

# **13th Workshop on Analytic Algorithmics and Combinatorics 2016 (ANALCO16)**

Arlington, Virginia, USA  
11 January 2016

**Editors:**

**James Allen Fill  
Mark Daniel Ward**

ISBN: 978-1-5108-1969-6

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571



**Some format issues inherent in the e-media version may also appear in this print version.**

Copyright© (2016) by SIAM: Society for Industrial and Applied Mathematics  
All rights reserved.

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact SIAM: Society for Industrial and Applied Mathematics  
at the address below.

SIAM  
3600 Market Street, 6th Floor  
Philadelphia, PA 19104-2688 USA

Phone: (215) 382-9800  
Fax: (215) 386-7999

[siambooks@siam.org](mailto:siambooks@siam.org)

**Additional copies of this publication are available from:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: 845-758-0400  
Fax: 845-758-2634  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

[More Analysis of Double Hashing for Balanced Allocations](#)

[Michael Mitzenmacher](#)

pp. 1-9 (9 pages)

[A New Approach to Analyzing Robin Hood Hashing](#)

[Michael Mitzenmacher](#)

pp. 10-24 (15 pages)

[Randomized Strategies for Cardinality Robustness in the Knapsack Problem](#)

[Yusuke Kobayashi](#) and [Kenjiro Takazawa](#)

pp. 25-33 (9 pages)

[Graphs with degree constraints](#)

[Élie de Panafieu](#) and [Lander Ramos](#)

pp. 34-45 (12 pages)

[Sampling Weighted Perfect Matchings on the Square-Octagon Lattice](#)

[Prateek Bhakta](#) and [Dana Randall](#)

pp. 46-55 (10 pages)

[Ricci-Ollivier Curvature of the Rooted Phylogenetic Subtree-Prune-Regraft Graph](#)

[Chris Whidden](#) and [Frederick A Matsen IV](#)

pp. 106-120 (15 pages)

[Scaling limit of random  \$k\$ -trees](#)  
[Michael Drmota](#) and [Emma Yu Jin](#)  
pp. 56-65 (10 pages)

[Betweenness Centrality in Random Trees](#)  
[Kevin Durant](#) and [Stephan Wagner](#)  
pp. 66-79 (14 pages)

[On Terminal Nodes and the Degree Profile of Preferential Dynamic Attachment Circuits](#)  
[Panpan Zhang](#)  
pp. 80-92 (13 pages)

[Prime Factorization of the Kirchhoff Polynomial: Compact Enumeration of Arborescences](#)  
[Matúš Mihalák](#), [Przemysław Uznański](#), and [Pencho Yordanov](#)  
pp. 93-105 (13 pages)

[The CLT Analogue for Cyclic Urns](#)  
[Noela S. Müller](#) and [Ralph Neininger](#)  
pp. 121-127 (7 pages)

[On Connectivity in a General Random Intersection Graph](#)  
[Jun Zhao](#) and [Panpan Zhang](#)  
N/A

[Total Variation Discrepancy of Deterministic Random Walks for Ergodic Markov Chains](#)

[Takeharu Shiraga](#), [Yukiko Yamauchi](#), [Shuji Kijima](#), and [Masafumi Yamashita](#)

pp. 138-148 (11 pages)