
PUBLICATION LIST

BEATS

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Publications in conference proceedings

- [1] "Quantifying performance losses in source-channel coding," F. Hekland, G. E. Øien, and T. A. Ramstad, in Proc. European Wireless, Paris, France, April 2007.
- [2] "Blind carrier frequency offset estimation for OFDM/OQAM systems based on subchannel signals," G. Lin, L. Lundheim, and N. Holte, in Proc. IEEE GLOBECOM '06, Nov. 27 - Dec. 1 2006, San Francisco, USA.
- [3] "Impact of spatial correlation on adaptive coded modulation performance in Rayleigh fading," B. Holter and G. E. Øien, in Proc. International Telecommunications Symposium, Fortaleza-Ceará, Brazil, September 2006.
- [4] "Analysis and optimization of SIMO systems with adaptive coded modulation in spatially correlated Rayleigh fading," D. V. Duong, B. Holter, and G. E. Øien, in Proc. IEEE VTC Fall 2006, Montreal, Canada, September 2006.
- [5] "Performance Analysis of a Rate-Adaptive Dual-Branch Switched Diversity System," B. Holter and G. E. Øien, in Proc. IEEE VTC Fall 2006, Montreal, Canada, September 2006.
- [6] "Image transmission with adaptive power and rate allocation over flat fading channels using joint source channel coding," G. H. Håkonsen, T. A. Ramstad and A. Gjendemsjø, in Proc. International Conference on Wireless Information Networks and Systems, Setubal, Portugal, August 2006.
- [7] "On joint source-channel coding for the non-white Gaussian case," T. A. Ramstad, in Proc. International Workshop on Signal Processing Advances in Wireless Communications (SPAWC-2006), Cannes, France, July 2006.
- [8] "Optimal rate-constrained transcoding for a 2:1 bandwidth reducing Shannon mapping," F. Hekland and T. A. Ramstad, in Proc. International Workshop on Signal Processing Advances in Wireless Communications (SPAWC-2006), Cannes, France, July 2006.
- [9] "Optimal design for uniform planar antenna arrays for strong line-of-sight channels," F. Bøhagen, P. Orten, and G. E. Øien, in Proc. International Workshop on Signal Processing Advances in Wireless Communications (SPAWC-2006), Cannes, France, July 2006.
- [10] "New methods for blind fine estimation of carrier frequency offset in OFDM/OQAM systems," G. Lin, L. Lundheim, and N. Holte, in Proc. IEEE International Workshop on Signal Processing Advances for Wireless Communications (SPAWC '06), Cannes, France, July 2006.

- [11] "On losses of performance in a joint source channel coder," G. H. Håkonsen and T. A. Ramstad, in Proc. 7th Nordic Signal Processing Symposium, Askja, University of Iceland, Reykjavik, Iceland, June 2006.
- [12] "Image Transmission over Flat Fading Channels Using Joint Source Channel Coding," G. H. Håkonsen and T. A. Ramstad, in Proc. Data Compression Conference (DCC) 2006, Snowbird, Utah, USA, Mar. 28 - 30, 2006.
- [13] "Digitising the 2:1 Shannon Mappings for Transport over Heterogeneous Networks," F. Hekland and T. A. Ramstad, in Proc. Data Compression Conference (DCC) 2006, Snowbird, Utah, USA, Mar. 28 - 30, 2006.
- [14] "Design of Robust Pulses to Carrier Frequency Offset for OFDM/OQAM System," G. Lin, N. Holte and L. Lundheim, accepted for publication in Proc. IEEE Global Telecommunications Conference (Globecom), St. Louis, Missouri, USA, Nov. 28 - Dec. 2, 2005.
- [15] "Combined error protection and compression using turbo codes for error resilient image transmission," A. N. Kim, S. Sesia, T. A. Ramstad and G. Caire, accepted for publication in Proc. IEEE International Conference on Image Processing, Genova, Italy, Sept. 11 - 14, 2005.
- [16] "Optimization of pilot spacing and power in adaptive coded modulation systems with correlated receive antenna diversity," D. V. Duong, M. Å. Wingar, and G. E. Øien, accepted for publication in Proc. Norwegian Signal Processing Symposium (NORSIG) 2005, Stavanger, Norway, September 2005.
- [17] "Adaptive coded modulation with receive antenna diversity and imperfect channel knowledge at receiver and transmitter," D. V. Duong, G. E. Øien, and K. J. Hole, accepted for publication in Proc. 13th European Signal Processing Conference, Antalya, Turkey, September 4 - 8, 2005.
- [18] "On efficient equalization for OFDM/OQAM systems," G. Lin, L. Lundheim and N. Holte, accepted for publication in Proc. 10th International OFDM-Workshop, Hamburg, Germany, August 31 - September 1, 2005.
- [19] "On the Shannon capacity of dual MIMO systems in Ricean fading," F. Bøhagen, P. Orten og G. E. Øien, in Proc. 6th IEEE International Workshop on Signal Processing Advances in Wireless Communications, New York, USA, June 5 - 8, 2005.
- [20] "Optimal pilot spacing and power in rate-adaptive MIMO diversity systems with imperfect transmitter CSI," D. V. Duong, B. Holter and G. E. Øien, in Proc. 6th IEEE International Workshop on Signal Processing Advances in Wireless Communications, New York, USA, June 5 - 8, 2005.
- [21] "Modeling and analysis of a 40 GHz MIMO system for fixed wireless access," F. Bøhagen, P. Orten, and G. E. Øien, in Proc. IEEE VTC-2005 Spring, Stockholm, Sweden, May/June 2005.
- [22] "Construction and capacity analysis of high-rank line-of-sight MIMO channels," F. Bøhagen, P. Orten, and G. E. Øien, in Proc. IEEE Wireless Communications & Networking Conference (WCNC) 2005, New Orleans, USA, March 13 - 17, 2005.

- [23] "Practical low bit rate predictive image coder using multi-rate processing and adaptive entropy coding," A. N. Kim and T. A. Ramstad, in Proc. IEEE 11th International Conference on Image Processing, Singapore, October 2004.
- [24] "Multiuser switched diversity transmission," B. Holter, M. -S. Alouini, G. E. Øien and H. -C. Yang, accepted for publication in Proc. IEEE Vehicular Technology Conference, Los Angeles, USA, September 2004.
- [25] "Spectral efficiency bounds for adaptive coded modulation with outage probability constraints and imperfect channel prediction," O. Jetlund, G. E. Øien, H. Holm, and K. J. Hole, in Proc. Nordic Radio Symposium, Oulu, Finland, August 2004.
- [26] "Adaptive trellis-coded modulation with imperfect channel state information at the receiver and transmitter," D. V. Duong and G. E. Øien, in Proc. Nordic Radio Symposium, Oulu, Finland, August 2004.
- [27] "Optimalisering av adaptiv koding og modulasjon for cellulære systemer," F. Bøhagen, Studiemøtet for Elektronikk og Data, Sandvika, 17 - 18 juni, 2004.
- [28] "Adaptive Gallager coded modulation scheme on Rayleigh fading channels: Comparison of simulated and theoretical performance," O. Jetlund, G.E. Øien, K.J. Hole, and B. Holter, in Proc. of IEEE Norwegian Symposium on Signal Processing, Bergen, Norway, Oct. 2-4, 2003.
- [29] "Influence of DFT/FFT coefficient quantizing on OFDM receiver performance," L. Lundheim, in Proc. of IEEE Norwegian Symposium on Signal Processing, Bergen, Norway, Oct. 2-4, 2003.
- [30] "The marriage of subband coding and OFDM transmission, " T. A. Ramstad, in Proc. 6th Baiona Workshop on Signal Processing in Communications, Baiona, Spain, Sept. 8-10, 2003.
- [31] "Bounds on average area spectral efficiency for adaptive coded modulation in cellular networks," F. Bøhagen, G. E. Øien, M.-S. Alouini, and K. J. Hole, in Proc. 6th Baiona Workshop on Signal Processing in Communications, Baiona, Spain, Sept. 8-10, 2003.
- [32] "How accurate are the Gaussian and Gamma approximations to the outage capacity of MIMO channels?," M. Kang, M.-S. Alouini, and G. E. Øien, in Proc. 6th Baiona Workshop on Signal Processing in Communications, Baiona, Spain, Sept. 8-10, 2003.
- [33] "Optimal Design of Adaptive Coded Modulation Schemes for Maximum Average Spectral Efficiency," H. Holm, G. E. Øien, M.-S. Alouini, D. Gesbert, and K. J. Hole, in Proc. IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2003), Rome, Italy, Jun. 15-18, 2003.
- [34] "Performance of Buffered Adaptive Transmission," L. Yang, M.-S. Alouini, G. E. Øien, in Proc. COST 273 Workshop on Broadband Wireless Local Access, May 21-22, 2003, Paris France.
- [35] "Limitations in spectral efficiency of a rate adaptive MIMO system utilizing pilot-aided channel prediction," B. Holter, G. E. Øien, K. J. Hole, and H.

- Holm, in Proc. IEEE Vehicular Technology Conference, Jeju, Korea, Apr. 22 - 25, 2003.
- [36] "Adaptive coded modulation for wireless OFDM channels: Upper bounds on average spectral efficiency and influence of imperfect channel knowledge," K. J. Hole, G. E. Øien, and H. Holm, in Proc. IEE Conference Getting the Most out of the Radio Spectrum, London, UK, Oct. 24 - 25, 2002.
- [37] "Bit error rate analysis of adaptive coded modulation with mismatched and complexity-limited channel prediction," G. E. Øien, R. K. Hansen, D. V. Duong, H. Holm, and K. J. Hole, in Proc. 5th IEEE Nordic Signal Processing Symposium (NORSIG-2002), Hurtigruten, Norway, Oct. 4 - 7, 2002.
- [38] "The optimal weights of a maximum ratio combiner using an eigenfilter approach," B. Holter and G. E. Øien, in Proc. 5th IEEE Nordic Signal Processing Symposium (NORSIG-2002), Hurtigruten, Norway, Oct. 4 - 7, 2002.
- [39] "Optimality of combined source-channel coding systems with multiple sources and parallel channels," G. H. Håkonsen and T. A. Ramstad, in Proc. 5th IEEE Nordic Signal Processing Symposium (NORSIG-2002), Hurtigruten, Norway, Oct. 4 - 7, 2002.
- [40] "Adaptive coded modulation with imperfect channel state information: System design and performance analysis aspects," G. E. Øien, H. Holm, and K. J. Hole, invited paper in Proc. IEEE International Symposium on Advances in Wireless Communications (ISWC-2002), Victoria, BC, Canada, Sept. 23 - 24, 2002.
- [41] "Channel prediction for adaptive coded modulation in Rayleigh fading," Geir E. Øien, Henrik Holm and Kjell J. Hole, in Proc. European Signal Processing Conference (EUSIPCO) 2002, Toulouse, France, Sept. 3 - 6, 2002,
- [42] "Comparing performance of entropy constrained scalar quantizer and other scalar quantizers," Anna N. Kim, Tor A. Ramstad, in Proc. DSP2002, Santorini, Greece, Jul. 1-3, 2002.
- [43] "LPDC-coded adaptive modulation on slowly varying Nakagami-fading channels," Bård Myhre, Vidar Markhus and Geir E. Øien, in Proc. European Wireless 2002, pp. 822 - 828, Firenze, Italy, Feb. 25 - 28, 2002.
- [44] "A new method for calculating the channel capacity in pair cables with respect to near end crosstalk," Nils Holte, in Proc. DSLcon Europe, Munich, Germany, Nov. 26 - 29, 2001.
- [45] "On the role of Wiener filtering in quantization and DPCM," Geir E. Øien and Tor A. Ramstad, in Proc. of IEEE Norwegian Symposium on Signal Processing, pp.70-72, Trondheim, Norway, Oct. 18 - 20, 2001.
- [46] "Broadband communication in existing copper cables by means of XDSL systems - a tutorial," Nils Holte, in Proc. of IEEE Norwegian Symposium on Signal Processing, pp.162-166, Trondheim, Norway, Oct. 18 - 20, 2001.
- [47] "On the capacity of the MIMO channel : A tutorial introduction," Bengt Holter, in Proc. of IEEE Norwegian Symposium on Signal Processing, pp.167-172, Trondheim, Norway, Oct. 18 - 20, 2001.

- [48] "LDPC coded adaptive multilevel modulation for slowly varying Rayleigh-fading channels," Bård Myhre, Vidar Markhus and Geir E. Øien, in Proc. of IEEE Norwegian Symposium on Signal Processing, pp.129-134, Trondheim, Norway, Oct. 18 - 20, 2001.
- [49] "Analysis of adaptive coded modulation with antenna diversity and feedback delay," Kjell J. Hole, Henrik Holm, and Geir E. Øien, in Proc. IST Mobile Communications Summit, pp.865 - 870, Barcelona, Spain, Sept. 2001.
- [50] "Rate-adaptive modulation and coding in fixed Ka-band satellite communications: a feasibility study," Kjell J. Hole, Geir E. Øien, Bjarne Risløw, and Pål Orten," in Proc. Nordic Radio Symposium, Nynashamn, Sweden, Apr. 3 - 5, 2001.
- [51] "Maximum average spectral efficiency of slowly varying Rayleigh fading channels with pilot-symbol-assisted channel estimation," Geir E. Øien and Kjell J. Hole, in Proc. European Personal Mobile Communications Conference, Vienna, Austria, Feb. 20 - 22, 2001.

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- [52] "Performance Analysis of a Rate-Adaptive Dual-Branch Switched Diversity System," B. Holter and G. E. Øien, accepted for publication in IEEE Transactions on Communications.
- [53] "Shannon-Kotel'nikov Mappings in Joint Source-Channel Coding F. Hekland," P.A. Floor and Tor A. Ramstad, accepted for publication in IEEE Transactions on Communications.
- [54] "Impact of Spatial Correlation on Adaptive Coded Modulation Performance in Rayleigh Fading," B. Holter and G. E. Øien, IEEE Transactions on Vehicular Technology, vol. 56, no. 3, pp. 1176-1186, May 2007.
- [55] "Optimal Pilot Spacing and Power in Rate-Adaptive MIMO Diversity Systems With Imperfect CSI," D. V. Duong and G. E. Øien, IEEE Transactions on Wireless Communications, vol. 6, no. 3, pp. 845-851, March 2007.
- [56] "Adaptive coded modulation with receive antenna diversity and imperfect channel knowledge at receiver and transmitter," D. V. Duong, G. E. Øien, and K. J. Hole, IEEE Transactions on Vehicular Technology, vol. 55, no. 2, pp. 458-465, March 2006.
- [57] "On the Amount of Fading in MIMO Diversity Systems," B. Holter and G. E. Øien, IEEE Transactions on Wireless Communications, vol. 4, no. 5, pp. 2498-2507, September 2005.
- [58] "Radio Interface and Access Technologies for Wireless and Mobile Systems beyond 3G," G. E. Øien, invited paper Teletronikk vol. 100, no. 3 (100th Anniversary Issue), November 2004, pp. 55 - 68.
- [59] "Sum and Difference of Two Squared Correlated Nakagami Variates in Connection with the McKay Distribution," H. Holm and M. -S. Alouini, IEEE Transactions on Communications, Vol. 52, No. 8, pp. 1367-1376, Aug. 2004.

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- [61] "Weaknesses in the Temporal Key Hash of WPA," V. Moen, H. Raddum, and K. J. Hole, Mobile Computing and Communications Review, pp. 76–83, April 2004.
- [62] "Shannon Mappings for Robust Communication," T. A. Ramstad, Teletronikk (special issue on "Information theory and its applications") vol. 98, no. 1-2002, pp. 114-128, ISSN 0085-7130, published by Telenor.
- [63] "On Shannon and 'Shannon's Formula'," Lars Lundheim, Teletronikk (special issue on "Information theory and its applications") vol. 98, no. 1-2002, pp. 20-29, ISSN 0085-7130, published by Telenor.
- [64] "The true channel capacity of pair cables with respect to near end crosstalk," Nils Holte, Teletronikk (special issue on "Information theory and its applications") vol. 98, no. 1-2002, pp. 35-46, ISSN 0085-7130, published by Telenor.
- [65] "Bounds on the average spectral efficiency of adaptive coded modulation," Kjell J. Hole, Teletronikk (special issue on "Information theory and its applications") vol. 98, no. 1-2002, pp. 47-52, ISSN 0085-7130, published by Telenor.
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- [67] "Adaptive coding and modulation: A key to bandwidth-efficient multimedia communications in future wireless systems," Kjell J. Hole and Geir E. Øien, Teletronikk (special issue on "Wireless future") vol. 97, no. 1-2001, pp. 49-57, ISSN 0085-7130. May 2001, published by Telenor.
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Talks and Presentations

- [69] "Shannon-Kotel'nikov Mappings for Joint Source-Channel Coding," Fredrik Hekland, PhD defence - thesis presentation, June 1, 2007, Trondheim, Norway.
- [70] "Distributed Source Coding," Fredrik Hekland, PhD defence - trial lecture, June 1, 2007, Trondheim, Norway.
- [71] "Flexible and heterogeneous: Radio access beyond 3G," G. E. Øien, invited talk, Teletronikk's 100th Anniversary Seminar, Telenor R&D, Fornebu, Norway, Nov. 24th, 2004.

- [72] "OFDM with pulse shaping," Gang Lin, IKT-2010 seminar, Lillestrøm, Sept. 20/21, 2004.
- [73] "Transcoding in heterogeneous communication systems: Digitising joint source-channel coded (JSCC) symbols," F. Hekland, IKT-2010 seminar, Lillestrøm, Sept. 20/21, 2004.
- [74] "Optimization of a joint source-channel coding system for OFDM, in the Gaussian case," G. H. Håkonsen, IKT-2010 seminar, Lillestrøm, Sept. 20/21, 2004.
- [75] "Adaptive coded modulation with imperfect CSI and receive antenna diversity," D. V. Duong, IKT-2010 seminar, Lillestrøm, Sept. 20/21, 2004.
- [76] "Spatial diversity and multiuser diversity in wireless communications," B. Holter, IKT-2010 seminar, Lillestrøm, Sept. 20/21, 2004.
- [77] "The NEWCOM Network of Excellence," Geir E. Øien, "friday lecture" (signal processing group), NTNU, May 21, 2004.
- [78] "OPTA for the multisource, multichannel Gaussian case," Tor A. Ramstad, BEATS project meeting, NTNU, Dec. 12, 2003.
- [79] "Performance analysis of a rate-adaptive dual-branch switched diversity system," Bengt Holter and Geir E. Øien, presented by Bengt Holter at the BEATS project meeting, NTNU, Dec. 12, 2003.
- [80] "CUBAN: Co-optimized Ubiquitous Broadband Access Networks," Lars Lundheim, BEATS project meeting, NTNU, Dec. 12, 2003.
- [81] "Pilot-Aided Adaptive Gallager Coded Modulation on Correlated Rayleigh Channels," O. Jetlund, G. E. Øien, B. Holter, K. J. Hole, presented by Ola Jetlund at the joint BEATS/Wireless IP Seminar, Loen, Norway, Jun. 4-6, 2003.
- [82] "Joint source-channel coding, Theoretical limits and practical approaches," T. A. Ramstad, presented by Greg H. Håkonsen at the joint BEATS/Wireless IP Seminar, Loen, Norway, Jun. 4-6, 2003.
- [83] "Co-Optimized Ubiquitous Broadband Access Networks (CUBAN)," L. Lundheim, Joint BEATS/Wireless IP Seminar, Loen, Norway, Jun. 4-6, 2003.
- [84] "Diversity Factor Characterization for MIMO Channels with Spatial Correlation," Bengt Holter and Geir E. Øien, presented by Bengt Holter at the joint BEATS/Wireless IP Seminar, Loen, Norway, Jun. 4-6, 2003.
- [85] "Optimization of Adaptive Coded Modulation Schemes for Maximum Average Spectral Efficiency," H. Holm, G. E. Øien, M. -S. Alouini, D. Gesbert and K. j. Hole, presented by Geir E. Øien at the joint BEATS/Wireless IP Seminar, Loen, Norway, Jun. 4-6, 2003.
- [86] "Presentation of the BEATS project," Geir E. Øien, Joint BEATS/Wireless IP Seminar, Loen, Norway, Jun. 4-6, 2003.

- [87] "Bredbåndsteknologier, ytelser og begrensninger," Nils Holte, Måleteknikk konferansen 2003, Storefjell, Mar. 24 - 26, 2003.
- [88] "New Improvements on Rate-Distortion Performance of DPCM Using Multi-Rate Processing," Anna A. Kim, BEATS seminar, NTNU, Oct. 10, 2002.
- [89] "Recent research on pair cable systems," Nils Holte, BEATS seminar, NTNU, Oct. 10, 2002.
- [90] "Some new results in the performance analysis of multihop and diversity systems," Mohamed-Slim Alouini, BEATS seminar, NTNU, Oct. 10, 2002.
- [91] "Overview of activities and recent results in joint source-channel coding," Tor Ramstad, BEATS seminar, NTNU, Oct. 10, 2002.
- [92] "The BEATS project," Geir E. Øien, Bengt Holter, Kjell J. Hole, Nils Holte, and Tor Ramstad, presented by Geir E. Øien at NFR's ICT seminar, Tromsø, Nov. 26, 2001.
- [93] "Channel Capacity of Wireless Channels," Geir E. Øien and Kjell J. Hole presented by Geir E. Øien at Claude E. Shannon In Memoriam Seminar, Telenor Research and Development, Kjeller, Norway, Aug. 9, 2001.
- [94] "Shannon mappings in discrete-time communications (in Norwegian)," Tor Ramstad, Claude E. Shannon In Memoriam Seminar, Telenor Research and Development, Kjeller, Norway, Aug. 9, 2001.
- [95] "Adaptive trellis coded modulation for Ka-band fixed satellite communications - Part I: System model and spectral efficiency," Kjell J. Hole, Geir E. Øien, Bjarne Risløw, and Pål Orten.
- [96] "Adaptive trellis coded modulation for Ka-band fixed satellite communications - Part II: Feedback delay, outage, and multimedia communications," Kjell J. Hole, Geir E. Øien, Bjarne Risløw, and Pål Orten.
- [97] "Adaptive trellis coded modulation for Ka-band fixed satellite communications - Part III: Channel estimation issues," Geir E. Øien, Kjell J. Hole, Bjarne Risløw, and Pål Orten.

Theses and reports

- [98] "On the Design and Analysis of Shannon-Kotel'nikov Mappings for Joint Source-Channel Coding," Fredrik Hekland, PhD thesis, Dept. of Electronics and Telecommunications, NTNU, June 2007.
Supervisors: Professor Tor Ramstad and Professor Geir E. Øien
- [99] "On the Design and Optimization of OFDM Systems," Gang Lin, PhD thesis, Dept. of Electronics and Telecommunications, NTNU, November 2006.
Supervisors: Associate Professor Lars Lundheim and Professor Nils Holte
- [100] "Analysis and Optimization of Pilot-Aided Adaptive Coded Modulation Under Noisy Channel State Information and Antenna Diversity," Duc Van Duong, PhD thesis, Dept. of Electronics and Telecommunications, NTNU,

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- [101] "Blind carrier frequency offset estimation for OFDM/OQAM over multipath channel," G. Lin, L. Lundheim, and N. Holte, Internal note 9, Mar. 8, 2006
- [102] "Blind carrier frequency offset estimation for OFDM/OQAM systems over multipath channel based on correlation function," G. Lin, L. Lundheim, and N. Holte, Internal note 11, Feb. 16, 2006.
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- [104] "Adaptive coded modulation in spatial and multiuser diversity systems," Bengt Holter, dr. ing. thesis, Dept. of Electronics and Telecommunications, NTNU, June 2005.
Supervisors: Professor Geir E. Øien and Professor Kjell J. Hole.
- [105] "Adaptive coded modulation: Design and simulation with realistic channel state information," Ola Jetlund, dr. ing. thesis, Dept. of Electronics and Telecommunications, NTNU, April 2005.
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- [111] "A review of joint source-channel coding," Doctoral student F. Hekland.
- [112] "Switching thresholds for robust adaptive modulation with predicted channel state information: A step towards an analytical solution", O. Jetlund, G. E. Øien, and H. Holm, COST 273 TD(04)-034, report submitted to the 9th Management Committee Meeting of COST Action 273, Athens, Greece, Jan. 26 - 28, 2004. 12 pages.

- [113] "ARQ Transmission over flat-fading channel using adaptive coded modulation," Chang Han, M. Sc. thesis, Department of Telecommunications, NTNU, January 2004.
Supervisors: Professor Geir E. Øien and Doctoral student Duc Van Duong
- [114] "Two-way communications using adaptive coded modulation over a time-divided wireless link," H. H. Bjørnsen, siv. ing. thesis (in Norwegian) Dept. of Telecommunications, NTNU, June 2003.
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- [115] "Simulation of correlated Nakagami-m fading channels," Thang Manh Tran, siv. ing. thesis (in Norwegian) Dept. of Telecommunications, NTNU, June 2003.
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- [117] "Comparison of adaptive coding and modulation with a incremental redundancy ARQ scheme," J. H. Skjørdal, siv. ing. thesis, Dept. of Telecommunications, NTNU, June 2003.
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- [120] "Optimal Channel Prediction in an Adaptive Gallager Coded Modulation Scheme on Rayleigh Fading Channels," O. Jetlund, G. E. Øien, B. Holter, and K. J. Hole, COST 273 TD (03)-127, presented at 7th Management Committee Meeting of COST Action 273, Towards Mobile Broadband Multimedia Networks, Paris, France, May 21th - 23th, 2003. 18 pages.
- [121] "Adaptive Gallager Coded Modulation on Rayleigh Fading Channels: Comparison of Simulated and Theoretical Performance," O. Jetlund, G. E. Øien, and K. J. Hole, COST 273 TD (03)-040, presented at 6th Management Committee Meeting of [COST Action 273](#), Towards Mobile Broadband Multimedia Networks, Barcelona, Spain, January 15th - 17th, 2003. 12 pages.
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Supervisors: Professor Geir E. Øien, Doctoral student Ola Jetlund

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- [124] "Channel prediction for adaptive coded modulation with limited predictor complexity," D. V. Duong, siv. ing. thesis (in Norwegian), Dept. of Telecommunications, NTNU, June 2002.
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- [135] "Presentation of the BEATS project," Geir E. Øien.
- [136] "Optimization of Adaptive Coded Modulation Schemes for Maximum Average Spectral Efficiency," Geir E. Øien.
- [137] "Diversity Factor Characterization for MIMO Channels with Spatial Correlation," Bengt Holter.
- [138] "Co-Optimized Ubiquitous Broadband Access Networks (CUBAN)," Lars Lundheim.
- [139] "Joint source-channel coding, Theoretical limits and practical approaches," Tor Ramstad (presented by Greg H. Håkonsen).
- [140] "Pilot-Aided Adaptive Gallager Coded Modulation on Correlated Rayleigh Channels," Ola Jetlund.

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- [141] "The BEATS project," Geir E. Øien.
- [142] "The CUBAN project," Lars Lundheim.
- [143] "Multiuser switched diversity transmission," Bengt Holter.
- [144] "On the performance limits of joint source-channel coding using subband decomposition and OFDM transmission," Tor A. Ramstad.
- [145] "Joint source-channel coding," Anna Kim.
- [146] "Adaptive trellis-coded modulation with imperfect channel state information at both transmitter and receiver, and receive antenna diversity," Duc Van Duong.
- [147] "Practical upper bounds on spectral efficiency in adaptive coding and modulation," Ola Jetlund.

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Sidi Bou Said, Tunisia, May 23-25, 2005

- [148] "Joint source-channel coding using 2:1 Shannon mappings," F. Hekland.
- [149] "Transmitting composite Gaussian sources over Rayleigh fading channels," T. A. Ramstad.
- [150] "Joint source channel image coder for transmission over flat fading channels," G. Håkonsen