

Prof. Nikolas Mitrou's PUBLICATIONS – CITATIONS

D. Dissertations - theses

- D1. N. Mitrou, *Analysis of the Symmetrical Modes for an Eccentrically Cladded Fiber*, Diploma Thesis, 1980 (in Greek: N.Μήτρου, "Μελέτη Εκκεντρών Διηλεκτρικών Κυματοδηγών Τριών Στρώσεων. Κυματαριθμοί αποκοπής Περιβλημένης Ινας (cladded fiber)", Διπλωματική εργασία, ΕΜΠ, Αθήνα 1980).
- D2. N.Mitrou, "Forgetting Factors in Parameter Estimation", Dissertation for the degree of MSc, Control Systems Centre, UMIST, Manchester 1982.
- D3. N. Mitrou, *Reducing complexity in spatial and temporal signal processing systems*, PhD Thesis, 1986 (in Greek: N.Μήτρου, "Μείωση Πολυπλοκότητας σε Συστήματα Επεξεργασίας Χωρικών και Χρονικών Σημάτων" Διδακτορική Διατριβή, Τμήμα Ηλεκτρολόγων ΕΜΠ, Αθήνα 1986).

B. Books – Monographs

- B1. **Mitrou N.**, Kontovasilis K., Rouskas G., Iliadis I. (Editors), *Networking Technologies, Services and Protocols; Performance of Computer and Communication Networks; Mobile and Wireless Communications*, Springer 2004.
- B2. **N Mitrou**, *Digital Communications: Concise Theory and Lab Exercises on Digital Modulation*, Lecture Notes, NTUA 2008 (in Greek).

J. Publications in international Journals and book chapters

- J1. **N. Metrou**, J. Kanellopoulos, J. Roumeliotis, J. Fikioris, "Analysis of the Symmetrical Modes for an Eccentrically Cladded Fiber", *IEEE Trans. on Microwave Theory and Techniques*, Vol. MTT-30, No 3, March 1982, pp 217-220.
- J2. **N. Mitrou**, "Results on Nonrecursive Digital Filters with Nonequidistant Taps", *IEEE Trans. Acoust. Speech. Signal Processing*, Vol. ASSP-33, No. 6, Dec. 1985, pp 1621-1624.
- **N. Mitrou**, Correction to "Results on Nonrecursive Digital Filters with Nonequidistant Taps" *IEEE Trans. Acoustics, Speech and Signal Processing*, Vol. ASSP-34, Number 5, p. 1336, 1986
- J3. **N.Mitrou**, G.I.Stassinopoulos, E.N.Protonotarios, "Design of Multistage Separable Two-Dimensional Digital Filters with Frequency Domain Specifications", *Signal Processing*, Vol 12, No 2, March 1987, pp 191-210.

- J4. **N.Mitrou**, G.I.Stassinopoulos and E.N.Protonotarios, "Frequency-Domain Separable Decomposition of 2-Dimensional Systems", *Parallel Processing Techniques for Simulation*, (M.G.Singh, A.Y.Allidina and B.K.Daniels, Editors) Plenum Press 1986.
- J5. **N. Mitrou**, Th. Orinos and E.N. Protonotarios, "A Reservation Multiple Access Protocol for Microcellular Mobile-Communication Systems", *IEEE Trans. on Vehicular Technology*, Vol 39, No 4, Nov. 1990, pp 340-351.
- J6. **M.Mitrou**, D.E.Pendarakis "Cell-Level Statistical Multiplexing in ATM Networks: Analysis, Dimensioning and Call-Acceptance Control w.r.t. QOS Criteria", in *Queueing, Performance and Control in ATM* (ISBN: 0 444 89114 5), J.W.Cohen, C.D.Pack, Editors, North Holland, 1991
- J7. **N. Mitrou**, G. Lyberopoulos and A. Panagopoulou, "Voice and Data Integration in the Air Interface of a Microcellular Mobile Communication System," *IEEE Trans. on Vehicular Technology*, Vol 42, No 1, Feb. 1993, pp 1-13. .
- J8. K.P. Kontovasilis and **N.M. Mitrou**, "Bursty Traffic Modeling and Efficient Analysis Algorithms via Fluid-Flow Models for ATM IBCN," *Annals of Operations Research*, special issue on Methodologies for Performance Analysis of High Speed Networks, Vol. 49 (1994).
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- J10. **N. Mitrou**, K. Kontovasilis, H. Kroner and V. Iversen, "Statistical Multiplexing, Bandwidth Allocation Strategies and Connection Admission Control in ATM Networks," *European Transactions on Telecommunications*, Vol. 5, No. 2, Mar.-Apr. 1994, pp. 161-175.
- J11. K. Kontovasilis and **N. Mitrou**, "Stochastic Fluid Models for a Buffer Loaded by Markov Modulated Traffic with Near Complete Decomposability Characteristics, in *High Speed Networks and their Performance* (ISBN: 0 444 81721 2), H.G. Perros and Y. Viniotis, Editors, (IFIP C-21), North-Holland, 1994, pp. 363-397.
- J12. **N.M. Mitrou**, S. Vamvakos, K. Kontovasilis, "Modelling, Parameter Assessment and Multiplexing Analysis of Bursty Sources with Hyper-exponentially Distributed Bursts," *Computer Networks and ISDN Systems*, Vol. 27 (1995), pp. 1175-1192.
- J13. **N. Mitrou**, K. Kontovasilis and V. Nellas, "Bursty Traffic Modelling and Multiplexing Performance Analysis in ATM Networks: A Three-moment Approach", in *Performance Modelling and Evaluation of ATM Networks*, (D. Kouvatsos, Editor), Vol. 1, pp 32-54 , Chapman & Hall, London, 1995 IFIP.
- J14. K. Kontovasilis and **N. Mitrou**, "Markov Modulated Traffic with Near Complete Decomposability Characteristics and Associated Fluid Queueing Models, *Applied Probability Journal*, Vol. 27, No. 4, pp. 1144-1185, Dec. 1995.
- J15. **N. Mitrou**, K.P. Kontovasilis and E.N. Protonotarios, "ATM Traffic Engineering for ABR Service Provisioning", *Telecommunication Systems*, 5(1996) pp. 135-157

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- J18. N. **Mitrou**, K. Kontovasilis, N. Lykouropoulos and V. Nellas, "Experimental Validation of Selected Results on ATM Statistical Multiplexing in the EXPLOIT Project", *European Transactions on Telecommunications*, Special Issue on *ATM Field Trials and Experiments*, Vol. 7, No.5, Sept./Oct. 1996, pp. 423-432.
- J19. K. Kontovasilis and N. **Mitrou**, "Effective Bandwidths for a Class of Non Markovian Fluid Sources", *Computer Communications Review*, 27(4):263-274, 1997.
- J20. N. **Mitrou** and K. Kavidopoulos, "Traffic Engineering using a class of *M/G/1* models", *Journal of Network and Computer Applications (AP)*, Vol. 21, pp. 239-271, 1998.
- J21. N. **Mitrou**, "Shaping of Traffic Streams through Data Spacing," *IEEE Communications Letters*, Vol. 3, No. 10, October 1999.
- J22. St. Hondas, A. Evangelatos, D. Vasileiou and N. **Mitrou**, "A flexible and cost-effective ATM Traffic Generator," in *ATM Networks: Performance, Modelling and Analysis*, IFIP Vol. 4, D. Kouvatsos (Ed.), Kluwer USA, 1999
- J23. Evangelatos, Th. Rapsomanikis, N. **Mitrou**, and G. Stassinopoulos, "A burst-level traffic analysis tool", *Computer Networks: The International Journal of Computer and Telecommunications Networking*, 34(1): 3-22, 2000
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- J25. E. Vayias, J. Soldatos, N. **Mitrou**, "An Approach to Network Control and Resource Management Based on Intelligent Agents", *IS&N, Lecture Notes in Computer Science*, Vol. 1774, pp. 191-207, Springer, 2000
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- J28. A. Michalas, V. Zoi, N. Sotiropoulos, N. **Mitrou**, V. Loumos, E. Kayiafas, "A comparison of multimedia application development platforms towards the object web", *Journal of Computer Standards and Interfaces*", Vol. 22, No. 1, 2000

- J29. K. Kontovasilis, G. Kormentzas, E. Vayias, J. Soldatos, **M. Mitrou**, “A framework for designing ATM management systems by way of abstract information models and distributed object architectures”, *Computer Communications*, Vol. 24, Number 7-8, pp. 641-653, 2001.
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- J34. V. Tountopoulos, A.D. Sotiriou, N. Koutsouris, E. Solidakis, P. Kalliaras, V. Stavroulaki, D. Kouis, **N. Mitrou**, “Supporting wireless applications over a distributed, agent-based management system”, *WSEAS Transactions on Communications*, Vol. 3, Issue 2, April 2004, pp 545-550.
- J35. S. Zoi, D. Loukatos, P. Papageorgiou, P. Stathopoulos, **N. Mitrou**, “Extending an Open Media-Streaming Platform to Support Differentiated Services”, *Journal of Internet Technology*, No 5, Vol 4, 2004.
- J36. J.Soldatos, E.Vayias, P.Stathopoulos and **N.Mitrou**, “Enforcing Effective Rates for Packet-Level QoS Control in IP Networks”, *Telecommunication Systems*, pages 9-32, Volume 27,No. 1, September 2004.
- J37. D. Loukatos, L. Sarakis, K. Kontovasilis, N. Mitrou, “An Efficient ATM Traffic Generator for the Real-Time Production of a Large Class of Complex Traffic Profiles”, *Journal of Communications and Networks (JCN)*, vol. 7, no. 1, pp. 54-64. 2005.
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- J41. N. Konstantinou, D.-E. Spanos, and **N. Mitrou**. Ontology and Database Mapping: A Survey of Current Implementations and Future Directions. *Journal of Web Engineering*, 7(1):1–24, March 2008.

- J42. A-D Sotiriou, P. Kalliaras, **N. Mitrou**, "Communication Networks Flexible routing in a distributed K -ary tree : the K -Umbrella", *European Transactions on Telecommunications*, Vol. 20, No 2, , pp. 139-157, 2009.
- J43. N. Konstantinou, E. Solidakis, A. Zafeiropoulos, P. Stathopoulos, **N. Mitrou**: A Context-aware Middleware for Real-Time Semantic Enrichment of Distributed Multimedia Metadata, In *International Journal of Multimedia Tools and Applications*, vol 46, issue 2, pp. 425-461, 2010 (special issue on Data Semantics for Multimedia Systems) Springer USA, (doi:10.1007/s11042-009-0361-1)
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- J48. St. Arkoulis, D. Spanos, S. Barbounakis, A. Zafeiropoulos and **N. Mitrou**, "Cognitive radio-aided wireless sensor networks for emergency response", *Measurement Science and Technology*, Vol. 21, No. 12, 2010
- J49. Giannoulakis, K. Kontovasilis and **N. Mitrou**, "Sojourn time distributions and time scale separation results for multiclass state-dependent processor sharing systems with a finite service pool and exponential service requirements", *Performance Evaluation*, Elsevier, Vol. 68, No. 7, pp. 586-613, 2011
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C. Publications in Conferences (with peer review)

- C1. **N.M.Mitrou**, J.D.Kanellopoulos, J.A.Roumeliotis and J.G.Fikioris, "Cut-Off Wavenumbers of the Symmetrical Modes for an Eccentric Cladded, Three-Layer, Dielectric Waveguide," *IEEE ABS Intern. Symp.*, Los Angeles CA, 16-17 June 1981, Vol 2, pp. 516-519.
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- C3. **N.M.Mitrou**, "Cell-Level Statistical Multiplexing in ATM Networks: Analysis, Dimensioning and Call-Acceptance Control w.r.t. QOS Criteria Part I: Approximate Solution", RACE Workshop on Traffic and Performance Aspects in IBCN, Munich, July 3-4, 1990.
- C4. **N.M.Mitrou**, D.E.Pendarakis "Cell-Level Statistical Multiplexing in ATM Networks: Analysis, Dimensioning and Call-Acceptance Control w.r.t. QOS Criteria," 7th International Teletraffic Congress Seminar, Morisstown, NT, USA, Oct. 9-11, 1990.
- C5. **N.M.Mitrou**, K.P.Kontovasilis, S.G.Nalpadidou and E.N.Protonotarios, "Bursty Traffic in ATM Networks: An Engineering Approach for CAC and Traffic Shaping," Workshop on ATM Network Planning and Evolution, 16/17 April 1991, London
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- C20. J. Zissopoulos, J. Soldatos, E. Vayias, G. Branis and **N. Mitrou**, "An Architecture for Group Communications-Support Networked Multimedia Applications", in Proc. *4th IEEE Workshop on the Architecture and Implementation of High Performance Communication Systems*, Chalkidiki, Greece, 23-25 June 1997
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