

Eymen Kurdoglu

CONTACT	315 87th Street, Apt. 4A, Brooklyn, NY, 11209 Website: https://eymenkurdoglu.github.io/about/	+1(443)562-6487 eymen.kurdoglu@nyu.edu
EDUCATION	NYU Tandon School of Engineering / Ph.D., Electrical Engineering <ul style="list-style-type: none">Advisors: Prof. Yao Wang, Prof. Yong Liu Jan. 2012 - Dec. 2016 (expected) École Polytechnique Fédérale de Lausanne / M.Sc., Communication Sciences <ul style="list-style-type: none">Advisors: Prof. Pascal Frossard, Dr. Nikolaos Thomos Sep. 2008 - June 2010 Middle East Technical University / B.Sc., Electrical and Electronics Engineering <ul style="list-style-type: none">Double major: B.Sc., Department of Physics	
WORK EXPERIENCE	NEC Labs America, Inc. / Internship, Optical Networking Group <ul style="list-style-type: none">Supervisor: Dr. Dayou Qian June 2013 - September 2013Worked on optical multicasting for software-defined networking	
SKILLS	C/C++, MATLAB, Python, Bash; libav, libx264; event-driven programming, distributed systems; Linux; Probabilistic analysis, Mathematical optimization, Networks, Machine Learning, Forecasting; French, German (intermediate); Drumming	
RESEARCH	Maximizing the perceptual quality of video calls over unreliable networks <ul style="list-style-type: none">“Frame Rate and FEC Strategy Adaptation for End-to-End Quality Maximization for Video Calls with Packet Losses”, (in preparation) E. Kurdoglu, Y. Liu, Y. Wang Live 360 video streaming with adaptive bit-rate <ul style="list-style-type: none">“View Direction and Bandwidth Adaptive 360 Degree Video Streaming Using Two-Tier System”, (submitted to ISCAS’17) F. Duanmu, E. Kurdoglu, Y. Liu, Y. Wang Ground-up design of a video call app for cellular networks, with real-world Linux implementation (supported by WeChat International - Tencent Inc. in China) <ul style="list-style-type: none">“Real-time Bandwidth Prediction and Rate Estimation for Video Calls over Cellular Networks”, E. Kurdoglu, Y. Liu, Y. Wang, Y. Shi, C. Gu, J. Lyu, ACM MMSys, 2016 High-level design of P2P multi-party video conferencing systems <ul style="list-style-type: none">“Dealing with User Heterogeneity in P2P Multi-party Video Conferencing: Layered Distribution Versus Partitioned Simulcast”, E. Kurdoglu, Y. Liu, Y. Wang, IEEE Transactions on Multimedia, vol. 18, no. 1, 2016“Dealing with User Heterogeneity in P2P Multiparty Video Conferencing: Layered Coding Versus Receiver Partitioning”, E. Kurdoglu, Y. Liu, Y. Wang, Communication and Networking Techniques for Contemporary Video Workshop at INFOCOM, 2014 Optimizing coding and scheduling decisions for layered video streaming in P2P networks <ul style="list-style-type: none">“Adaptive Prioritized Random Linear Coding and Scheduling for Layered Data Delivery from Multiple Servers”, N. Thomos, E. Kurdoglu, P. Frossard, M. van der Schaar, IEEE Transactions on Multimedia, vol. 17, no. 6, 2015“Scalable Video Dissemination with Prioritized Network Coding”, E. Kurdoglu, N. Thomos, P. Frossard, Streaming and Media Communication Workshop at ICME, 2011 Incentivizing nodes to perform network coding in mesh P2P networks <ul style="list-style-type: none">“Network Coding Node Selection Game in Collaborative Streaming Systems”, N. Thomos, H. Park, E. Kurdoglu, P. Frossard, ICASSP, 2010	
TEACHING	TA for “Data Structures and Algorithms”, “Internet Architecture and Protocols”, “Communication Networks: Design and Algorithms”, “Information Theory and Coding”	
AWARDS	“Full Excellence Scholarship” for M.Sc. studies by EPFL, “Silver Project Award” in the Senior Design Course at METU EEE	