# Publication List – János Levendovszky

Dissertations:

1. J. Levendovszky: Intelligent communication algorithms, MTA Doktora, 2004

Book chapters:

1. J. Levendovszky**,** A. Olah,G. Treplan, L. Tran-Thanh, “Reliability-Based Routing Algorithms for Energy-Aware Communication in Wireless Sensor Networks,” *in Performance Models and Risk Management in Communications Systems, Springer Optimization and Its Applications*, Volume 46, 2011, pp. 93-126.
2. J Levendovszky, G Kiss,  L Tran-Thanh: Energy balancing by combinatorial optimization for wireless sensor networks. Performance Modelling and Analysis of Heterogeneous Networks.Aalborg: River Publishers, 2009., (ISBN: 978-87-92329-18-9)
3. Levendovszky, J. "Communication networks and services " (chapters: Signal Theory; Data Compression; Information Sources), On-line Book, Ed.by Gy. Lajtha , 2002
4. Levendovszky, J., Fancsali, A., Végső, Cs., Rétvári, G.: "QoS routing with incomplete information by analog computing algorithms*", Springer Verlag* , *Quality of Future Internet Services*, 2001
5. Levendovszky, J., Mommaerts, W. and van der Meulen, E.C.: "Neural networks with hysteresis type of nonlinearity exhibit global optimization property", *Lecture Notes in Computer Science, Vol. 540, Artificial Neural Networks*, ed. by Prieto, A., Springer-Verlag, 1991.

International Journal papers:

1. J. Levendovszky, G. Treplán, K. Tornai,: "Quadratic Programming forTDMA Scheduling in Wireless Sensor Networks"; *Journal of Distributed Sensor Networks,*  Paper 107062., 2011
2. J. Levendovszky, G. Kiss, G. Treplan,  L. Tran-Thanh Fading-aware Reliable and Energy Efficient Routing in Wireless Sensor Networks. COMPUTER COMMUNICATIONS 33:(1) pp. S102-S109. (2010)
3. J. Levendovszky, A. Olah L. Kovacs and Gergely Treplan: „Approximate Minimum Bit Error Rate Equalization for Fading Channels”, *EURASIP Journal on Advances in Signal Processing*, vol. 2010, Article ID 615623, 9 pages, doi:10.1155/2010/615623, 2010.
4. N. Fogarasi, K. Tornai, J. Levendovszky: "A Novel Hopeld Neural, Network Approach for Minimizing Total Weighted Tardiness of Jobs Scheduled on Identical Machines" Informatica Acta, 4 (1) 2012., pp. 48- 66
5. J. Levendovszky, L. Kovács and E.C. van der Meulen, "Minimum probability of error based equalization algorithms for fading channels", *EURASIP Journal on Wireless Communications and Networking*, Vol. 2007., Part I, pp. 1-12, 2007.
6. J. Levendovszky, L. Kovacs and E.C. van der Meulen, "A novel blind channel equalization algorithm minimizing the peak distortion in ds-cdma systems" *WSEAS Trans. Comm*., Vol. 6, pp. 289-294, February 2007.
7. J. Levendovszky, B.Hegyi: “Enhancing the Performance of Medical Implant, Communication Systems through Cooperative Diversity,” *International Journal of Telemedicine and Applications*, 2010, Article ID 920704,
8. J. Levendovszky, B. Hegyi:: “Energy balancing cooperative diversity for wireless sensor networks,” *International Journal of Communication Networks and Distributed Systems*, vol. 1, 2008, pp. 524–543.
9. J. Levendovszky, B. Hegyi: “Optimal statistical energy balancing protocols for wireless sensor networks,” *WSEAS Transactions on Communications,* vol. 6, 2007, pp. 689–694.
10. J. Levendovszky, Cs. Orosz: Generalized Statistical Bandwidth for Optimal Resource Management”, WSEAS *Transactions on Communications* 5:(10) pp. 1863-1868. (2006)
11. J. Levendovszky, A. Olah: „Statistical Sampling Based Equalization Algorithms for Fading Channels and Multiuser Detection” , WSEAS *Transactions on Communications*, 5:(5) pp. 656-664. (2006)
12. J. Levendovszky, L. Kovács, A. Oláh, and D. Varga, "A new blind signal processing algorithm for decorrelation and multiuser detection", *Journal on Communication* , vol.57, pp. 15-20, 2002/12.
13. J. Levendovszky, A. Fancsali: „Real-time Call Admission Control for Packet-switched Networking by Cellular Neural Networks*”. IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-* Regular Papers 51:(6) pp. 1172-1183. (2004)
14. Jeney, G., Levendovszky, J., Pap, L., van der Meulen, E.C.: "Adaptive near optimal multi-user detection using a stochastic and hysteretic Hopfield net receiver", *Eurasip Journal on Applied Signal Processing, Volume 2002,* Special Issue on Multi-user Detection and Blind Signal Processing, No.12, 2002
15. Levendovszky, J., Jereb, L., Elek, Zs., Vesztergombi, Gy.: "Adaptive statistical algorithms in network reliability analysis", *Performance Evaluation - Elsevier*, Vol. 48, 2002, pp. 225-236
16. Levendovszky, J. van der Meulen, E.C., Zs. Elek: “Nonparametric detection by feedforward neural networks”, *Neural Network World*, Vol. 6., pp.929-957, 2000.
17. Levendovszky J., Vegso Cs., van der Meulen, E.C.: “Nonparametric decision algorithms for CAC in ATM networks”, *Performance Evaluation - Elsevier*, Vol. 41., pp. 133-147, 2000.
18. Bernhofen, L.T., Dudewicz, E.J., Levendovszky, J. and van der Meulen, E.C.: "Ranking of the Best Random Number Generators via Entropy-Uniformity Theory", *American Journal of Mathematical and Management Sciences*, Vol 16, pp. 49-88, 1998*.*
19. Levendovszky, J., Blazer, J., Haris., R: “Intelligent Data Acquistion”, *Circuit Cellar Ink*, Vol. 87, pp.39-43, October 1997
20. Levendovszky, J., Imre, S., van der Meulen, E.C., Pap, L., and Varga, B.: “Call admission control of ATM networks based on modulated Markov chains*”, Journal on Communication dedicated to ATM Networks*, VOL. XLVII, pp. 19-24, March 1995
21. Levendovszky, J., Mommaerts W. and van der Meulen, E.C.: "Limit on the Efficiency of Sparsely Encoded Associative Memories", *Journal on Communications*, May 1993, XLIV.pp.18/21
22. Levendovszky, J., Mommaerts, W. and van der Meulen, E.C.: "Hysteretic Neural Networks for global optimization of quadratic forms", *Neural Network World*, 1992, Vol. 2, No. 5, pp. 475-496.
23. Levendovszky, J.: “Novel optimization techniques by neural networks”, *Periodica Polytechnica,* Ser. Electrical Engineering, Vol. 42, No 1. pp. 103-114, 1999.

Conference publications

1. J. Levendovszky, E. Laszlo, K. Tornai, and G. Treplan, "Optimal pricing based resource management" in International Conference on Operations Research, Munich 2010, September 2010, pp. 169.
2. J. Levendovszky, E. László, K. Tornai, G. Treplan: "Novel load balancing scheduling algorithms for Wireless Sensor Networks"; The Fourth International Conference on Communication Theory, Reliability, and Quality of Service, CTRQ 2011 April 17-22, pp. 54-59, 2011
3. J. Levendovszky, A. Olah, K. Tornai, G. Treplan, "Novel load balancing algorithms ensuring uniform packet loss probabilities for WSN"; 2011 IEEE 73rd Vehicular Technology Conference Budapest, May 15-18, 2011. (ISBN:978-1-4244-8329-7)
4. J. Levendovszky, G. Kiss, S. Molnár S,  L. Tran-Thanh: „Delay characteristics and server update optimization of multiplayer gaming in mobile environment.”, 2010 IEEE International Conference on Communications, ICC 2010. Cape Town, South Africa, 2010.05.23-2010.05.27. pp. 1-6. Paper 5502623. (ISBN: 978-142446404-3)
5. J. Levendovszky, L. Tran-Thanh: „Optimal Time Dependent Data Collection Schemes in Wireless Sensor Networks.” Wireless Communications & Networking Conference : WCNC 2010. Melbourne, Ausztrália, 2010. pp. 1-6.
6. J. Levendovszky, L. Long Tran-Thanh : „A novel reliability based routing protocol for power aware communications in Wireless Sensor Networks”., Proceedings of the IEEE Wireless Communications & Networking Conference: WCNC 2009. Budapest, 2009.04.05-2009.04.08. Budapest: 6 p. Paper NET 13.3.
7. J. Levendovszky , G. Treplan,  L. Tran-Thanh , A. Olah: „ Reliable and energy aware routing protocols for WSN”, Proceedings of the 17th International Conference on Software, Telecommunications and Computer Networks - SoftCOM 2009. Hvar, Croatia, 2009.09.24-2009.09.26. pp. 171-175.(ISBN: 978-1-4244-4973-6)
8. J. Levendovszky, B. Hegyi “Efficient, distributed, multiple-relay selection procedures for cooperative communications,” in Proc. International Symposium on Wireless Pervasive Computing 2008, Santorini, Greece, May 7-9 2008, pp. 170–174.
9. J. Levendovszky, A. Olah, A. Bojarszky : „New methods for reliable packet transfer and energy balancing in wireless sensor networks”, 3rd International Symposium on Wireless Pervasive Computing: ISWPC 2008. Santorini Island, Görögország, 2008.05.07-2008.05.09. pp. 180-184.
10. J Levendovszky, M Molnar, P Legesdruon, CS Végső: „QoS routing with uncertain link state information” International Network Optimization Conference: INOC 2007. Spa, Belgium, 2007.04.22-2007.04.25
11. J. Levendovszky A. Olah: „Energy balancing by combinatorial optimization for wireless sensor networks.” Proceedings of International Workshop on Dynamic Networking. Rennes, Franciaország, 2007.09.04.
12. J Levendovszky, S Molnár, Z Kenesi, G Kiss: „Optimizing multiplayer gaming protocols for heterogeneous network environment.” IEEE ICC. Glasgow, Egyesült Királyság, 2007.06.24-2007.06.28. pp. 1606-1611
13. J Levendovszky: Designing optimal link scaling for routing with incomplete information in packet switched networks, Procceedings of Workshop on Networking, Imperial College. London, Egyesült Királyság, 2006.01.
14. J Levendovszky, A Olah: Energy balancing by combinatorial optimization for wireless sensor networks, Proceedings of 6th International Workshop on Rare Event Simulation: RESIM 2006. Bamberg, Németország, 2006.10.09.
15. J Levendovszky, A Olah: Novel adaptive channel equalization algorithms by statistical sampling, Proceedings of Enformatica Society Conference. Budapest, Magyarország, 2006.05. pp. 18-25. (World Academy of Science, Engineering and Technology; 13.)
16. J Levendovszky: „Novel statistical methods in network reliability analysis”. Proceedings of 6th International Workshop on Rare Event Simulation: RESIM 2006. Bamberg, Németország, 2006.10.09.
17. J. Levendovszky, Cs. Orosz, A Olah, E C van der Meulen: „Optimal energy balancing protocols in wireless sensor networks”, 27th Symposium on Information Theory in the Benelux. Noordwijk, Hollandia, 2006.06.08.
18. J Levendovszky, I Koncz, P Boros: Optimization of communication protocols by stochastic delay mechanisms. In: Ardil C (szerk.) Conference of the World-Academy-of-Science-Engineering-and-Technology. Budapest, Magyarország, 2006.05.26-2006.05.28. pp. 12-17.
19. J Levendovszky, P Boros, E C van der Meulen: „Achieving higher reactive handover performance in mobile networks”, 26th Symposium on Information Theory of the Benelux. Brüsszel, Belgium, 2005.05.19-2005.05.20.

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|  | 1. J. Levendovszky J, Cs. Orosz „Developing Novel Statistical Bandwidths for Communication Networks With Incomplete Information”, 4th International Workshop on Experimental and Efficient Algorithms: WEA 2005. Santorini Island, Görögország, 2005.05.10-2005.05.1
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1. J. Levendovszky, T. David, I. Koncz: „Optimal stochastic timers for feedback mechanisms in multicast communications”, ICRC. Dallas, Amerikai Egyesült Államok, 2004.06.
2. J. Levendovszky, A. Oláh, D. Varga, E.C. van der Meulen: „Novel CNN based detection for increased spectral efficiency”, 8th IEEE International Biannual Workshop on Cellular Neural Networks and their Applications: IEEE CNNA 2004. Budapest, Magyarország, 2004.07.22-2004.07.24. pp. 483-486.
3. J. Levendovszky, Cs. Orosz: „Generalization the concept of statistical bandwidth to the case of unknown traffic descriptors”, ICRC. Dallas, Amerikai Egyesült Államok, 2004.06.
4. J. Levendovszky, A. Molnar, P. Boros, E.C. van der Meulen: „Designing optimal link scaling for routing with incomplete information in packet switched networks”, 25th Symposium on Information and Communication Theory in the Benelux. Kerkgrade, Hollandia, 2004.06.02-2004.06.04. pp. 233-239.
5. J. Levendovszky, A. Oláh, D. Varga, E.C. van der Meulen: „CNN based multiuser detection and equalization in wireless communication systems”, 25th Symposium on Information and Communication Theory in the Benelux. Kerkgrade, Hollandia, 2004.06.02-2004.06.04. pp. 241-248.
6. J. Levendovszky, L. Kovács, A. Olah, D. Varga and E.C. van der Meulen "Novel sampling methodes for increased spectral efficiency in wireless communication systems", in Proc. of the 24th Symposium on Information Theory and Communication Theory in the Benelux, May 22-24, 2003, Veldhoven, The Netherlands;  pp. 235-242.
7. J. Levendovszky, L. Kovács and G. Jeney, "Novel adaptive signal processing algorithms for multiuser detection", in Proc. of 4th EURASIP-IEEE Region8 Symposium on Video Processing and Multimedia Communications, pp. 361-365, 16-19 June 2002.
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9. Levendovszky J., Kovacs, L. van der Meulen, E.C.: "A new blind signal processing algorithm for multiuser communuication", *23th Symposium on Information and Communication Theory in the Benelux*, Lovain-la-Neuve, the Netherlands, May, 2002,
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11. Levendovszky, J., Rétvári, G., Dávid, T., Fancsali, A., Végső, Cs.: "QoS routing in packet switched networks - novel algorithms for routing with incomplete information", *9th IFIP conference on Performance Modeling and Evaluation of ATM and IP Networks*, Budapest, June, 2001,
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14. Levendovszky, J., Fancsali, A., Végső, Cs., van der Meulen, E.C.: "CNN based algorithms for QoS routing with incomplete information", *22th Symposium on Information and Communication Theory in the Benelux*, Enschede, the Netherlands, May, 2001, pp. 45-52
15. Levendovszky, J. Elek, Zs.: "Nonparemetric Bayesian Estimation by Feedforward Neural Networks", *Proceedings of Polish - Czech - Hungarian Workshop*, *Signal Processing and Telecommunication Networks,* Budapest, September, 2001
16. Levendovszky, J. Kovacs,L.: "Nonsupervised learning algorithms for multiuser detection", *Proceedings of Polish - Czech - Hungarian Workshop*, *Signal Processing and Telecommunication Networks,* Budapest, September, 2001
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19. Levendovszky, J., Végső Cs.: "QoS routing with incomplete informationb using large deviation approach", *Proceedings of Polish - Czech - Hungarian Workshop*, *Signal Processing and Telecommunication Networks,* Budapest, September, 2001
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24. G. Jeney, J. Levendovszky, S. Imre, L. Pap, "Comparison of Different Neural Network Based Multi-user Detectors", Accepted to EUNICE 2000, Enschede
25. Jereb, L. LevendovszkyJ.: "Statistical methods in network reliability analysis*", 6th IFIP Workshop on Performance Evaluation*, Ilkley, UK, July, 2000,
26. Levendovszky, J. Elek, Zs, Végső , Cs.: "Integrated neural call admission control for cell loss probability and mean cell delay", *6th IFIP Workshop on Performance Evaluation*, Ilkley, UK, July, 2000,
27. KissA., LevendovszkyJ.,Jereb, L: "Stratified Sampling Based Network Reliability Analysis"**,** *Confenrence on Telecommunication Systems*, Nashville, TN., US, March, 2000
28. Jeney, G., Levendovszky, J.: "Stochastic Hopfield network for multiuser detection" European *Conference on Wireless Technology,* Paris, 2000, pp. 147-150
29. Levendovszky, J., Elek, Zs., Végső, Cs.: "Validation of novel CAC algorithms”, *ICAM- IEEE 1999*, pp. 195-211
30. Levendovszky, J., Mészáros, Á.: “Neuron based penalty function classifiers”, *19th WIC Conference*, Veldhoven, Holland, May, 1998
31. Levendovszky, J., Elek, Zs., van der Meulen, E.C.: “CAC based queuing models in ATM”, *19th WIC Conference*, Veldhoven, Holland, May, 1998
32. Levendovszky, J., and van der Meulen, E.C.: “Nonparametric Bayesian Estimation by Feedforward Neural Networks”, *Prague Stochactics*, Prague, Czech Republic, August 1998
33. Levendovszky J., Vegso Cs., van der Meulen, E.C.: “Nonparametric decision algorithms for CAC in ATM networks”, *Participants Proceedings of 6th IFIP Workshop and Performance Evaluation and Modelling of ATM Networks*, Ilkley, West Yorkshire, UK, July 1998
34. Levendovszky, J, van der Meulen, E.C.,: "Novel statistical estimation procedures for call admission control and performance analysis by the simulation package ATMSTAT ", *Participants Proceedings of 5th IFIP Workshop on Performance Modelling of ATM Networks*, Ilkley, UK, July 21-23, 1997, pp.66/1-66/9.
35. Levendovszky, J., Imre, S., van der Meulen, E.C., and Varga, B. : "Call Admission Control for ATM Networks by Source Distribution Tarnsformation", *Participants Proceedings of 4th IFIP Workshop on Performance Modelling of ATM Networks*, Ilkley, UK, July 9-12, 1996, pp.17/1-17/12.
36. Levendovszky, J., van der Meulen, E.C., and Pozsgai, P.: "Tail Estimation by Statistical Bounds and Neural Networks", *Proceedings of 17th Benelux Symposium on Information Theory*, Enschede, The Netherlands, May 30-31, 1996, pp. 137-145.
37. J. Levendovszky, E. C. van der Meulen, and P. Pozsgai, "Tail estimation by neural networks." Participants Proceedings of 4th IFIP Workshop on Performance Modeling of ATM Networks, Ilkley, UK, Jul. 1996.
38. Levendovszky, J., Imre, S., van der Meulen, E.C., Pap, L., Pozsgai, P. and Varga, B.: "Tail distribution estimation for call admission in ATM networks*", Participants Proceedings of 3th IFIP Workshop and Performance Evaluation and Modelling of ATM Networks*, Ilkley, West Yorkshire, UK, July 1995.
39. Levendovszky, J.: "General tolerance analysis for neural networks", *Proceedings of 15th Benelux Symposium on Information Theory*, Louvain-la-Neuve, Belgium, May 30-31, 1994.
40. Levendovszky, J., Mommaerts W. and van der Meulen, E.C.: "Estimation of Linearly Mixed and Noisy Signals by Convolutional Neurons whose Weights are learned by Stochastic Approximation", *Proceedings XXVe Journees de Statistique*, Vannes, France, May 1993, pp. 66-74.
41. Levendovszky, J.: "Convergence properties of the Hopfield net in the case of general nonlinearities", *Proceedings Neuro-Nimes'90 Neural Networks and their Applications,* Nimes, France, 1990, pp.341-350.

A szerző által (vagy közreműködésével) összeállított nyertes nemzetközi "project proposal"-ok

1. "Research on ATM: Call Admission control and Network Policing by neural networks", Eropean Union, Copernicsu action, COP576, 200,000 Euro
2. "Condition-Based Maintenance: Machinery Diagnostics and Prognostics", Office of Naval Research, US Navy, ONR342, (under the coordination of W. Nickerson, Penn State University, csak a diagnosztikai algoritmusokkal foglalkozó rész), $6,822,000
3. “Wireless Intelligent Data Acquisition Node (IDAN)” projektben, Ben Franklin Partnership Program, Ben Franklin Technology Center of Central Pennsylvania, USA (Projekt szám: 96C1130R, költségvetés $50,000, csak akommunikációs protokollok területén),
4. MEFISTO-666 ("adaptive methods in modern communication technologiesFelimish Government, Belgium, GOA 98/06, költségvetés: 7,000,000 Euro, csak a neurális alapú útvonalkereső és multi-user detekció témakörében)

A szerző által összeállított nyertes hazai pályázatok

1. "Hierarchikus jelfeldolgozás állapotfüggő karbantartás céljaira" cimű OTKA projekt (Projekt szám: T025964, költségvetés: 5,000,000 Ft)
2. "Távközlő hálózatok méretezése ésteljesítmény-elemzése" TÉT együttműködés a BME és a Rennes-i egyetem között (Projekt szám: F:9-9/99, költségvetés- 2,000,000 Ft),
3. “Hatékony neurális hálózatok kutatása hírközlési alkalmazásokra” c. OTKA projekt (Projekt szám: F014456 költségvetés 1,500,000 Ft)

A szerzőtől megrendelt tanulmányok:

1. "Spectral efficiency" (megrendelő: Deutsche Telekom, T-Nova, edited by Levendovszky, J. , authors are Csibi, S., Gyorfi, L., Levendovszky J., Pap, L., Vajda, I., 50,000 Euro)
2. "Congestion control algorithms in a station-on-a-chipset" (megrendelő:Korean Electronic Technology Institute, edited by Levendovszky, J. , authors are Boros, P., Levendovszky, J., Molnar, A.30,000 Euro)
3. "On-line translation and language processing", (megrendelő: Deutsche Telekom, T-Systems, RIC, edited by Levendovszky, J. , authors are David, T., Elek, Zs., Levendovszky, J., 30,000 Euro)
4. "Biossensors, tele-diganostics and autentication" (megrendelő: Deutsche Telekom, T-Systems, RIC, edited by Levendovszky, J. , authors are Füzesi P., ,Levendovszky, J., Olah, A., Varga, D., 20,000 Euro)

Tudományos és technikai jelentések:

1. Levendovszky, J., Végső, Cs.: "Congestion and Admission Control, transport protocols and routing", *EURESCOM Report, P-1112*, 2002.
2. Levendovszky, J., Leguesdron, P., Molnár, M., Végső, Cs.: "Two heuristic search algorithms for the network Steiner problem", RDR, INRIA, 2001.
3. Levendovszky, J., Végső Cs.: "Congestion and Admission Control, transport protocols and routing", *EURESCOM Report, P-1112*, 2001
4. Levendovszky, J., Fancsali, A.: "Applications of CNNs in modern communication technologies", *Technical Report, MTA-SZTAKI, Analogical and Neural Computing Laboratory, DNS-7-2000*
5. Levendovszky, J., Végső, Cs.: "Final report on COP579", *COP579,* 2000
6. Levendovszky J., Elek Zs., Végső, Cs.: " Validation of novel CAC algorithms on Expert Testbed, Basel, Switzerland*", COP579 TPR 2 -EU*, 1998
7. Levendovszky J., Elek Zs., Végső, Cs., Mészáros A.: " Validation of novel CAC algorithms by real measurements at Ericsson Traffic Laboratory*", COP579 TPR 1 -EU*, 1998
8. Levendovszky, J., Imre, S.: “Novel call admission control algorithms for ATM”, *COP579 SPR3-EU*, 1996
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10. J. Levendovszky and B. Varga, "On the on/off approximation of the aggregate traffic for cac." COP579-SPR-2, EU, 1997.
11. Levendovszky, J.: "A New Approach for the Synthesis of Logical Functions by usingBoltzmann machines*", Technical Report, Department of Mathematics, Katholieke Universiteit Leuven*, 1991
12. Levendovszky, J.: "The Application of the Neural Networks in Communication Systems as Adaptive Equalizers", *Technical Report at Oxford University*, 1989.