m.coupland@lboro.ac.uk	Loughborough University	UK
1353	The Development of Multi-Point Laser Doppler Anemometry (MPLDA) : A New Method to Estimate Fluid Flow Statistics	J.M. Coupland Loughborough University, Loughborough LE11 3TU N.J. Lawson Cranfield University, Cranfield MK43 0AI	Novel Measurement Methods	Jeremy	Coupland	j.m.coupland@lboro.ac.uk	Loughborough University	UK

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1354	Investigation of flow and transport in the vicinity of uprising bubbles near the interface of permeable sediments using 3D PLIF	M. Stoehr A. Khalili	Two-Phase Flow	Michael	Stoehr	mstoehr@mpi-bremen.de	Max-Planck-Institute for marine microbiology	Germany
1355	Laser-Doppler Measurements of a Highly Curved Flow	Barata, JMM Durão, DFG Ferrão, F Silva, AR Silvestre, MA	Separated Flows	Jorge	Barata	jbarata@ubi.pt	Universidade da Beira Interior	Portugal
1356	Neural Network PTV Using a Self-Organizing Map Method	Ohmi, Kazuo		Kazuo	Ohmi	ohmi@ise.osaka-sandai.ac.jp	Osaka Sangyo University	Japan
1357	Measurement of rotation and strain-rate tensors by using stereoscopic PIV	O. Özcan, K.E. Meyer, P.S. Larsen		Oktay	Ozcan	oktayo@yildiz.edu.tr	Yildiz Technical University	Turkey