

## Joachim Matthias Neu

Ph.D. Student in Electrical Engineering, admitted Autumn 2018

### Publications

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#### PUBLICATIONS

- **OVERCOMING HIGH NANOPORE BASECALLER ERROR RATES FOR DNA STORAGE VIA BASECALLER-DECODER INTEGRATION AND CONVOLUTIONAL CODES**  
Chandak, S., Neu, J., Tatwawadi, K., Mardia, J., Lau, B., Kubit, M., Hulett, R., Griffin, P., Wootters, M., Weissman, T., Ji, H., IEEE  
IEEE.2020: 8822–26
- **Boomerang: Redundancy Improves Latency and Throughput in Payment-Channel Networks**  
Bagaria, V., Neu, J., Tse, D., Bonneau, J., Heninger, N.  
SPRINGER INTERNATIONAL PUBLISHING AG.2020: 304-324
- **Successive Cancellation Inactivation Decoding for Modified Reed-Muller and eBCH Codes**  
Coskun, M., Neu, J., Pfister, H. D., IEEE  
IEEE.2020: 437-442
- **Degrees-of-Freedom of the MIMO Three-Way Channel With Node-Intermittency** *IEEE TRANSACTIONS ON INFORMATION THEORY*  
Neu, J., Chaaban, A., Sezgin, A., Alouini, M.  
2019; 65 (10): 6781–6800
- **Ternary Quantized Polar Code Decoders: Analysis and Design**  
Neu, J., Coskun, M., Liva, G., Matthews, M. B.  
IEEE.2019: 1724–28
- **Babel Storage: Uncoordinated Content Delivery from Multiple Coded Storage Systems**  
Neu, J., Medard, M., IEEE  
IEEE.2019
- **Improved read/write cost tradeoff in DNA-based data storage using LDPC codes**  
Chandak, S., Tatwawadi, K., Lau, B., Mardia, J., Kubit, M., Neu, J., Griffin, P., Wootters, M., Weissman, T., Ji, H., IEEE  
IEEE.2019: 147–56