

Combinatorics, Probability & Computing

Editor-in-Chief

Béla Bollobás, *DPMMS, Cambridge, UK; University of Memphis, USA*

Published bimonthly, *Combinatorics, Probability & Computing* is devoted to the three areas of combinatorics, probability theory and theoretical computer science. Topics covered include classical and algebraic graph theory, extremal set theory, matroid theory, probabilistic methods and random combinatorial structures; combinatorial probability and limit theorems for random combinatorial structures; the theory of algorithms (including complexity theory), randomised algorithms, probabilistic analysis of algorithms, computational learning theory and optimisation.

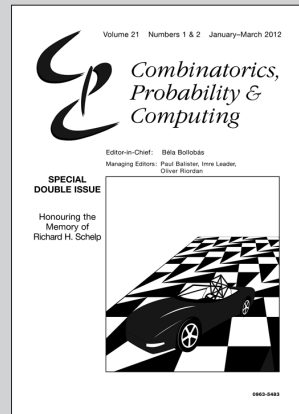
Price information

is available at: <http://journals.cambridge.org/cpc>

Free email alerts

Keep up-to-date with new material – sign up at
<http://journals.cambridge.org/cpc-alerts>

For free online content visit:
<http://journals.cambridge.org/cpc>



Combinatorics, Probability & Computing

is available online at:

<http://journals.cambridge.org/cpc>

To subscribe contact Customer Services

in Cambridge:

Phone +44 (0)1223 326700
Fax +44 (0)1223 325150
Email journals@cambridge.org

in New York:

Phone +1 (845) 353 7500
Fax +1 (845) 353 4141
Email
subscriptions_newyork@cambridge.org



CAMBRIDGE
UNIVERSITY PRESS

- 376 Nonlinear self-excited thermoacoustic oscillations: intermittency and flame blowout
L. Kabiraj & R. I. Sujith
- 398 Drag reduction due to spatial thermal modulations
M. Z. Hossain, D. Floryan & J. M. Floryan
- 420 Microstructural theory and the rheology of concentrated colloidal suspensions
E. Nazockdast & J. F. Morris
- 453 Finite-Péclet-number effects on the scaling exponents of high-order passive scalar structure functions
J. Lepore & L. Mydlarski
- 482 Flux correlations in supersonic isothermal turbulence
R. Wagner, G. Falkovich, A. G. Kritsuk & M. L. Norman
- 491 Flow of power-law fluids in fixed beds of cylinders or spheres
J. P. Singh, S. Padhy, E. S. G. Shaqfeh & D. L. Koch
- 528 Nonlinear stability of hypersonic flow over a cone with passive porous walls
V. Michael & S. O. Stephen
- 564 Lattice-Boltzmann equations for describing segregation in non-ideal mixtures
P. C. Philippi, K. K. Mattila, D. N. Siebert, L. O. E. dos Santos, L. A. Hegele Júnior & R. Surmas
- 588 Effect of compressibility on the small-scale structures in isotropic turbulence
J. Wang, Y. Shi, L.-P. Wang, Z. Xiao, X. T. He & S. Chen
- 632 Surface tension-induced global instability of planar jets and wakes
O. Tammisola, F. Lundell & L. D. Söderberg
- 659 On the transition pattern of the oblique detonation structure
H. H. Teng & Z. L. Jiang

S indicates supplementary data or movies available online.

- 1 A numerical study of granular shear flows of rod-like particles using the discrete element method
Y. Guo, C. Wassgren, W. Ketterhagen, B. Hancock, B. James & J. Curtis
- 27 Effect of microstructural anisotropy on the fluid–particle drag force and the stability of the uniformly fluidized state
W. Holloway, J. Sun & S. Sundaresan
- 50 Spreading dynamics of drop impacts
G. Lagubeau, M. A. Fontelos, C. Josserand, A. Maurel, V. Pagneux & P. Petitjeans
- 61 Formation process of the vortex ring generated by an impulsively started circular disc
A.-I. Yang, L.-b. Jia & X.-z. Yin
- 86 Spectral analysis of the transition to turbulence from a dipole in stratified fluid
P. Augier, J.-M. Chomaz & P. Billant
- 109 Jettable fluid space and jetting characteristics of a microprint head
L.-Y. Wong, G.-H. Lim, T. Ye, F. B. S. Silva, J.-M. Zhuo, R.-Q. Png, S.-J. Chua & P. K. H. Ho
- 123 The structure of the absolutely unstable regions in the near field of low-density jets
W. Coenen & A. Sevilla
- 150 Generating controllable velocity fluctuations using twin oscillating hydrofoils
S. F. Harding & I. G. Bryden
- S 159 Dynamical separation of spherical bodies in supersonic flow
S. J. Laurence, N. J. Parziale & R. Deiterding
- S 183 Stokes flow singularity at the junction between impermeable and porous walls
L. C. Nitsche & P. Parthasarathi
- 216 Linear biglobal analysis of Rayleigh–Bénard instabilities in binary fluids with and without throughflow
J. Hu, D. Henry, X.-Y. Yin & H. BenHadid
- 243 Turbulent duct flows in a liquid metal magnetohydrodynamic power generator
H. Kobayashi, H. Shionoya & Y. Okuno
- 271 Motion of a solid particle in a shear flow along a porous slab
S. Khabthani, A. Sellier, L. Elasmî & F. Feuillebois
- 307 Computations of fully nonlinear hydroelastic solitary waves on deep water
P. Guyenne & E. I. Părău
- 330 On the effects of finite-rate carbon/oxygen chemistry on supersonic jet instability
L. Massa & P. Ravindran
- 362 Exact solutions for wave propagation over a patch of large bottom corrugations
J. Yu & G. Zheng

Contents continued on inside back cover.