Βιογραφικό Σημείωμα

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Τόπος & ημερομηνία γέννησης: Λάρισα, 31 Ιανουαρίου 1972

Οικογενειακή κατάσταση: Άγαμος

Εκπαίδευση

1989 – 1995	Τμήμα Μηχανικών Παραγωγής και Διοίκησης, Πολυτεχνείο Κρήτης.
1992	Υποτροφία ERASMUS για το Technical University of Eindhoven, Ολλανδία.
1995	Διπλωματική Εργασία «Συστήματα Αυτόματων Αυτοκινητοδρόμων: Επισκόπηση και Προκαταρκτική Προσομοίωση».
1995 – 1998	Μεταπτυχιακό Δίπλωμα Ειδίκευσης, Τμήμα ΜΠΔ, Πολυτεχνείο Κρήτης
1998	Μεταπτυχιακή Εργασία «Ολοκληρωμένος Έλεγχος Δικτύων Αυτοκινητοδρόμων».
2004	Διδακτορική Διατριβή «Μοντελοποίηση και Βέλτιστος Έλεγχος Κυκλοφορίας Δικτύων Αυτοκινητοδρόμων Ευρείας Κλίμακας», Τμήμα ΜΠΔ, Πολυτεχνείο Κρήτης.

Γλώσσες

Ελληνικά
Αγγλικά

Εργασία

1995 - 2004	Επιστημονικός Συνεργάτης, Εργαστήριο Δυναμικών Συστημάτων & Προσομοίωσης
2004 - σήμερα	Μεταδιδακτορικός Ερευνητής, Εργαστήριο Δυναμικών Συστημάτων & Προσομοίωσης
2004 - σήμερα	Λέκτορας (407), Τμήμα Μηχανικών Παραγωγής & Διοίκησης, Πολυτεχνείο Κρήτης.

Στρατιωτικές Υποχρεώσεις

Πλήρως εκπληρωμένες (θητεία 2001-2002).

Διδακτική Εμπειρία

Φροντιστηριακές ασκήσεις στα μαθήματα

- Μη Γραμμικός Προγραμματισμός.
- Δυναμικός Προγραμματισμός.

Πλήρης διδασκαλία μαθημάτων υπό το καθεστώς 407:

- Αξιοπιστία Συστημάτων (Χειμερινό εξάμηνο 2004).
- Συστήματα Παραγωγής (Θερινό εξάμηνο 2005).

Ερευνητικές Δραστηριότητες

Συμμετοχή στα ερευνητικά έργα:

- **DACCORD** (TR1017) της Ευρωπαϊκής Ένωσης (DG XIII - Transport Telematics).
  Θέμα: Coordinated Dynamic Traffic Management with Applications to the Ile-de-France Network, the Ville de Paris Network, the Amsterdam Periurban Network, and the Venice-Padua Motorway.
  Διάρκεια: 1996 – 1999.
- **DELPHI** (26965) της Ευρωπαϊκής Ένωσης (DG III - ESPRIT).
  Θέμα: Integration in Manufacturing with sales forecasting.
  Διάρκεια: 1998 – 2000.
- **OMNI** (IST-1999-11250) της Ευρωπαϊκής Ένωσης (DG XIII), R&D Programme Information Society Technologies.
  Θέμα: Integrated architecture for urban traffic control and development of an Internet information system with implementation in Milano, Paris, Alicante and Chania.
  Διάρκεια: 2000 – 2003.
- **SMART NETS** (IST-2000-28090) της Ευρωπαϊκής Ένωσης (DG XIII), R&D Programme Information Society Technologies.
  Θέμα: Implementation and Field-Evaluation of the Urban Traffic Control Strategy TUC in Southampton (U.K.), Munich (Germany) and Chania (Greece).
  Διάρκεια: 2001 – 2003.
- **RHYTHM** (IST-2000-29427) της Ευρωπαϊκής Ένωσης (DG XIII), R&D Programme Information Society Technologies.
  Θέμα: Motorway Traffic Surveillance and Control Employing Video Sensor Technology.
  Διάρκεια: 2001 – 2004.
- **EURAMP** της Ευρωπαϊκής Ένωσης (IST-2002-23110)
  Θέμα: European Ramp Metering Project.
  Διάρκεια: 2004 – 2007

Ερευνητικά Ενδιαφέροντα

Μοντελοποίηση της κυκλοφοριακής ροής.

Έλεγχος της κυκλοφοριακής ροής.

Βελτιστοποίηση και εφαρμογές.

Αυτόματος Έλεγχος.

Βέλτιστος Έλεγχος.

Νευρωνικά Δίκτυα.

Πρόβλεψη Χρονοσειρών.

Δημοσιεύσεις

Α. Άρθρα σε περιοδικά

A1. A. Kotsialos and M. Papageorgiou, "The importance of traffic flow modelling for motorway traffic control," Networks and Spatial Economics, Vol. 1, pp. 179–203, 2000.

A2. A. Kotsialos, M. Papageorgiou and F. Middelham, "Optimal coordinated ramp metering with AMOC," Transportation Research Record, No. 1748, pp. 55–65, 2001.

A3. A. Kotsialos, M. Papageorgiou and A. Poulimenos, "Long term sales forecasting for industrial supply chain management," Operational Research. An international Journal, Vol. 1, No. 3, pp. 241–251, 2001.

A4. A. Kotsialos, M. Papageorgiou, M. Mangeas and H. Haj-Salem, "Coordinated and integrated control of motorway networks via non-linear optimal control," Transportation Research C, Vol. 10, No. 1, pp. 65–84, 2002.

A5. M. Papageorgiou and A. Kotsialos "Freeway ramp metering: An overview," IEEE Transactions on Intelligent Transportation Systems, Vol. 3, No. 4, pp. 271–281, 2002.

A6. A. Kotsialos, M. Papageorgiou, C. Diakaki, Y. Pavlis and F. Middelham, "Traffic flow modeling of large-scale motorway networks using the macroscopic modeling tool METANET," IEEE Transactions on Intelligent Transportation Systems, Vol. 3, No. 4, pp. 282–292, 2002.

A7. A. Kotsialos and M. Papageorgiou, "Motorway network traffic control systems," European Journal of Operational Research, Vol. 152, No. 2, pp. 321–333, 2004.

A8. M. Papageorgiou, C. Diakaki, V. Dinopoulou, A. Kotsialos and Y. Wang, "Review of road traffic control strategies," Proceedings of the IEEE, Vol. 91, No. 12, pp. 2043–2067, 2003.

A9. A. Kotsialos and M. Papageorgiou, "Efficiency and equity properties of freeway network–wide ramp metering with AMOC," Transportation Research C, Vol. 12, No. 6, pp. 401–420, 2004.

A10. A. Kotsialos and M. Papageorgiou, "Nonlinear optimal control applied to coordinated ramp metering," IEEE Transactions on Control Systems Technology, Vol. 10, No. 6, pp. 920–933, November 2004.

A11. A. Kotsialos, M. Papageorgiou and A. Poulimenos, "Long-term sales forecasting using Holt-Winters and Neural Networks Methods", Journal of Forecasting, accepted for publication.

A12. A. Kotsialos, M. Papageorgiou and F. Middelham, "Local and Optimal Coordinated Ramp Metering for Freeway Networks". (Στο στάδιο τελικής αναθεώρησης για το ITS Journal).

Β. Κεφάλαια Βιβλίων

B1. ITS and Traffic Management. One of the chapters of Operations Research Handbook on Transportation. Co-authored with M.Papageorgiou, J. Bottom, M. Ben Akiva, S. Hogendoorn, P. Bovy, M. McDonald, and N. Hounsell. Στο στάδιο της προεργασίας.

B2. A. Kotsialos and M. Papageorgiou, "The Traffic Amelioration Potential of Freeway Network Ramp Metering Control", άρθρο που θα δημοσιευθεί σε ειδικό τόμο επ' ευκαιρία των 65^{ων} γενεθλίων του Καθηγητή Pravin Varaiya, Univ. of California, Berkeley.

Γ. Άρθρα σε συνέδρια

Γ1. A.Kotsialos, Y. Pavlis, F. Middelham, M. Papageorgiou and C. Diakaki, "METANET application and validation for the large scale motorway network around Amsterdam," in Proc. (CD) 4th World Congress on Intelligent Transportation Systems, Berlin, Germany, October 21–24, 1997

Γ2. A. Kotsialos, C. Diakaki, Y. Pavlis, M. Papageorgiou and G. Vardaka, "Short-term traffic forecasting using the macroscopic simulation tool METANET," in Proc. DACCORD Short Term Traffic Forecasting Workshop, Delft University of Technology, Delft, The Netherlands, February 13, 1998, pp. 11–30.

Γ3. A. Kotsialos, H. Haj-Salem, F. Middelham, J. van Schuppen and J. Taylor, "DACCORD integrated and co-ordinated control," in 8th World Conference on Transport Research, Antwerp, Belgium, July 12–17, 1998.

Γ4. A. Kotsialos, Y. Pavlis, C. Diakaki, G. Vardaka and M. Papageorgiou, "Modelling of the large scale motorway network around Amsterdam," in Preprints 8th IFAC/IFORS/IMACS/IFIP Symposium on Large Scale Systems Theory & Applications, Patras, Greece, July 15–17, 1998, pp. 354–360.

Γ5. A. Kotsialos, M. Papageorgiou and A. Messmer, "AMOC: A generic tool for integrated control of motorway traffic networks," in DACCORD Workshop on Advanced Motorway Traffic Control, Lancaster University, United Kingdom, December 11, 1998, pp. 34–45.

Γ6. A. Kotsialos, M. Papageorgiou and A. Messmer, "Optimal co-ordinated and integrated motorway network traffic control," in Proc. TRAIL Expert Seminar on Recent Advances in Traffic Flow Modelling and Control, Delft, The Netherlands, 20 September 1999, Chapter 2.

Γ7. A. Kotsialos, M. Papageorgiou, C. Diakaki, Y. Pavlis and F. Middelham, "Traffic flow modelling of large-scale motorway networks using the macroscopic modelling tool METANET," in Proc. TRAIL Expert Seminar on Recent Advances in Traffic Flow Modelling and Control, Delft, The Netherlands, 20 September 1999, Chapter 6.

Γ8. A. Kotsialos, M. Papageorgiou and A. Messmer, "Integrated optimal control of motorway traffic networks," in Proc. 1999 American Control Conference, San Diego, California, USA, June 2–4, 1999, pp. 2183–2187.

Γ9. A. Kotsialos, M. Papageorgiou and A. Messmer, "Optimal co-ordinated and integrated motorway network traffic control," in Proc. 14th Intern. Symposium on Transportation and Traffic Theory (Elsevier Science), Jerusalem, Israel, 20–23 July 1999, pp. 621–644.

Γ10. A. Kotsialos and M. Papageorgiou, "Nonlinear optimal control applied to coordinated ramp metering," in Preprints 11th IFAC Workshop on Control Applications of Optimization, Saint-Petersburg, Russia, July 3–6, 2000, Vol. 1, pp. 190–195.

Γ11. M. Papageorgiou and A. Kotsialos, "Freeway ramp metering: An overview," in Proc. 3rd IEEE Intern. Conference on Intelligent

Transportation Systems, Dearborn, Michigan, October 1–3, 2000, pp. 228–239.

Γ12. A. Kotsialos, M. Papageorgiou and F. Middelham, "Optimal coordinated ramp metering with AMOC," in Preprints CD-ROM of the TRB (Transportation Research Board) 80th Annual Meeting, Washington, D.C., January 7–11, 2001, Paper No. 01–3125.

Γ13. A. Kotsialos and M. Papageorgiou, "Nonlinear optimal control applied to coordinated ramp metering in the Amsterdam ringroad," in Preprints 9th IFAC/IFORS/IMACS/IFIP Symposium on Large Scale Systems Theory and Applications, Bucharest, Romania, July 18–20, 2001, pp. 472–477.

Γ14. A. Kotsialos and M. Papageorgiou, "Efficiency versus fairness in network-wide ramp metering," in Proc. 4th IEEE Conference on Intelligent Transportation Systems, Oakland, California, August 25–29, 2001, pp. 1190–1195.

Γ15. A. Kotsialos and M. Papageorgiou, "Overview of motorway network traffic control strategies," in Proc. of the 13th Mini-EURO Conference on Handling Uncertainty in the Analysis of Traffic and Transportation Systems and the 9th Meeting of the EURO Working Group on Transportation, Bari, Italy, June 10–13, 2002, pp. 381–386.

Γ16. A. Kotsialos and M. Papageorgiou, "Hierarchical nonlinear model predictive ramp metering control for freeway networks". TRISTAN V (Triennial Symposium on Transportation Analysis), June 13-18, 2004, Le Gosier, Guadeloupe.

Γ17. A. Kotsialos and M. Papageorgiou, "Holt-Winters and Neural-Network Methods for Medium-term Sales Forecasting". (Accepted for publication at the 16th IFAC World Congress, 2005).

Γ18. A. Kotsialos and M. Papageorgiou, "A Hierarchical Ramp Metering Control Scheme for Freeway Networks". (Αποδεκτό προς παρουσίαση και δημοσίευση στα πρακτικά του American Control Conference 2005).

Δ. Τεχνικές Εκθέσεις

Δ1. A. Kotsialos, M. Papageorgiou and partners of the Transport Telematics Project DACCORD (TR 1017), Coordinated Control Strategies, Deliverable 6.1, Report for Transport Telematics Office, Brussels, Belgium, December 1997.

Δ2. A. Kotsialos, M. Papageorgiou A. Messmer, and partners of the Transport Telematics Project DACCORD (TR 1017), Coordinated Control Software, Deliverable 6.2, Report for Transport Telematics Office, Brussels, Belgium August 1998.

Δ3. A. Kotsialos, M. Papageorgiou and partners of the Transport Telematics Project DACCORD (TR 1017), Off-Line Simulation Results, Deliverable 6.3, Report for Transport Telematics Office, Brussels, Belgium, August 1998.

Δ4. M. Papageorgiou, A. Kotsialos and partners of the Transport Telematics Project DACCORD (TR 1017), Exploitation Plan, Deliverable 11.2, Report for Transport Telematics Office, Brussels, Belgium, December 1998.

Δ5. A. Poulimenos, M. Papageorgiou and A. Kotsialos, Functional Specifications of the Prediction Module, Deliverable 3.1.1 of the project DELPHI (26965), European Programme ESPRIT, Brussels, Belgium, May 1999.

Δ6. A. Poulimenos, M. Papageorgiou and A. Kotsialos, Methodological Design of the Prediction Module, Deliverable 3.2.1 of the project DELPHI (26965), European Programme ESPRIT, Brussels, Belgium, July 1999.

Δ7. A. Poulimenos, M. Papageorgiou, A. Kotsialos and J. Marinakis, Calibration and Verification of Prediction Parameters, Deliverable 3.3.1 of the project DELPHI (26965), European Programme ESPRIT, Brussels, Belgium, February 2000.

Δ8. A. Poulimenos, M. Papageorgiou, A. Kotsialos and J. Marinakis, Comparison and Evaluation Results for Prediction Module, Deliverable 3.4.1 of the project DELPHI (26965), European Programme ESPRIT, Brussels, Belgium, October 2000.

Δ9. P. Karampyperis, M. Papageorgiou and A. Kotsialos, Software Code of Statistical Forecasting Methods, Deliverable 3.2.3 of the project DELPHI (26965), European Programme ESPRIT, Brussels, Belgium, October 2000.

Δ10. A. Kotsialos, M. Papageorgiou and Partners, Current Status of Ramp Metering, Deliverable D2.2 of the project EURAMP (IST-2002-23110), European Programme IST, December 2004.

Δ11. A. Kotsialos and M. Papageorgiou, The Impact of the Number of Release Rates on ALINEA Ramp Metering Performance, Dynamic Systems and Simulation Laboratory Internal Report No 2004-23, Technical University of Crete, Chania, Greece.

Δ12. M. Papageorgiou, A. Kotsialos and Partners, Preliminary Local Strategy Development, Deliverable D3.1 of the project EURAMP (IST-2002-23110), European Programme IST. Στο στάδιο της προεργασίας.

Παρουσιάσεις

1. Modelling and integrated control of the Amsterdam motorway network (in greek). Research Workshop of the Dynamic Systems and Simulation Labora-tory of the Technical University of Crete, Chania, Greece, April 10, 1997.
2. METANET application and validation for the large scale motorway network around Amsterdam. 4th World Congress on Intelligent Transportation Sys-tems, Berlin, Germany, October 21-24, 1997.
3. Short term traffic forecasting using the macroscopic simulation tool METANET. DACCORD Workshop on Short Term Traffic Forecasting, Delft, The Netherlands, February 13, 1998.
4. AMOC: A generic tool for integrated control of motorway traffic networks. DACCORD Workshop on Advanced Motorway Traffic Control, Lancaster University, United Kingdom, December 11, 1998.
5. DACCORD integrated and co-ordinated control. 8th World Conference on Transport Research, Antwerp, Belgium, July 12-17, 1998.
6. Integrated optimal control of motorway traffic networks. 1999 American Control Conference, San Diego, California, June 2-4, 1999.
7. Optimal co-ordinated and integrated motorway network traffic control. 14th Intern. Symposium on Transportation and Traffic Theory, Jerusalem, Israel, July 20-23, 1999.
8. Application of the OMNI model to the Chania site. 2nd OMNI Workshop, Alicante, Spain, 25 February 2003.
9. Application of the OMNI model to the Chania site. Presentation at the City Council of Chania, Chania, Greece, 13 March 2003.

Αξιολογήσεις επιστημονικών άρθρων για:

Περιοδικά:
- Transportation Research C
- European Journal of Operational Research

- IEEE Transactions on Control Systems Technology

Συνέδρια:
- WCTR (World Conference on Transport Research)
- IFAC (International Federation of Automatic Control) World Congress
- IEEE Conference on Decision and Control
- Transportation Research Board
- Mediterranean Conference on Control and Automation.

Αναφορές στις δημοσιεύσεις μου

Δημοσιεύσεις μου έχουν μνημονευθεί συνολικά **38 φορές** σε επιστημονικές εργασίες τρίτων (μη συνεργατών) ως εξής:

Το άρθρο Α4 αναφέρεται στις δημοσιεύσεις: [1], [2], [10], [13], [14], [21], [22].
Το άρθρο Α5 αναφέρεται στις δημοσιεύσεις: [7], [10], [11], [12], [22].
Το άρθρο Α6 αναφέρεται στη δημοσίευση [6].
Το άρθρο Α8 αναφέρεται στη δημοσίευση [9].
Το άρθρο Γ2 αναφέρεται στη δημοσίευση [15].
Το άρθρο Γ7 αναφέρεται στις δημοσιεύσεις [16], [22].
Το άρθρο Γ8 αναφέρεται στις δημοσιεύσεις [21], [22].
Το άρθρο Γ9 αναφέρεται στις δημοσιεύσεις: [8], [19], [21], [22], [23], [24], [25].
Το άρθρο Γ11 αναφέρεται στις δημοσιεύσεις: [3], [13], [17], [20].
Το άρθρο Γ12 αναφέρεται στις δημοσιεύσεις: [4], [5], [22].
Το άρθρο Γ14 αναφέρεται στις δημοσιεύσεις: [1], [12].
Η εργασία Δ1 αναφέρεται στο [8], [21], [22].

[1]   L. Zhang L and D. Levinson, "Optimal freeway ramp control without origin-destination information," *Transportation Research B*, Vol. 38, No. 10, pp. 869-887, 2004.
[2]   M. Herty and A. Klar, "Simplified dynamics and optimization of large scale traffic networks," *Mathematical Models & Methods in Applied Sciences*, Vol. 14, No. 4, pp. 579-601, 2004.
[3]   M. Cassidy, "Freeway On-Ramp Metering, Delay Savings and the Diverge Bottleneck," *Intelimotion*, Vol. 10, No. 3, 2003.
[4]   A. Hegyi, B. De Schutter, H. Hellendoorn, and T. van den Boom, "Optimal coordination of ramp metering and variable speed control - An MPC approach," Proceedings of the 2002 American Control Conference, Anchorage, Alaska, pp. 3600-3605, May 2002.
[5]   A. Hegyi, B. De Schutter, and H. Hellendoorn, "Model predictive control for optimal coordination of ramp metering and variable speed control," Proceedings of the 1st European Symposium on Intelligent Technologies, Hybrid Systems and their implementation on Smart

Adaptive Systems (EUNITE 2001), Tenerife, Spain, pp. 260-272, Dec. 2001.

[6]   L. Mihaylova and R. Boel, "Hybrid stochastic framework for freeway traffic flow modeling", Proceedings of the 1st international symposium on Information and communication technologies, pp. 372 – 377, 2003.

[7]   M. Cassidy and S. Ahn, "Driver Turn-Taking Behavior in Congested Freeway Merges," Transportation Research Board Annual Meeting, Washington, DC, 2005.

[8]   K. Bogenberger, H. Keller, and S. Ritchie, "Adaptive fuzzy systems for traffic responsive and coordinated ramp metering," Transportation Research Board Annual Meeting, Washington, DC, 2002.

[9]   F. Basile, C. Carbone, P. Chiacchio, R. K. Boel, and C. C. Avram, "A hybrid model for urban traffic control," Proceedings of the IEEE SMC'04, October 10-13, The Hague, The Netherlands, 2004.

[10] G. Gomes and R. Horowitz, "Globally Optimal Solutions to the On-ramp Metering Problem - Part I," Proceedings of the 7th International IEEE Conference on Intelligent Transportation Systems. 2004.

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[13] M. van den Berg, T. Bellemans, B. De Schutter, and H. Hellendoorn), "Control of traffic with anticipative ramp metering," Transportation Research Board Annual Meeting, Washington DC, 2005.

[14] M. van den Berg, B. De Schutter, A. Hegyi, H. Hellendoorn, "Model Predictive Control for Mixed Urban and Freeway Networks," Preprint CD Transportation Research Board Annual Meeting, Washington, DC, 2004.

[15] S.P. Hoogendoorn, P.H.L. Bovy and H. van Lint, "Short-term prediction of Traffic Flow Conditions in a Multilane Multi-class Network". In Michael A.P. Taylor, (Ed.), Transportation and traffic theory in the 21st century. (pp. 625-651). Oxford: Pergamon, Elsevier Science, 2002.

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