

Payam Delgosha

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EDUCATION	PhD in Electrical Engineering and Computer Science University of California, Berkeley <i>Technical Area:</i> Communication Systems <i>Advisor:</i> Prof. Venkat Anantharam	08/2014–present
	M.S. in Electrical Engineering Sharif University of Technology, Tehran, Iran <i>Technical Area:</i> Communication Systems <i>Thesis:</i> Applications of Repeated Games in Network Information Theory <i>Advisor:</i> Prof. Amin Aminzadeh Gohari <i>GPA:</i> 19.35 out of 20.00	08/2012–08/2014
	B.Sc. in Electrical Engineering and Mathematics (Double Major) Sharif University of Technology, Tehran, Iran <i>Technical Area:</i> Telecommunications, Pure Mathematics <i>Thesis:</i> The role of Information in Negotiation <i>Supervisor:</i> Prof. Amin Aminzadeh Gohari <i>GPA:</i> 19.03 out of 20.00	08/2007–08/2012
RESEARCH INTERESTS	Information Theory and Coding Game Theory Machine Learning Quantum Information Theory	
HONORS	Rank 1 st among Graduate students of Telecommunication Engineering, Sharif University of Technology	2012–2014
	Exempted from nationwide University Entrance Exam for M.S.	2012
	Rank 1 st among Bachelor students of Telecommunication Engineering	2008–2012
	Member of the <i>Iranian National Elites Foundation</i>	2007–present
	Rank 34 th among 270 thousand students in Iranian University Entrance Examination	07/2007
	Silver medal in the 15 th Iranian National Olympiad in Informatics, Iranian Young Scholars Club, Tehran, Iran	03/2006

PUBLICATIONS

Journals

1. **Payam Delgosha** and Venkat Anantharam, "Load Balancing in Hypergraphs", submitted to the Journal of Statistical Physics (preprint [arXiv:1710.00308](https://arxiv.org/abs/1710.00308))
2. **Payam Delgosha** and Amin Gohari. "Information Theoretic cutting of a cake." IEEE Transactions on Information Theory (2017).
3. **Payam Delgosha**, Amin Gohari, and Mohammad Akbarpour. "High-Probability Guarantees in Repeated Games: Theory and Applications in Information Theory." Proceedings of the IEEE 105.2 (2017): 189-204.
4. **Payam Delgosha** and Salman Beigi, "Impossibility of Local State Transformation via Hypercontractivity", Communications in Mathematical Physics, 332, 449–476 (2014)

Conferences

5. **Payam Delgosha** and Venkat Anantharam "Load Balancing in Hypergraphs", 55th Annual Allerton Conference on Communication, Control, and Computing, October 2017
6. **Payam Delgosha** and Venkat Anantharam. "Universal lossless compression of graphical data." Information Theory (ISIT), 2017 IEEE International Symposium on. IEEE, 2017.
7. **Payam Delgosha**, Amin Aminzadeh Gohari and Mohammad Akbarpour "High Probability Guarantees in Repeated Games: Theory and Applications in Information Theory", Information Theory (ISIT), 2016 IEEE International Symposium on. IEEE, 2016.
8. **Payam Delgosha** and Amin Aminzadeh Gohari, "Information Theoretic Cutting of a Cake", In proceedings of Information Theory Workshop 2012
9. Dominique Tschopp, Suhas Diggavi, **Payam Delgosha**, Soheil Mohajer, "Randomized Algorithms for Comparison-based Search", In proceedings of NIPS 2011
10. Mousavi, A., Pad, P., **Delgosha, P.**, and Marvasti F.: "A new decoding scheme for errorless codes for overloaded CDMA with active user detection", Telecommunications (ICT), 2011 18th International Conference on, 201-205, 2010

INTERNSHIPS

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| Summer internship at EPFL, under supervision of Prof. Suhas Diggavi , Switzerland | Summer 2011 |
| Summer internship at EPFL, Randomized Algorithms for Comparison-based Search, under supervision of Prof. Suhas Diggavi , Switzerland | Summer 2010 |

TEACHING

EXPERIENCE

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| Teaching Assistant , "Stochastic Processes in Systems" course, Prof. Venkat Anantharam, UC Berkeley | Fall 2016 |
| Teaching Assistant , "Quantum Information Theory" course, Prof. Amin Gohari and Prof. Salman Beigi, Sharif University of Technology | Fall 2013 |

COMPUTER SKILLS Programming in C, C++, Python
Mathematical software MATLAB
Mathematical software Mathematica
Typesetting system \LaTeX

REFERENCES Available upon request.