## Syamantak Das

Contact Information	FB 3, Mathematik/Informatik Universität Bremen Bibliothekstraße 28359 Bremen, Germany State State Stat
WEBPAGE	http://cslog.uni-bremen.de/sdas/
Research Interests	Algorithmic problems both of theoretical interest as well as application oriented. I take specific interest in the area of approximation and online algorithms for combinatorial optimization problems.
Work Experience	Universität Bremen, Bremen, Germany
	Postdoctoral Researcher, Mathematik/Informatik, October 2017 - Present
	Max Planck Institut für Informatik, Saarbrücken, Germany
	Visiting Postdoc, Algorithms and Complexity Group, Jan 2016 - September 2016
EDUCATION	Indian Institute of Technology Delhi, New Delhi, India
	<ul> <li>Ph.D., Computer Science and Engineering, Jan 2010 - December 2015</li> <li>Thesis: Scheduling with Outliers to Minimize Load and Flow-time</li> </ul>
	<ul> <li>Advisers: Naveen Garg and Amit Kumar</li> <li>GPA: 9.8/10.0</li> </ul>
	Indian Institute of Technology Kharagpur, West Bengal, India
	M.S., Information Technology, Aug 2009
	<ul> <li>Thesis: Resistance Extraction and Current Density Profiling of Lateral Power Arrays</li> <li>Adviser: Amit Patra and Shamik Sural</li> <li>GPA: 8.8/10.0</li> </ul>
	Jadavpur University, West Bengal, India
	B.E., Computer Science and Engineering, June 2005
	• Percentage: 80.2 (1st Class Honors)
	South Point High School, West Bengal, India
	<ul><li>West Bengal Higher Secondary Examination (Class XII), 2001</li><li>Percentage: 88.8</li></ul>
	South Point High School, West Bengal, India
	<ul><li>West Bengal Secondary Examination (Class X), 1999</li><li>Percentage: 91.2</li></ul>

Refereed Conference Publications	<ol> <li>Parinya Chalermsook, Syamantak Das, Bundit Laekhanukit, Daniel Vaz "Beyond metric embedding: approximating group steiner trees on bounded treewidth graphs", ACM-SIAM Symposium on Discrete Algorithms (SODA) 2017.</li> </ol>
	<ol> <li>A Roy Choudhury, Syamantak Das, Naveen Garg, Amit Kumar <i>"Rejecting jobs to minimize load and maximum flow-time"</i>, ACM-SIAM Symposium on Discrete Algorithms (SODA) 2015.</li> </ol>
	<ol> <li>A Roy Choudhury, Syamantak Das, Amit Kumar "Minimizing weighted l<sub>p</sub>-norm of flow-time in the rejection model", IARCS Foundations of Software Technology and Theoretical Computer Science (FSTTCS) 2015.     </li> </ol>
Refereed Journal Publications	<ol> <li>Suman K. Bera, Syamantak Das, Amit Kumar, <i>"Minimizing average flow-time under knapsack constraint"</i>, Theoretical Computer Science (2016).(Preliminary version in COCOON 2014)</li> </ol>
	<ol> <li>Syamantak Das, Shamik Sural, Amit Patra, <i>"Resistance Estimation and Current Density Profiling for Lateral Power Arrays"</i>, IEEE Transactions on Computer Aided Design of Integrated Circuits and Systems, Vol.28, No.6, pp.837-845, 2009.     </li> </ol>
Submitted Manuscripts	<ol> <li>Parinya Chalermsook, Syamantak Das, Bundit Laekhanukit, Daniel Vaz "Better Sparsifier: Improved approximation algorithm for group steiner forest on bounded treewidth graphs", 2017</li> </ol>
	<ol> <li>Syamantak Das, Andreas Wiese "On minimizing the makespan when some jobs cannot be scheduled on the same machine", 2017</li> </ol>
Contributions of Thesis	• Introduces a new model for competitive analysis of online scheduling algorithms where one can <i>reject</i> a fraction of the input
	• Closes a gap in understanding of an offline scheduling problem with outliers through application of iterative rounding technique
Community Services	Served as sub-reviewer for ESA, SODA, ICALP, FSTTCS
Industry Experience	Cadence Design Systems(I) Pvt. Ltd.
	Member of Technical StaffSept 2007 - Dec 2009Worked as a part of the Research and Development team for Analog Integrated CircuitSolutions. Our team was involved in the development of software tools that are essentialfor designing modern IC chips. Specifically, I was responsible for Post Processing andVisualization Tools which are useful for analysis and viewing of simulation results

 $\ensuremath{\mathsf{PROGRAMMING}}$  I have industry experience of coding in C/C++ and Unix Shell Scripting Language Skills

## References

- Prof. Naveen Garg Department of Computer Science and Engineering Indian Institute of Technology Delhi Hauz Khas, New Delhi - 110016, India Email : naveen@cse.iitd.ac.in
- Prof. Amit Kumar Department of Computer Science and Engineering Indian Institute of Technology Delhi Hauz Khas, New Delhi - 110016, India Email : amitk@cse.iitd.ac.in
- Prof. Dr. Nicole Megow Universität Bremen
   FB3: Mathematik/Informatik
   28359 Bremen, Germany
   Email : nicole.megow@uni-bremen.de
- Dr. Parinya Chalermsook Department of Computer Science Aalto University 02150, Finland Email: parinya.chalermsook@aalto.fi
- Dr. Andreas Wiese Department of Industrial Engineering and Center for Mathematical Modeling Universidad de Chile, Chile Email : awiese@dii.uchile.cl