Parham Noorzad

Contact Information
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https://parhamnoorzad.com

Employment

Senior Product Manager **Feb. '22 – present**

Qualcomm, San Diego, CA

Product lead for next-generation AI technologies focused on:

- Development of tools to reduce time to deployment and improve on-device KPIs
- Building end-to-end workflows for designing new edge-based use cases

Responsibilities include gathering requirements, working with relevant stakeholders, defining solutions as part of roadmap development, and communicating overall strategy with executive team.

Staff Systems Engineer **Nov. '19 – Feb. '22**

Qualcomm AI Research, San Diego, CA

Overall tech lead for neural architecture search focusing on CV and NLP applications

Senior Systems Engineer **Aug. '17 – Nov. '19**

Qualcomm 5G / AI Research, San Diego, CA

Deep learning research engineer focused on applications in wireless and speech

Education

PhD in Electrical Engineering **Jun. '13 – Jun. '17**

California Institute of Technology, Pasadena, CA

Thesis. Network Effects in Small Networks: A Study of Cooperation

MSc in Electrical Engineering **Jul. '12 – Jun. '13**

California Institute of Technology, Pasadena, CA

BSc in Electrical Engineering **Sep. '08 – Jul. '12**

University of Tehran, Tehran, Iran

Publications (Machine Learning)

Conference Proceedings

1. J. M. Lin, P. Noorzad, Y. Yang, N. Kwak, and F. Porikli
   Phase Selective Convolution
   CVPR Embedded Vision Workshop 2021 (Best Paper Award)
   CVPR
2. B. Moons, P. Noorzad, A. Skliar, G. Mariani, D. Mehta, C. Lott, and T. Blankevoort
   Distilling Optimal Neural Networks: Rapid Search in Diverse Spaces
   CVF/IEEE International Conference on Computer Vision (ICCV) 2021
   CVF arXiv

Publications (Information Theory)

Journals

1. P. Noorzad, M. Langberg, and M. Effros
   Negligible Cooperation: Contrasting the Maximal- and Average-Error Cases
   IEEE Transactions on Information Theory, Vol. 67, No. 9, Sep. 2021
   IEEE:9469892 arXiv:1911.10449
2. P. Noorzad, M. Effros, M. Langberg, and V. Kostina
   The Birthday Problem and Zero-Error List Codes
   IEEE Transactions on Information Theory, Vol. 67, No. 9, Sep. 2021
   IEEE:9500216 arXiv:1802.04719
3. P. Noorzad, M. Effros, and M. Langberg
   Can Negligible Rate Increase Reliability?
   IEEE Transactions on Information Theory, Vol. 64, No. 6, June 2018
   IEEE:7944667 arXiv:1601.05769
4. P. Noorzad, M. Effros, and M. Langberg
   The Unbounded Benefit of Encoder Cooperation for the k-User MAC
   IEEE Transactions on Information Theory, Vol. 64, No. 5, May 2018
   IEEE:8125167 arXiv:1601.06113

Conference Proceedings

1. P. Noorzad, M. Effros, and M. Langberg
   Can Negligible Cooperation Increase Capacity? The Average-Error Case
   IEEE International Symposium on Information Theory, Vail, 2018
   IEEE:8437746 arXiv:1801.03655
2. P. Noorzad, M. Effros, M. Langberg, and V. Kostina
   The Birthday Problem and Zero-Error List Codes
   IEEE International Symposium on Information Theory, Aachen, 2017
   IEEE:8006809 arXiv:1802.04719
3. P. Noorzad, M. Effros, and M. Langberg
   The Benefit of Encoder Cooperation in the Presence of State Information
   IEEE International Symposium on Information Theory, Aachen, 2017
   IEEE:8006486 arXiv:1707.05869
4. P. Noorzad, M. Effros, and M. Langberg
   The Unbounded Benefit of Encoder Cooperation for the k-User MAC
   IEEE International Symposium on Information Theory, Barcelona, 2016
   IEEE:7541317 arXiv:1601.06113
5. P. Noorzad, M. Effros, and M. Langberg
   Can Negligible Cooperation Increase Network Reliability?
   IEEE International Symposium on Information Theory, Barcelona, 2016
   IEEE:7541606 arXiv:1601.05769
6. P. Noorzad, M. Effros, and M. Langberg
   On the Cost and Benefit of Cooperation
   IEEE International Symposium on Information Theory, Hong Kong, 2015
   IEEE:7282412 arXiv:1504.04432
7. P. Noorzad, M. Effros, M. Langberg, and T. Ho
   On the Power of Cooperation: Can a Little Help a Lot?
   IEEE International Symposium on Information Theory, Honolulu, 2014
   IEEE:6875411 arXiv:1401.6498