JOURNAL OF FLOW VISUALIZATION AND IMAGE PROCESSING

INDEX VOLUME 25, 2018

Page Range of Issues:
Issue 1: 1–46; Issue 2: 47–144; Issues 3-4: 145–383

Issue 1

SPECIAL ISSUE: PSFVIP-11 2017
GUEST EDITOR: SHUICHI TORII

Preface: Flow Visualization, Image Processing and Related Techniques **v**
S. Torii

Insight into Coherence Structure in Logarithmic Region of Wall Turbulence with Detached Eddy by using Conditionally Averaged Two-Camera PIV Measurements **1**
Y. Hattori, H. Suto, K. Nakao, & H. Hirakuchi

Three-Dimensional Flow Field around a Rotating Cylinder for Spiral-Fin Magnus Wind Turbine **15**
Y. Ikezawa, H. Hasegawa, T. Ishido, T. Haniu, & N. Murakami

Observing Bubbles using Phase Retrieval Holography **25**
A. Kubonishi, Y. Tanaka, & S. Murata

Structure of Underexpanded Supersonic Jets from Axisymmetric Laval Nozzles **33**
H. Maeda, H. Fukuda, K. Kubo, S. Nakao, D. Ono, & Y. Miyazato

Issue 2

Image Analysis of Internal Flow in Grooved-Channel Heat Transport Device with Phase Change **47**
K. Abiko, A. Murata, H. Saito, & K. Iwamoto

Atomization Patterns Produced by Viscous, Like-on-Like Impinging Liquid Jets **65**
A. Madan Mohan, T.N.C. Anand, & R.V. Ravikrishna

Visualization of Shock Wave Interaction with Wedge Flow **77**
I.A. Znamenskaya, M.K. Kulkin, I.E. Ivanov, & I.A. Doroshchenko

Numerical Investigation of Swirl Flow using Different Swirlers in a Real-Life Gas Turbine Combustor **91**
MSN Murthy, N. Bhadkamkar, A. Penumarti, S.V. Prabbu, & S. Sreedhara

Streamline Visualization of Potential Flow with Branch Cuts, with Applications to Groundwater **119**
E. Holzbecher

Issues 3-4

SPECIAL ISSUE: IMAGING AND MEASUREMENTS IN FLOW AND TRANSPORT PHENOMENA
GUEST EDITORS: ATUL SRIVASTAVA AND K. MURALIDHAR

Preface: Imaging and Measurements in Flow and Transport Phenomena **v**
A. Srivastava & K. Muralidhar

Flow around a Corrugated Airfoil **145**
P. Sooraj & A. Agrawal

Dual Wavelength Interferometry-Based Three-Dimensional Simultaneous Reconstruction of Temperature and Concentration Fields in Double-Diffusive Systems: Part I **163**
S.S. Varma & A. Srivastava

Surface Plasmon Resonance Imaging of Drop Coalescence at High-Temporal Resolution **191**
S. Bayani, Y. Tabe, Y.T. Kang, S.H. Lee, & C.K. Choi

Do the Intrusive Probes Alter the Characteristics Length-Scales of Natural Convection? **207**
V. Kumar, A. Srivastava, & S. Karagadde

Optical Visualization and Measurement of Liquid Jet Core in a Coaxial Atomizer with Annular Swirling Air **229**
A. Kumar & S. Sahu

Effect of Salt Concentration (NaCl) on Drying Pattern of Ferrofluid Droplets **245**
S.K. Saroj & P.K. Panigrahi

Flow Characters Behind Surface Mounted Rounded Slit Ribs **259**
V. Sharma, A. Tariq, & A. Prajapati

Thermal Visualization and Performance Evaluation of the Open Matrix Structures using Liquid Crystal Thermography **277**
A. Prajapati & A. Tariq

Evaporation Characteristics of a Confined Nanofluid Bridge between Two Heated Parallel Plates **297**
T.R. Mahanta & S. Khandekar

Rainbow Schlieren Deflectometry for Scalar Measurements in Fluid Flows **329**
A.K. Agrawal & C.T. Wanstall

Pod Analysis of a Blooming Jet at a Moderate Reynolds Number **359**
T.B. Gohil & A.K. Saha

Index, Volume 25, 2018 **383**

JOURNAL OF FLOW VISUALIZATION AND IMAGE PROCESSING

AUTHOR INDEX VOLUME 25, 2018

Page Range of Issues:
Issue 1: 1–46; Issue 2: 47–144; Issues 3-4: 145–383

Abiko, K., 47
Agrawal, A., 145
Agrawal, A.K., 329
Anand, T.N.C., 65
Bayani, S., 191
Bhadkamkar, N., 91
Choi, C.K., 191
Doroshchenko, I.A., 77
Fukuda, H., 33
Gohil, T.B., 359
Haniu, T., 15
Hasegawa, H., 15
Hattori, Y., 1
Hirakuchi, H., 1
Holzbecher, E., 119
Ikezawa, Y., 15
Ishido, T., 15
Ivanov, I.E., 77
Iwamoto, K., 47
Kang, Y.T., 191
Karagadde, S., 207
Khandekar, S., 297
Kubo, K., 33
Kubonishi, A., 25
Kulkin, M.K., 77
Kumar, A., 229
Kumar, V., 207
Lee, S.H., 191
Madan Mohan, A., 65
Maeda, H., 33
Mahanta, T.R., 297
Miyazato, Y., 33
Murakami, N., 15
Muralidhar, K., v
Murata, A., 47
Murata, S., 25
Murthy, M.S.N., 91
Nakao, K., 1
Nakao, S., 33
Ono, D., 33
Panigrahi, P.K., 245
Penumarti, A., 91
Prabbu, S.V., 91
Prajapati, A., 259, 277
Ravikrishna, R.V., 65
Saha, A.K., 359
Sahu, S., 229
Saito, H., 47
Saroj, S.K., 245
Sharma, V., 259
Sooraj, P., 145
Sreedhara, S., 91
Srivastava, A., v, 163, 207
Suto, H., 1
Tabe, Y., 191
Tanaka, Y., 25
Tariq, A., 259, 277
Varma, S.S., 163
Wanstall, C.T., 329
Znamenskaya, I.A., 77

JOURNAL OF FLOW VISUALIZATION AND IMAGE PROCESSING

SUBJECT INDEX VOLUME 25, 2018

Page Range of Issues:
Issue 1: 1–46; Issue 2: 47–144; Issues 3-4: 145–383

(PIV), 207
atmospheric surface layer, 1
backlight imaging, 65
bandpass filter, 191
between-class variance, 25
hydrogen bubble, 25
blooming jet, 359
breakup length, 229
buoyancy-driven convection, 207
CFD simulation, 77
CFD, 91
circulating cells, 207
closed matrix, 277
coalescence, 191
combustion efficiency, 91
FLUENT, 91
complex logarithm, 119
computer tomography, 33
contact line, 297
corrugated airfoil, 145
deposition pattern, 245
double-diffusive convection, 163
dual wavelength interferometry, 163
evaporation, 297
ferrofluid, 245
fish-bone structure, 65
flow characteristics, 259
flow separation, 145
flow visualization, 47, 259
fluctuation, 229
forced jet, 359
Gabor, 25
gas discharge visualization, 77
gas turbine blades, 277
gas turbine combustor, 91
gas–liquid two-phase flow, 47
image analysis, 47
Gerchberg-Saxton algorithm, 25
groundwater flow, 119
gust wind, 1
heat pipe, 47
heat transfer, 277
heat transport device, 47
high contrast, 25
high-Reynolds-number flows, 1
high-speed, 191
illumination path, 191
impinging jets, 65
instant flow image, 77
interface tracking, 229
interferometry, 207
Laval nozzle, 33
LES, 359
line of sight techniques, 329
optical measurements, 329
liquid bridge, 297
liquid crystal thermography, 277
Magnus effect,15
matrix structure, 277
microbubbles, 25
Monin-Obukhof theory, 1
nanofluid, 297
numerical weather prediction, 1
open matrix, 277
optical connectivity, 229
optical tomography, 163
Otsu method, 25
particle image velocimetry
particle image velocimetry, 145
particle tracing, 119
passive flow control, 259
periodic patterns, 65
phase change, 47
pinning, 297
PIV, 259
POD, 359
potential flow, 119
rainbow schlieren, 33
round edge rib, 259
salt concentration, 245
schlieren, 329
shadowgraphy, 77
shock wave, 77
slit rib, 259
stability, 91
streaks, 1
stream function, 119
streamlines, 119
supersonic jet, 33
surface plasmon resonance, 191
swirl, 229
swirler, 91
temporal resolution, 191
thermal and solutal fields, 163
turbulence boundary layer, 1
twin-image problem, 25
velocity fluctuations, 1
very-large-scale motions, 1
viscous liquids, 65
wetting, 297
wind tunnel test, 15
wind turbine, 15
wind-tunnel experiment, 1