

CUBIN Publications – 2005

Edited Book Publications

* Andrew, L. L. H., Tan L., Cui, T. and Zukerman, M., “Fairness Comparison of FAST TCP and TCP Vegas”, in X. Liang, Z. Xin, V. B. Iversen and G. S. Kuo (Eds.), Performance Challenges for Efficient Next Generation Networks, vol. 6b, pp. 1375-1384, ISBN 7-5635-1141-5, Beijing University Post and Telecommunications Press, Proceedings of ITC 19, Beijing, China, September 2005

* Brazil, M., Lee, D., Rubinstein, J. H., Thomas, D. A., Weng, J. F. and Wormald, N. C., “Optimisation in the design of underground mine access” in Uncertainty and Risk Management in Orebody Modelling and Strategic Mine Planning, Melbourne, Australia: AusIMM Spectrum Series, vol.14, Edited by Roussos Dimitrakopoulos, November 2005

Halgamuge, M. N., Guru, S. M. and Jennings A., “Centralised Strategies for Cluster Formation in Sensor Networks”, in Classification and Clustering for Knowledge Discovery, ISBN: 3-540-26073-0, Chapter 20, Springer-Verlag , pp. 315-334, August 2005

Huang, Q., Chan, S., Ping, L., Ko, K. T. and Zukerman, M., “Performance Modelling of TCP Over Wireless Links with Hybrid ARQ”, in X. Liang, Z. Xin, V. B. Iversen and G. S. Kuo (Eds.), Performance Challenges for Efficient Next Generation Networks, vol. 6c, pp. 2267-2276, ISBN 7-5635-1141-5, Beijing University Post and Telecommunications Press, Proceedings of ITC 19, Beijing, China, September 2005

Sakurai, T. and Vu, H. L., “Access Delay of the IEEE 802.11 MAC Protocol under Saturation”, in Liang, X., Xin, Z., Iversen, V. B. and Kuo, G. S. (Editors), “Performance Challenges for Efficient Next Generation Networks”, vol. 6b, pp. 1325-1334, ISBN 7-5635-1141-5, Beijing University Post and Telecommunications Press, Proceedings of ITC 19, Beijing, China, September 2005

Tan, L., Wang, H. and Zukerman, M., “A Distributed Bandwidth Fair Allocation Algorithm for RPR Networks,” in X. Liang, Z. Xin, V. B. Iversen and G. S. Kuo (Editors), Performance Challenges for Efficient Next Generation Networks, vol. 6a, pp. 1-10, ISBN 7-5635-1141-5, Beijing University Post and Telecommunications Press, Proceedings of ITC 19, Beijing, China, September 2005

* Zalesky, A., Wong, E. W. M., Vu, H. L., Zukerman, M., Rosberg Z. and Bilgrami, M. S., "Computing Blocking in a Hybrid Optical Switch", in X. Liang, Z. Xin, V. B. Iversen and G. S. Kuo (Editors), Performance Challenges for Efficient Next Generation Networks, vol. 6b, pp. 1385-1394, ISBN 7-5635-1141-5, Beijing University Post and Telecommunications Press, Proceedings of ITC 19, Beijing, China, September 2005

Journal Papers

- Abry, P., Flandrin, P. and Veitch, D., "Internet, comment réguler le trafic", *La Recherche*, no 384, pp. 50-53, March 2005
- Alpcan, T., Basar T. and Dey, S., "A Power Control Game Based on Outage Probabilities for Multi-cell Wireless Data Networks", *IEEE Transactions on Wireless Communications*, January 2005
- * Andrew, L. L. H., Cui, T., Sun, J., Zukerman, M., Ko, K. T. and Chan, S., "Buffer Sizing for Nonhomogeneous TCP Sources," *IEEE Communications Letters*, vol. 9, no. 6, pp. 567-569, June 2005
- Andrew, L. L. H., "Measurement-based band allocation in multi-band CDMA", *IEEE Transactions on Wireless* vol. 4, no. 2, pp. 475-483, March 2005
- Athaudage, C. R. N. and Angiras, R. R. V., "Sensitivity of FFT-equalized zero-padded OFDM systems to time and frequency synchronization errors", *IEE Proceedings of Communications*, vol.152, no. 6, pp. 945-951, December 2005
- Attygalle, M., Lim, C., Pendock, G. J., Nirmalathas, A. and Edvell, G., "Transmission improvement in fiber wireless links using fiber Bragg gratings", *IEEE Photonics Technology Letters*, vol. 17, pp. 190-192, 2005
- * Bakaul M., Nirmalathas A. and Lim C., "Multifunctional WDM Optical Interface for Millimeter-Wave Fiber-Radio Antenna Base Station", *IEEE Journal of Lightwave Technology*, vol. 23, no. 3, pp. 1210-1218, 2005
- * Bakaul M., Nirmalathas A., Lim C., Novak D. and Waterhouse R., "Efficient Multiplexing Scheme for Wavelength-Interleaved DWDM Millimeter-Wave Fiber-Radio Systems", *IEEE Photonics Technology Letters*, vol. 17, no. 12, pp. 2718-2720, 2005
- * Brazil, M., Thomas, D. A., Weng, J. F., Rubinstein, J.H. and Lee, D.H., "Cost Optimization for Underground Mining Networks", *Optimization and Engineering*, vol.6, pp. 241-256, 2005
- Brazil, M., Thomas, D. A., Weng, J. F. and Zachariasen, M. "Canonical Forms and Algorithms for Steiner Trees in Uniform Orientation Metrics", *Algorithmica*, ISSN: 1432-0541 (Online), DOI: 10.1007/s00453-005-1178-6, 30 September, 2005
- Cameron, C., Zalesky, A. and Zukerman, M., "Prioritized Deflection Routing in Optical Burst Switching Networks", *IEICE Transactions on Communications*, vol. E88-B, no. 5, pp. 1861-1867, May 2005
- Cameron, C., Vu, H. L., Choi, J. Y., Bilgrami, S., Zukerman, M. and Kang, M., "TCP over OBS - fixed-point load and loss," *Optics Express*, vol. 13, pp. 9167-9174, 2005
- Chae, C. J., Tran, A. V. and Tucker, R. S., "Bandwidth-efficient modular wavelength router for large-scale multi-hop virtual optical ring networks", *IEEE/OSA Journal of Lightwave Technology*, vol. 23, no. 3, pp. 1015-1022, March 2005
- Chen, W., Tucker, R. S., Yi, X., Shieh, W. and Evans, J., "Optical signal-to-noise ratio monitoring using uncorrelated beat noise," *IEEE Photonics Technology Letters*, vol. 17, issue 11, pp. 2484-2486, November 2005

- Dey, S. and Evans, J.S., "Optimal power control over multiple time-scale fading channels with service outage constraints", *IEEE Transactions on Communications*, vol. 53, no. 4, pp. 708-717, April 2005
- Gopalakrishnapillai, B. S., Premaratne, M., Nirmalathas, A. and Lim, C., "Power Equalization Using Polarization Rotation in Semiconductor Optical Amplifiers", vol.17, no.8, *IEEE Photonics Technology Letters*, August 2005
- Halgamuge, M. N., Vu, H. L., Kotagiri R. and Zukerman M., "Signal Based Evaluation of Handoff Algorithms", *IEEE Communications Letters*, vol. 9, no. 9, pp. 790-792, September 2005
- * Huang, M. and Dey, S., "Distributed State Estimation for Hidden Markov Models by sensor networks with Dynamic Quantization", *IEEE Transactions on Signal Processing*, August 2005
- Huang, Q. S., Chan, Li, P., Ko, K. T. and Zukerman, M., "A Hybrid ARQ Scheme Based on CT-TCM Codes", *IEEE Communications Letters*, vol. 9, no. 7, pp. 664-666, July 2005
- Jayasinghe, T. C., Chae, C. J. and Tucker, R. S., "Cost-effective re-broadcasting of broadband services over a passive optical network," *IEE Electronics Letters*, vol.21, no. 24, pp. 1342-1344, 2005
- Khanal, C., Chae, C. J. and Tucker, R. S., "Selective broadcasting of digital video signals over a WDM passive optical network", *IEEE Photonics Technology Letters*, vol.17, no. 9, pp. 1992-1994, 2005
- Krishnamurthy, V., Athaudage, C. R. N. and Huang, D., "Adaptive OFDM synchronization algorithms based on discrete stochastic approximation", *IEEE Transactions on Signal Processing*, vol.53, Issue 4, pp. 1561-1574, April 2005
- Machiraju, S., Veitch, D., Baccelli, F. and Bolot, J., "Theory and Practice of Cross-traffic Estimation via Probes", INRIA Technical Report no. RR-5763, 2005
- Maxemchuk, N., Ouveysi, I. and Zukerman, M., "A Quantitative Measure for Telecommunications Networks Topology Design", *IEEE/ACM Transactions on Networking*, vol. 13, no. 4, pp. 731-742, August 2005
- Neuts, M., Guo, J., Zukerman, M. and Vu, H. L., "The Waiting Time Distribution for a TDMA Model with a Finite Buffer and State-Dependent Service", *IEEE Transactions on Communications*, vol. 53, no. 9, pp.1522-1533, September 2005
- Papandriopoulos, J., Evans, J. S. and Dey, S., "Optimal power control for Rayleigh-faded multi-user systems with outage constraints", *IEEE Transactions on Wireless Communications*, vol. 4, no. 6, pp. 2705-2715, Nov. 2005
- Sansò, B., Vázquez-Abad, F. J. and Gutiérrez-Cabrera, E., "S-JET: efficient reservation scheduling algorithms for Optical Burst switches", *Journal of Optical Networks*, vol. 4, no.8, pp. 476-498, 2005
- * Tan, L., Yang, Y., Lin, C., Xiong, N. and Zukerman M., "Scalable Parameter Tuning for AVQ", *IEEE Communications Letters*, vol. 9, no. 1, pp. 90-92, January 2005
- * Tan, L., Yang, Y., Zhang, W. and Zukerman, M., "On Control Gain Selection in Dynamic-RED", *IEEE Communications Letters*, vol. 9, no. 1, pp. 81-83, January 2005

- * Tan, L., Yuan, C. and Zukerman, M., “FAST TCP: Fairness and Queuing Issues”, *IEEE Communications Letters*, vol. 9, no. 8, pp. 762-764, August 2005
- Tan, L., Wang, H. and Zukerman, M., “Adaptive Bandwidth Allocation for Metropolitan and Wide Area Network”, *IEEE Communications Letters*, vol. 9, no. 6, pp. 561-563, June 2005
- Tran, A. V., Chae, C. J. and Tucker, R. S., “EDFA transient control based on envelope detection for optical burst switched networks”, *IEEE Photonics Technology Letters*, vol. 17, no. 1, pp. 226-228, Jan. 2005
- Trichard, L., Evans, J. and Collings, I., “Optimal linear multistage multi-user receivers”, *IEEE Transactions on Wireless Communications*, vol. 4, no. 3, pp. 1092–1101, May 2005
- Tucker, R. S., Ku, P. C. and Chang-Hasnain, C. J., “Delay-bandwidth product and storage density in slow-light optical buffers”, *Electronics Letters*, vol.41, Issue 4, pp. 208 – 209, 17 Feb. 2005
- Tucker, R. S., Ku, P. C., Chang Hasnain, C. J., “Slow-Light Optical Buffers: Capabilities and Fundamental Limitations”, *Journal of Lightwave Technology*, vol. 23, issue 12, pp. 4046 – 4066, Dec. 2005
- Darryl Veitch, D., Hohn, N. and Abry, P., “Multifractality in TCP/IP Traffic: the Case Against”, *Computer Network Journal*, special issue “Long-Range Dependent Traffic”, vol. 48, pp. 293-313, June 2005
- Vázquez-Abad, F. J. and Zubieta, L., “Ghost simulation model for the optimisation of an urban subway system”, *Discrete Event Dynamic Systems: Theory and Applications*, vol. 15, no. 3, pp. 207-235, 2005
- * Vu, H. L., Zalesky, A., Wong, E. W. M., Rosberg, Z., Bilgrami, M.S., Zukerman, M. and Tucker, R.S., “Scalable Performance Evaluation of a Hybrid Optical Switch”, *IEEE/OSA Journal of Lightwave Technology*, vol. 23, no. 10, pp. 2961-2973, October 2005
- Wong, E.W.M. and Zukerman M., “Performance evaluation for an optical hybrid switch with circuit queued reservations”, *Optics Express*, vol. 13, pp. 9446-9459, 2005
- Zukerman, M., Tan, L., Wang, H. and Ouveysi, I., “Efficiency-Fairness Tradeoff in Telecommunications Networks”, *IEEE Communications Letters*, vol. 9, no. 7, pp. 643-645, July 2005

Conference Papers:

Al-Hammadi, Y. and Leckie C., "Anomaly Detection for Internet Worms", Proceedings of the Ninth IEEE International Symposium on Integrated Network Management (IM 2005), Nice, France, pp. 133-146, 15-19 May 2005

* Andrew, L.L.H., Hanly, S.V. and Mukhtar, R. G., "CLAMP: Active Queue Management at Wireless Access Points", Proc. IEEE European Wireless 2005, Cyprus, 2005.

Andrew, L. L. H., Atov, I., Kennedy, D. and Wydrowski., B. P., "Evaluation of FAST TCP in Low-speed DOCSIS-based Access Networks", Proceedings of IEEE Tencon, Melbourne, Australia, 2005

Angiras, R. R. V., Andrew, L. L. H., Athaudage, C. R. N. and Manton, J. H., "Iterative algorithms for channel identification using superimposed pilots", 6th Australian Communication Theory Workshop (AusCTW2005), University of Queensland, Brisbane, Australia, pp. 180-185, 2-4 February, 2005

Aquilina, M., Tran, A., Vu, H. L. and Farrell, P., "An Automatically Switched Optical Network Emulator", Australian Conference on Optical Fibre Technology ACOFT'2005, Sydney, Australia, June 2005

Athaudage, C.R.N. and Sathananthan, K., "Probability of error of space-time coded OFDM systems with frequency offset in frequency-selective Rayleigh fading channels", The IEEE International Conference on Communications (ICC'05), Seoul, Korea, vol.4, pp. 2593 – 2599, May 16-20, 2005

Athaudage, C. R. N. and Angiras, R. R. V., "Sensitivity of FFT-equalized zero-padded OFDM systems to time and frequency synchronization errors", The 16th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'05), Berlin, Germany, CR-ROM, 11-14 September, 2005

Athaudage, C. R. N. and Jayalath, A. D. S., "Blind estimation of residual timing error in OFDM systems: A non-data-aided maximum-likelihood approach", The 16th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'05), Berlin, Germany, CD-ROM, 11-14 September, 2005

Athaudage, C. R. N. and Sathananthan, K., "Cramer-Rao lower bound on frequency offset estimation error in OFDM systems with timing error feedback compensation", The 5th International Conference on Information, Communications & Signal Processing (ICICS'05) , Bangkok, Thailand, 6-9 December, 2005

* Attygalle M., Lim C., Bakaul M. and Nirmalathas A., "Extending Transmission Distance in Wavelength Reused Fiber-Radio Links with FBG Filters", Optical Fiber Communication Conference (OFC/NFOEC2005), Anaheim, USA, March, 2005

* Bakaul M., Nirmalathas A., Lim C., Novak D., and Waterhouse R., "Simplified Multiplexing Scheme for Wavelength-Interleaved DWDM Millimeter-Wave Fiber-Radio Systems", European Conference on Optical Communication (ECOC 2005), Glasgow, Scotland, September, 2005

* Bakaul M., Nirmalathas A., Lim C., Novak D., and Waterhouse R., "Simplified Multiplexing and Demultiplexing Scheme for Wavelength-Interleaved DWDM Millimeter-Wave Fiber-Radio Systems", International Topical Meeting on Microwave Photonics (MWP 2005), Seoul, South Korea, October, 2005

* Bakaul M., Nirmalathas A., Lim C., Novak D., and Waterhouse R., "Hybrid Multiplexing Towards the Integration of Millimeter-Wave Fiber-Radio Systems in DWDM Access Networks", IEEE Topical Meeting on Lasers and Electro-Optics Society (LEOS 2005), Sydney, Australia, October, 2005, [2nd prize winner in the best student paper award competition]

Chang-Hasnain, C. J., Ku, P. C. and Tucker, R. S., "Link performance of all-optical buffers using slow light", Optical Fiber Communication Conference, 2005, Technical Digest OFC/NFOEC, pp. 3, vol.3, 6-11 March 2005

Chen, W., Tucker, R. S., Yi, X., Shieh, W. and Evans, J., "Uncorrelated beat noise measurement for optical signal-to-noise ratio monitoring", Proceedings of the European Conference on Optical Communications, Glasgow, Scotland, September 2005

Das, G., Parthiban, R., Leckie, C. and Tucker, R. S., "Traffic Aggregation in Hybrid Ring-Star Optical Networks", Proceedings of the IEEE Tencon 2005, Melbourne, Australia, paper 2D-01.5, pp. 5, 21-24 November 2005

Evans, J. S., "MMSE estimators for cellular networks with cooperating base stations," Proceedings of the Australian Communications Theory Workshop, Brisbane, Australia, pp. 246–251, February 2005

Gopalakrishnapillai, B. S., Premaratne, M., Nirmalathas, A. and Lim, C., "Significance of the Possible Output Polarizer Placement Angles in a SOA based Power Equalizer", OECC/COIN'05, paper 7p-089, 2005

Gopalakrishnapillai, B. S., Premaratne, M., Nirmalathas, A. and Lim, C., "Impact of Phase Difference between Signal Components on a SOA based Power Equalizer", OECC/COIN'05, paper 7p-088, 2005

Gopalakrishnapillai, B. S., Premaratne, M., Nirmalathas, A. and Lim, C., "Analysis of Power Equalization Using Polarization Rotation in Semiconductor Optical Amplifiers Under Saturation", CLEO-PR'05, paper CTuJ4-5, 2005

Haga, P., Pasztor, A., Veitch, D. and Csabai, I., "PathSensor: Towards Efficient Available Bandwidth Measurement Simulation, Monitoring and Measurement (IPS-MoMe 2005)", 3rd International Workshop on Internet Performance, Warsaw, Poland, March 2005

Haitong Sun, Samra, H.; Zhi Ding, Manton, J., "Constrained Capacity of Linear Precoded ARQ in MIMO Wireless Systems", Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing, 2005, (ICASSP '05), vol.3, pp. 425–428, March 18-23, 2005

Halgamuge, M. N., Vu, H. L., Kotagiri, R. and Zukerman, M., "An Ideal Base Station Sequence for Pattern Recognition Based Handoff in Cellular Networks", Proceedings of the International Conference on Information and Automation, ICIA'05, Colombo, Sri Lanka, Dec. 2005

Hohn, N., Veitch, D. and Ye, T., "Splitting and Merging of Packet Traffic: Measurement and Modelling", IFIP Performance 2005, Juan les-Pins, France, vol. 62, no. 1-4, pp. 164-177, 3-7 October 2005

Huang, Q., Chan, S., Ping, L., Ko, K. T. and Zukerman, M., "A Novel TCM-based Hybrid ARQ For Efficient Bandwidth Utilization", Vehicular Technology Conference (VTC) Spring, Stockholm, 2005

- * Huang, M. and Dey, S., “Distributed State Estimation for Hidden Markov Models with Dynamic Quantization and Rate Allocation”, CD-ROM Proceedings of IFAC 2005, July 2005
- * Huang, M. and S. Dey, S., “Dynamic quantization for multi-sensor estimation over bandlimited fading channels with fusion centre feedback”, Proceedings of IFAC Workshop on System Identification, in press, August 2005
- Khanal, M., Chae, C. J. and Tucker, R. S., “Optimum operating conditions of a WDM passive optical network with selective video broadcasting capability through a single modulator”, IEEE LEOS 2005, paper TUG2, pp.220-221, Sydney, Australia, October, 2005
- Krishnamurthy, V., Athaudage, C. R. N. and Huang, D., “Adaptive OFDM synchronization algorithms based on discrete stochastic approximation”, IEEE Transactions on Signal Processing, vol.53, Issue 4, pp. 1561–1574, April 2005
- * Krongold, B., “Analysis of Cyclic-Prefix Correlation Statistics and their Use in OFDM Timing and Frequency Synchronization”, Proceedings of the 2006 Asilomar Conference on Signals, Systems, and Computers, Monterey, California, November 2005
- Leong, A. S., Evans, J. S. and Dey, S., “Power control and multiuser diversity in multiple access channels with two time scale fading”, Proceedings of the 3rd International Symposium on Modelling and Optimization in Mobile, Ad-Hoc and Wireless Networks, pp. 86-95, April 2005
- Liu, A., Pendock, G. J. and Tucker, R. S., “Chromatic Dispersion Monitoring Using Two Time-Multiplexed In-Band RF Tones”, Optical Fiber Communication Conference, 2005, Technical Digest OFC/NFOEC, pp. OThH6-1 -OThH6-3, March 2005
- Liu, A., Pendock, G.J., Tucker, R.S., “Chromatic Dispersion Monitoring for Systems Using Dual-Drive Mach-Zehnder Modulators”, IEEE Lasers and Electro-Optics Society, (LEOS), 18th Annual Meeting, 23-27, pp. 892 – 893, October 2005
- * Liu, M., Pendock, G. J., Evans, R., “Improved Spectral Monitoring for Fibre Optic Transmission Systems”, 30th Australian Conference on Optical Fibre Technology (ACOFT’05), Sydney, 2005
- * Li, Z., Nirmalathas A., Bakaul M., Cheng L., Wen Y. J., Lu C., “Application of Distributed Raman Amplifier for the Performance Improvement of WDM Millimeter-Wave Fiber-Radio Network”, IEEE Topical Meeting on Lasers and Electro-Optics Society (LEOS 2005), Sydney, Australia, October, 2005
- Low, S. H., Andrew, L. L. H. and Wydrowski, B. P., “Understanding XCP: equilibrium and fairness”, IEEE Infocom, Miami, FL, March 2005
- Machiraju, S., Veitch, D., Baccelli, F., Nucci, A. and Bolot, J., “Theory and Practice of Cross-Traffic Estimation”, ACM Sigmetrics 2005 Conference on the Measurement and Modeling of Computer Systems, Banff, Canada, 6-7 June, 2005
- Ng, B., Evans, J., Hanly, S. and Aktas, D., “Transmit beam forming with cooperative base stations”, Proceedings of the IEEE International Symposium on Information Theory, Adelaide, Australia, pp. 1431-1435, September 2005

Nguyen, Duc, Wang, J., Andrew, L. L. H. and Chan, S., "MaxNet: A More Efficient Max-min Fair Allocation Scheme", Proc. Intl. Teletraffic Congress-19, Beijing China, 2005

Parthiban, R., Tucker, R. S., Leckie, C., Zalesky, A. and Tran, A. V., "Does Optical Burst Switching have a role in the Core Network?", Proceedings of the IEEE Optical Fiber Communication Conference (OFC 2005), Anaheim, U.S.A., pp. 50-52, 6-11 March 2005

Prince, K., Krongold, B. and Dey, S., "Prediction-Based Resource Allocation for OFDM in Wireless Channels", Proceedings of the 2005 Australian Communications Theory Workshop, Brisbane, Australia, pp. 241-245, February 2005

Prince, K., Krongold, B. and Dey, S., "A Framework for Efficient Rate-Power Allocation for OFDM in a Composite-Fading Environment", Proceedings of the 2005 IEEE International Conference on Communications (ICC), Seoul, South Korea, pp. 2558-2562, May 2005

Prince, K., Krongold, B. and Dey, S., "OFDM Transmission Resource Optimization in HMM-fading Wireless Channels", Proceedings of the 2005 IASTED Conference on Communications Systems and Applications, Banff, Alberta, Canada, July 2005

Sakurai, T. and Hanly, S., "Modelling TCP flows over an 802.11 wireless LAN", Proceedings of the 11th European Wireless Conference, 2005, pp. 385-391

Sakurai, T. and Vu, H. L., "Access delay of the IEEE 802.11 MAC protocol under saturation", Proceedings of the 19th International Teletraffic Congress, 2005

Sathananthan K. and Athaudage, C. R. N., "Exact probability of error of ST-coded OFDM systems with frequency offset in flat Rayleigh fading channels", 6th Australian Communication Theory Workshop (AusCTW2005), University of Queensland, Brisbane, Australia, pp. 20-25, 2-4 February, 2005

Sathananthan, K. and Athaudage, C. R. N., "Low-complexity diversity enhanced OFDM for wireless communications", IEEE Region 10 International Technical Conference (TENCON'05), Melbourne, Australia, 21-24 November, 2005

Shieh, W., Xi, Y. and Tran A.V., "Label swapping for DPSK encoded labels without wavelength conversion", Optical Fiber Communication Conference - National Fiber Optic Engineers Conference OFC-NFOEC'2005, paper OTuC1, Anaheim, California, USA, Mar. 2005

Shu, F., Sakurai, T., Zukerman, M. and Shafi, M., "A joint PRMA and packet scheduling MAC protocol for multimedia wideband CDMA cellular networks", Proceedings of the 16th Annual IEEE International Symposium on Personal Indoor and Mobile Radio Communications, Berlin, Germany, 11-14 September, 2005

Ye, T., Veitch, D., Gianluca, I. and Supratik, B., "Divide and Conquer: {PC}-based Packet Trace Replay at {OC}-48 Speeds", Tridentcom, IEEE Computer Society, Trento, Italy, pp. 262-271, 23-25 February, 2005

Tan, L., Zhang, X., Andrew, L. L. H. and Zukerman, M., "Price-based Max-Min Fair Rate Allocation in Wireless Multi-hop Networks", Proceedings of Tencon 2005, Melbourne, Australia, 21-24 November, 2005

Thanabalasingham, T., Hanly S. V. and Andrew, L. L. H., "Joint Allocation of Transmit Power Levels and Degrees of Freedom to Links in a Wireless Network",

- Proceedings of the Australian Communications Theory Workshop (AusCTW), Brisbane, Australia, pp. 223-229, February, 2005
- Thomas, D. and Weng, J., "A note on Distance-based Geographic Location in Sensor Networks", Proceedings of International Symposium on Communications and Information Technologies, Beijing, IEEE Catalog Number: 05EX1224, pp. 681-684, October 2005
- Tran, A. V., Chae, C. J. and Tucker, R.S., "Optical packet power equalization with large dynamic range using controlled gain-clamped SOA", Optical Fiber Communication Conference - National Fiber Optic Engineers Conference OFC-NFOEC'2005, paper OME46, Anaheim, California, USA, March 2005
- Tran A. V. and Chae, C. J., "Economics and availability study of fiber-to-the-home architectures", The Fourth International Conference on Optical Internet (COIN'2005), paper SD1-05, Chongqing, China, May-June, 2005
- Tran, A. V., Chae, C. J. and Tucker, R. S., "Ethernet PON or WDM PON: a comparison of cost and reliability", IEEE Region 10 Conference (TENCON'2005), Melbourne, Australia, October, 2005
- Tran, A. V., Chae, C. J. and Tucker, R. S., "PON architecture providing local customer networking capability", IEEE Laser and Electro-Optics Society Annual Meeting LEOS'2005, paper TuG3, Sydney, Australia, Oct. 2005
- Tucker, R. S., Ku, P. C. and Chang-Hasnain, C. J., "Fundamental limitations of slow-light optical buffers", Optical Fiber Communication Conference, 2005, Technical Digest OFC/NFOEC, pp. 3, vol.3, 6-11 March 2005
- Tucker, R. S., "Photonics Down Under,(Plenary Address)" Lasers and Electro-Optics Society, 2005, IEEE Lasers and Electro-Optics Society, 18th Annual Meeting, pp. 26-27, 23-27 Oct. 2005
- Vázquez-Abad, F. J., "Efficient Concurrent Gradient Estimation for Network Optimization via Ersatz Estimators", Proceedings of the 43rd IEEE Conference on Decision and Control, Paradise Island, Bahamas, pp. 3744—3747, December 2004
- Veitch, D., "Sampling and Inversion", Sampling 2005, a workshop on sampling the Internet, Carré des Sciences, Paris, France, 28-29 July, 2005
- * Vu, H. L., Zalesky, A., Zukerman, M., Rosberg, Z., Guo, J. and Um, T. W., "Delay Analysis of Optical Burst Switching Networks", Proceedings of ICC 05, vol. 3, pp. 1656-1662, Seoul, Korea, May 2005
- Vu, H. L., Zalesky, A., Rosberg, Z. and Zukerman, M., "Models and approximations for bufferless optical networks, invited paper", 10th Opto-Electronic and Communications Conference, OECC, Seoul, Korea, July 2005
- Wong, E. W., Michael, M., Chiu, Y. M., Zukerman, M., Rosberg, Z., Chan, S., and Zalesky, A., "A Novel Method for Modeling and Analysis of Distributed Video on Demand Systems", Proceedings of ICC 05, vol. 1, pp.88-91, Seoul, Korea, May 2005
- *Krongold, B., Woo, G. and Jones, D., "Fast Active Constellation Extension for MIMO-OFDM PAR Reduction", Proceedings of the 2006 Asilomar Conference on Signals, Systems, and Computers, Monterey, California, November 2005

CUBIN Publications 2005

Yi, X., Chen, W. and Shieh, W., “Optical Signal-to-Noise Ratio Monitoring for Packet Switched Networks”, Proceedings of the 31st European Conference on Optical Communication (ECOC 2005), Glasgow, Scotland, September 2005

* Indicates that the publication was not funded by the Australian Research Council Special Research Centre grant to CUBIN