

## CURRICULUM VITAE

### **PROFESSOR DR. NUSRET TAN**

#### **Personal Details:**

**First and Last Name:** Nusret Tan

**Date of Birth:** 01 January 1971, Malatya, Turkey.

**Corresponding Address:** Inonu University, Engineering Faculty, Dept. of Electrical and Electronics Engineering, 44280, Malatya, Turkey.

**Gender:** Male **Marital status:** Married with three children **Nationality:** Turkish

#### **Education:**

<b>Degree</b>	<b>University/School</b>	<b>Year</b>
Intermediate and High School degree	Intermediate and High School, Dogansehir, Malatya, Turkey	1977-1989
English Preparatory degree	English Preparatory School, Hacettepe University, Ankara, Turkey	1989-1990
B.Sc. in Electronics Engineering	Electrical and Electronics Engineering Department, Hacettepe University, Ankara, Turkey	1990-1994
Language Course Degree	Sussex University, Brighton, UK	1995-1996
Ph. D. (D. Phil) in Control Systems Engineering (Electrical and Electronics Eng.)	Control System Engineering, Centre for Non-linear Dynamics and Control, Sussex University, Brighton, UK	1996-2000

#### **Ph. D. Thesis:**

Title of Thesis: "Robust Analysis and Design of Control Systems with Parametric Uncertainty"

Supervisor: Professor Derek P. Atherton, University of Sussex, Brighton, UK

#### **Research Interests:**

1. Robust control of uncertain systems 2. Robust stability 3. Computation of stabilizing Lag/Lead, PI and PID controllers 4. Computation of frequency response of uncertain systems 5. Robust controller design methods 6. Fractional Order Control Systems 7. Development of MATLAB based software programs for robust analysis and design.

#### **Employment History:**

<b>Title</b>	<b>University</b>	<b>Year</b>
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Research Assistant	Eng. Faculty, Dept. of Electrical & Electronics Eng., Inonu Univ., Malatya, Turkey	Feb. 1995-Nov. 1995
Language Course and Ph.D. (Research Assist.)	Sussex University, Brighton, UK	Nov. 1995-March 2000
Dr. Research Assistant	Eng. Faculty, Dept. of Electrical & Electronics Eng., Inonu Univ., Malatya, Turkey	March 2000-June 2001
Assistant Prof. Dr.	Eng. Faculty, Dept. of Electrical & Electronics Eng., Inonu Univ., Malatya, Turkey	June 2001-April 2004
Assoc. Prof. Dr.	Eng. Faculty, Dept. of Electrical & Electronics Eng., Inonu Univ., Malatya, Turkey	April 2004-September 2009
Prof. Dr.	Eng. Faculty, Dept. of Electrical & Electronics Eng., Inonu Univ., Malatya, Turkey	September 2009-present

### **Administrative Duties :**

Asist. Prof Member of Engineering Faculty Committee, Engineering Faculty, Inonu University, Malatya, Turkey, April 2003- April 2004.

Assoc. Prof. Member of Engineering Faculty Committee, Engineering Faculty, Inonu University, Malatya, Turkey, October 2008- 2009.

Head of Automatic Control Group, July 2004- present

Erasmus Coordinator of Department of Electrical and Electronics Eng., October 2008-October 2012.

Vice Chairmen of Dept. of Electrical and Electronics Eng., Engineering Faculty, Inonu University, Malatya, Turkey, April 2003- 2010.

Prof Member of Engineering Faculty Committee, Engineering Faculty, Inonu University, Malatya, Turkey, April 2011-present.

### **Scholarships and Awards :**

Second best in an examination in mathematics organized by The Scientific and Technical Research council of Turkey (TÜBİTAK) in east region of Turkey, Tübitak, 1989.

Scholarship for Ph. D. Studies Abroad, High Education Council of Turkey (YÖK), YÖK, 1995-2000.

Micheal Cuenod Trust Fund Award, IFAC, 2002.

Foundation support from TÜBİTAK to attend 15<sup>th</sup> IFAC World Congress, Tübitak, 2002.

Research Prize of TÜBİTAK for article A5, Tübitak, 2002.

Research Prize of TÜBİTAK for articles A2,A3 and A4, Tübitak, 2003.

Research Prize of TÜBİTAK for article A1, Tübitak, 2004.

## **Teaching:**

### **Undergraduate Level:**

1. Linear Algebra and Its Applications 2. Control Theory 3. Signals and Systems 4. Control Systems Design 5. Digital Systems 6. Digital Control 7. Nonlinear Control 8. Control Lab. 9. Final Year Projects

### **Graduate Level:**

1. Recent Research Results in Control Theory 2. Modern Feedback Control 3. Robust Control 4. Control Systems with Parametric Uncertainty 5. Advanced Digital Control Systems 6. Nonlinear Control 7. Analysis and Design of Modern Control Systems

## **Supervision:**

### **MSc Degree:**

Fatoş Yıkan, "Investigating and Developing Robust PID Controller Design Techniques", Inonu University, Dept. of Electrical and Electronics Engineering, MSc Thesis, 2005.

M. Mine Özyetkin, "Design of Robust Lag/Lead Controllers", Inonu University, Dept. of Electrical and Electronics Engineering, MSc Thesis, 2006.

Yasin Karataş, "Robustness Analysis of Digital Control Systems", Inonu University, Dept. of Electrical and Electronics Engineering, MSc Thesis, 2007.

Abdullah Yenigün, "Design and Performance Analysis for Uncertain Control Systems", Inonu University, Dept. of Electrical and Electronics Engineering, MSc Thesis, 2008.

### **PhD Degree:**

M. Mine Özyetkin, "Robust Analysis and Design of Fractional Order Control Systems with Parametric Uncertainty", Inonu University, Dept. of Electrical and Electronics Engineering, PhD Thesis (continue).

Celalettin Yeroglu, "Computation of Frequency Response of Fractional Order Control Systems and Design", Inonu University, Dept. of Electrical and Electronics Engineering, PhD Thesis, 2011.

## **Projects:**

"Development of Control and Systems Laboratories", Inonu University, Proje No: 2003/38.

Researcher.

"Investigation of the Virtual Laboratories for Engineering Education", Europe Union Leonardo da Vinci Mobility Project, Proje No: TR/EX1-0461

Coordinator.

“Development of Virtual Laboratories for Education of Electrical and Electronics Engineering Using HP Tablet PCs”, HP Inovation in Education Fund..

Researcher (Prepared the project)

Other projects.

“Kontrol ve Sistemler Lab. Altyapı Güçlendirme Projesi”, İnönü Üniversitesi, Araştırma Fonu, Proje No: 2003/38.

Researcher

“Bab 1”, İnönü Üniversitesi, Araştırma Fonu, Proje No: 2010/-.

Coordinator.

“Bab 2”, İnönü Üniversitesi, Araştırma Fonu, Proje No: 2010/-.

Coordinator.

“Bab 3”, İnönü Üniversitesi, Araştırma Fonu, Proje No: 2010/-.

Coordinator.

“Bilgisayar Müh. Bölümü Laboratuar Alt Yapısının Güçlendirilmesi”, İnönü Üniversitesi, Araştırma Fonu, Proje No: 2010/11

Researcher

## **PUBLICATIONS**

## **Dissertation:**

1. **Tan, N.**, “Robust Analysis and Design of Control Systems with Parametric Uncertainty”, *Ph. D. Thesis*, School of Engineering, University of Sussex, Brighton, UK, 1999.

## **Journal Publications:**

2. Yeroglu, C. and **N. Tan.**, “Note on fractional-order proportional-integral-differential controller design,” *Control Theory and Applications-IET*, Vol. 5, No. 17, pp. 1978-1989, 2011.

3. Yeroglu, C. and **N. Tan.**, “Classical controller design techniques for fractional order case,” *ISA Transactions*, Vol. 50, No. 3, pp. 461-472, 2011.

4. **Tan, N.**, Ö. F. Özgüven and M. M. Özyetkin, “Author’s reply: A comment on the “Robust stability analysis of fractional order interval polynomials”, by Nusret Tan et al.,” *ISA Transactions*, Vol. 50, No. 1, pp. 12, 2011.

5. Yeroglu, C., M. Mine Özyetkin and **N. Tan.**, “Frequency response computation of fractional order interval transfer functions,” *International Journal of Control, Automation, and Systems*, Vol. 8, No. 5, pp. 1009-1017, 2010.

6. Yeroglu, C. and **N. Tan.**, “Absolute Stability of Uncertain Fractional Order Control Systems,” *Journal of Applied Functional Analysis Special Issue III: "Chaos and Complex Systems 2010"*, Vol. 6, No. 3, pp. 211-218, 2010.

7. **Tan, N.**, Ö. F. Özgüven and M. M. Özyetkin, “Robust stability analysis of fractional order interval polynomials,” *ISA Transactions*, Vol. **48**, No. 2, pp. 166-172, 2009.

8. **Tan, N.**, “Computation of stabilizing PI-PD controllers,” *International Journal of Control, Automation, and Systems*, Vol. **7**, No. 2, pp. 175-184, 2009.

9. Yeroglu, C. and **N. Tan.**, “Design of robust PI controller for vehicle suspension system,” *Journal of Electrical Engineering and Technology*, Vol. 3, No. 1, pp. 135-142, 2008.

10. Kaya, I., **N. Tan** and D. P. Atherton, “Improved cascade control structure for enhanced performance,” *Journal of Process Control*, Vol. **17**, No. 1, pp. 3-16, 2007.

11. Alisoy, H. Z., C. Yeroglu, M. Koseoglu and **N. Tan.**, “Effect of dielectric barrier discharge on the sorption properties of disperse porous materials in CO<sub>2</sub>-silicagel and SF<sub>6</sub>-silicagel systems,” *Ind. Eng. Chem. Res.*, Vol. **46**, No. 13, pp. 4468-4473, 2007.

12. **Tan, N.**, I. Kaya, C. Yeroglu and D. P. Atherton, "Computation of stabilizing PI and PID controllers using the stability boundary locus," *Energy Conversion and Management*, Vol. **47**, No. 18-19, pp. 3045-3058, 2006.
13. Hamamci, S. E. and **N. Tan.**, "Design of PI controllers for achieving time and frequency domain specifications simultaneously," *ISA Transactions*, Vol. **45**, No. 4, pp. 529-543, 2006.
14. **Tan, N.** and D. P. Atherrton, "Design of stabilizing PI and PID controllers," *International Journal of Systems Science*, Vol. **37**, No. 8, pp. 543-554, 2006.
15. Kaya, I., **N. Tan** and D. P. Atherton, "A refinement procedure for PID controllers," *Electrical Engineering*, Vol. 88, No. 3, pp. 215-221, 2006.
16. **Tan, N.**, "Computation of Stabilizing PI and PID controllers for processes with time delay," *ISA Transactions*, Vol. **44**, No. 2, pp. 213-223, 2005.
17. **Tan, N.**, "Robust Phase Margin, Robust Gain Margin and Nyquist Envelope of an Interval Plant Family," *Computers and Electrical Engineering*, Vol. **30**, No. 2, pp. 153-165, 2004.
18. **Tan, N.** and D. P. Atherton, "New Approach to Assessing the Effects of Parametric Variations in Feedback Loops," *IEE Proc.-Control Theory Appl.*, Vol. **150**, No. 2, pp. 101-111, 2003.
19. **Tan, N.**, "Computation of Stabilizing Lag/Lead Controller Parameters," *Computers and Electrical Engineering*, Vol. **29**, No. 8, pp. 835-849, 2003.
20. **Tan, N.** and D. P. Atherton, "Robustness Analysis of Control Systems with Mixed Perturbations," *Trans. of the Inst. of Meas. and Control*, Vol. **25**, No. 2, pp. 163-184, 2003.
21. **Tan, N.**, "Computation of the Frequency Response of Multilinear Affine Systems," *IEEE Trans. on Automatic Control*, Vol. **47**, No. 10, pp. 1691-1696, 2002.
22. **Tan, N.** and D. P. Atherton, "Frequency Response of Uncertain Systems: A 2q-Convex Parpolygonal Approach," *IEE Proc.-Control Theory Appl.*, Vol. **147**, No. 5, pp. 547-555, 2000.
23. **Tan, N.** and D. P. Atherton, "Stability and Performance Analysis in an Uncertain World," *Computing and Control Engineering Journal*, Vol. **11**, No. 2, pp. 91-101, 2000.

### **International Conference Publications:**

24. Özyetkin, M. M. and N. Tan, "Integer order approximation of uncertain fractional order differentiations and integrations," *The 11th International Workshop on Dynamical Systems and Applications*, Çankaya University, Ankara, June 26-28, 2012.
25. Yeroglu, C. and N. Tan, "Robust parametric classical controller design for fractional order plant," *4th IFAC Workshop on Fractional Differentiation and Its Applications (FDA10)*, University of Extremadura, Badajoz, Spain, October 18-20, 2010.
26. Yeroglu, C., M. M. Özyetkin and N. Tan, "Design of robust  $PI^{\lambda}D^{\mu}$  controller for FOPDT systems," *4th IFAC Workshop on Fractional Differentiation and Its Applications (FDA10)*, University of Extremadura, Badajoz, Spain, October 18-20, 2010.
27. Yeroglu, C. and N. Tan, "Relay auto-tuning of PID for fractional order nonlinear systems," *3rd Conference on Nonlinear Science and Complexity*, Ankara, Turkey, 28-31 July, 2010.
28. Yeroglu, C. and N. Tan, "Limit cycle prediction for fractional order nonlinear systems," *IFAC Workshop, Periodic Control systems (PSYCO2010)*, Antalya, Turkey, August 26-28, 2010.
29. Yeroglu, C. and N. Tan, "Absolute stability of uncertain fractional order control systems," *3rd International Interdisciplinary Chaos Symposium on Chaos and Complex Systems*, İstanbul, Turkey, 21-24 May 2010.
30. Özyetkin, M. M., C. Yeroglu, N. Tan and M. E. Tagluk, "Design of PI and PID controllers for fractional order time delay systems," *9th IFAC Workshop on Time Delay Systems (IFAC TDS 2010)*, Prague, Czech Republic, June 7-9, 2010.
31. Yeroglu, C., C. Onat and N. Tan, "A new tuning method for  $PI^{\lambda}D^{\mu}$  controller," 6th International Conference on Electrical and Electronics Engineering (ELECO09), Bursa, Turkey, .5-8 November 2009.
32. Yeroglu, C. and N. Tan, "Development of a toolbox for frequency response analysis of fractional order control systems," *19th European Conference on Circuit Theory and Design*, Antalya, Turkey, 2009.
33. Tan, N. and M. M. Özyetkin, "Computation of Nyquist envelope of fractional order interval transfer functions," *3rd IFAC Workshop on Fractional Differentiation and its Applications*, Ankara, Turkey, 05-07 November 2008.
34. Tan, N., M. M. Özyetkin and H. Alisoy, "Computation of stabilizing phase lead and phase lag controllers," *Proc. of the fifth GAP Engineering Congress*, Şanlıurfa, Turkey, 26-28 April 2006.

35. Tan, N., I. Kaya and D. P. Atherton, "A graphical method for computation of all stabilizing PI controllers," *16th IFAC World Congress*, Prague, Czech Republic, July 4-8, 2005.
36. Kaya, I., N. Tan and D. P. Atherton, "Improved cascade controller structure and controller design," *Proc. of the 44th IEEE Conf. on Decision and Control, and the European Control Conference 2005*, Seville, Spain, December 12-15, 2005.
37. Yeroğlu, C. and N. Tan, "Computation of stabilizing PI parameters for vehicle suspension system using the stability boundary locus," *IEEE International Conference on Mechatronics*, June 3-5, İstanbul, Turkey, 2004.
38. Tan, N. and D. P. Atherton, "Computation of all stabilizing PI controllers for TITO systems," *6th Portugues Conf. on Automatic Control*, Faro, Portugal, June 7-9, 2004.
39. Tan, N. and I. Kaya, "Computation of stabilizing PI controllers for interval systems," *11th Mediterranean Conf. on Control and Automation*, Rhodes, Greece, June 18-20, 2003.
40. Kaya, I. and N. Tan, "Controller design for stable processes using user specified gain and phase margin specifications and two degree-of-freedom IMC structure," *11th Mediterranean Conf. On Control and Automation*, Rhodes, Greece, June 18-20, 2003.
41. Tan, N. and D. P. Atherton, "A New Approach to the Stability of Nonlinear Systems with Uncertain Plant Parameters," *American Control Conference 2003, ACC03*, Denver, Colorado, USA, 2003.
42. Tan, N., D. P. Atherton and S. Dormido, "Systems with Variable Parameters; Classical Control Extensions for Undergraduates," *6<sup>th</sup> IFAC Symposium on Advances in Control Education, ACE03*, University of Oulu, Finland, 2003.
43. Tan, N., I. Kaya and D. P. Atherton, "Computation of Stabilizing PI and PID Controllers," *2003 IEEE Conferans on Control Applications, CCA03*, İstanbul, Turkey, June 23-25, 2003.
44. Kaya, I., N. Tan and D. P. Atherton, "A Simple Procedure for Improving Performance of PID Controllers," *2003 IEEE Conferans on Control Applications, CCA03*, İstanbul, Turkey, 2003.
45. Tan, N. and D. P. Atherton, "Stability Margin Computation for Nonlinear Systems: A Parametric Approach," *15<sup>th</sup> IFAC World Congress*, Barcelona, Spain, 2002.
46. Tan, N. and D. P. Atherton, "Some Results on Control Systems with Mixed Perturbations," *15<sup>th</sup> IFAC World Congress*, Barcelona, Spain, 2002.



47. Atherton, D. P. and N. Tan, "Design of Robust Controllers for Uncertain Transfer Functions in Factored Form," *15<sup>th</sup> IFAC World Congress*, Barcelona, Spain, 2002.
48. Tan, N. and D. P. Atherton, "Robust Stability of Multilinear Affine Polynomials," *Proc. of the 2002 IEEE International Conf. on Contr. Appl. And International Symp. On Computer Aided Contr. Syst. Design, CCA/CACSD 2002*, pp. 1327-1332, Glasgow, Scotland, UK, 2002.
49. Tan, N. and D. P. Atherton, "Analysis of Uncertain Transfer Functions in Factored Form," *Proc. of the 2002 IEEE International Conf. on Contr. Appl. And International Symp. On Computer Aided Contr. Syst. Design, CCA/CACSD 2002*, pp. 1044-1049, Glasgow, Scotland, UK, 2002.
50. Tan, N. and D. P. Atherton, "Absolute Stability Analysis of Uncertain Nonlinear Systems Using Bode Envelopes," *Proc. of the 5<sup>th</sup> Portuguese Conf. on Automatic Contr. (Controlo 2002)*, pp. 103-108, Averio, Portugal, 2002.
51. Atherton, D. P. and N. Tan, "The Absolute Stability of Uncertain Nonlinear Systems Using New Formulations of the Circle Criteria," *Proc. of the 41<sup>st</sup> Conf. on Decision and Contr., CDC 2002*, pp. 2284-2285, Las Vegas, Nevada, USA, 2002.
52. Tan, N. and D. P. Atherton, "Bode envelopes of multilinear affine systems," *European Control Conference (ECC2001)*, pp. 402-407, 2001.
53. Tan, N. and D. P. Atherton, "Extensions of Classical Methods to Uncertain Systems: An Educational Perspective," *Advances in Control Education 2000*, edited by L. Vlacic and M. Brisk, pp. 305-310, Gold Coast, Queensland, Australia, 2001.
54. Tan, N. and D. P. Atherton, "A User Friendly Toolbox for the Analysis of Interval Systems," *3<sup>rd</sup> IFAC Symposium on Robust Control Design, ROCOND 2000*, Prague, Czech Republic, 2000.
55. Tan, N. and D. P. Atherton, "Design of Robust Controllers for Uncertain Systems," *Proc. of the 4<sup>th</sup> Portuguese Conf. on Automatic Contr. (Controlo 2000)*, pp. 122-127, Guimaraes, Portugal, 2000.
56. Tan, N. and I. Kaya, "Robust Gain and Phase Margins for Systems with Parametric Uncertainty," *8<sup>th</sup> Mediterranean Conf. on Control and Automation*, University of Patras, Greece, 2000.
57. Tan, N. and I. Kaya, "Tuning of PID Controllers for Interval Plants," *8<sup>th</sup> Mediterranean Conf. on Control and Automation*, University of Patras, Greece, 2000.

58. Kaya, I. and N. Tan, "A Simple Automatic Tuning Method for a Smith Predictor," *8<sup>th</sup> Mediterranean Conf. on Control and Automation*, University of Patras, Greece, 2000.
59. Kaya, I. and N. Tan, "Tuning Smith Predictors Using Simple Formulae," *8<sup>th</sup> Mediterranean Conf. on Control and Automation*, University of Patras, Greece, 2000.
60. Tan, N. and D. P. Atherton, "Feedback Stabilization Using the Hermite Biehler Theorem," *Proc. of the 2<sup>nd</sup> Int. Conf. on the Control of the Industrial Processes*, pp. 253-256, New Castle, UK, 1999.
61. Tan, N. and D. P. Atherton, "Controller Synthesis Technique for Systems with Affine Linear Uncertainty," *14<sup>th</sup> IFAC World Congress*, Vol. G, pp. 133-138, Beijing, P. R. China, 1999.
62. Tan, N. and D. P. Atherton, "Absolute Stability Problem of Systems with Parametric Uncertainties," *European Control Conference*, Karlsruhe, Germany, 1999.
63. Tan, N. and D. P. Atherton, "Describing Function Analysis of Nonlinear Discrete Interval Systems," *European Control Conference, ECC'99*, Karlsruhe, Germany, 1999.
64. Tan, N. and D. P. Atherton, "Magnitude and Phase Envelopes of Systems with Affine Linear Uncertainty," *International Conference on CONTROL '98, UKAC*, pp. 1039-1044, Swansea, UK, 1998.
65. Tan, N. and D. P. Atherton, "AISTK-A Software Package for the Analysis of Interval Systems," *IEE Colloquium: Robust Control-Theory, Software and Applications*, London, UK, Digest No. 97/380, pp. 4/1-4/7, 1997.

### **National Journal Publications:**

66. Yeroglu, C. and N. Tan, "Prototip çift motorlu helikopter modeli üzerinde kesir dereceli PID ( $PI^{\lambda}D^{\mu}$ ) kontrolör uygulaması," *Otomasyon-Aylık Elektrik Elektronik Makine Bilgisayar Dergisi*, sayı. 225, pp. 208-216, 2011.
67. Yeroglu, C., C. Onat and N. Tan, "Kesirli dereceli  $PI^{\lambda}D^{\mu}$  kontrolörler için yeni bir tasarım yöntemi," *Otomasyon-Aylık Elektrik Elektronik Makine Bilgisayar Dergisi*, No. 213, pp. 262-270, 2010.
68. Mememdoğ, A. M. M. Özyetkin and N. Tan, "Güneş izlemeli kontrol sistemlerinin tasarımı ve incelenmesi," *Kaynak Elektrik: Enerji, Elektrik, Aydınlatma, Elektronik ve Otomasyon Mühendisliği dergisi*, Sayı 246, pp. 94-96, 2009.

## **National Conference Publications:**

69. Özyetkin, M. M and N. Tan, “Belirsiz kesir dereceli türev için tamsayı dereceli yaklaşım,” *Otomatik Kontrol Ulusal Toplantısı (TOK’12)*, Niğde Üniversitesi, Niğde, 11-13 Ekim 2012.
70. Özyetkin, M. M., C. Onat and N. Tan, “Zaman gecikmeli sistemler için  $PI^\lambda$  denetleyici tasarımı,” *Otomatik Kontrol Ulusal Toplantısı (TOK’12)*, Niğde Üniversitesi, Niğde, 11-13 Ekim 2012.
71. Şenol, B., C. Yeroglu and N. Tan, “Kesir dereceli kontrol sistemlerinin analizi için kolay kullanımlı arayüz,” *Otomatik Kontrol Ulusal Toplantısı (TOK’11)*, İzmir, 2011.
72. Yeroglu, C. and N. Tan, “Dayanıklı  $PI^{\lambda}D^{\mu}$  kontrolör tasarımı,” *TOK2010*, Gebze İleri Teknoloji Enstitüsü, 21-23 Eylül 2010.
73. Özyetkin, M. M. and N. Tan, “Kesirli dereceli sistemlerin tamsayı dereceli yaklaşımı,” *SİU 2010-IEEE 18. Sinyal İşleme ve İletişim Uygulamaları Kurultayı*, pp. 949-952, Diyarbakır, 22-24 Nisan 2010.
74. Özyetkin, M. M and N. Tan, “Kesirli dereceli transfer fonksiyonların tamsayı dereceli yaklaşım modellerinin incelenmesi ve PI kontrolör tasarımı,” *Otomatik Kontrol Ulusal Toplantısı (TOK’09)*, Yıldız Teknik Üniversitesi, İstanbul, 13-16 Ekim 2009.
75. Tepecik, C., M. Arkan, Ö. F. Özgüven and N. Tan, “DC-DC çevirici için PID ve Adaptif Ağ Yapısına Dayalı Bulanık Sistem(ANFIS) denetleyici tasarımı,” *Otomatik Kontrol Ulusal Toplantısı (TOK’08)*, pp. 382-386, İstanbul, 13-15 Kasım 2008.
76. Özyetkin, M. M., C. Yeroglu and N. Tan, “Kesirli dereceli aralık geçiş fonksiyonlarının Bode zarflarının hesaplanması,” *Otomatik Kontrol Ulusal Toplantısı (TOK’08)*, pp. 628-632, İstanbul, 13-15 Kasım 2008.
77. Tan, N. and M. M. Özyetkin, “Kesirli dereceli belirsiz polinomların dayanıklı kararlılık analizi,” *Otomatik Kontrol Ulusal Toplantısı (TOK’07)*, pp. 429-434, İstanbul, 5-7 Eylül 2007.
78. Özyetkin, M. M. and N. Tan, “Standart formdaki bazı transfer fonksiyonları için PI kontrolör tasarımı ve performans analizi,” *Otomatik Kontrol Ulusal Toplantısı (TOK’07)*, pp. 43-48, İstanbul, 5-7 Eylül 2007.
79. Yenigün, A. and N. Tan, “PI kontrolör tasarımı ve performans analizi,” 4. *Otomasyon Sempozyumu*, Samsun, 23-25 Mayıs 2007.

80. Karataş, Y. and N. Tan, “Dijital kontrol sistemlerinde dayanıklı kararlılık analizi,” 4. *Otomasyon Sempozyumu*, Samsun, 23-25 Mayıs 2007.

81. Tan, N. and F. Yıkan, “PI-PD Kontrolör Tasarımı,” *Otomatik Kontrol Ulusal Toplantısı (TOK'05)*, pp. 1-6, İstanbul, Türkiye, 2005.

### **Book Chapter**

82. Tan, N., M. M. Özyetkin and C. Yeroglu, “Nyquist envelope of fractional order transfer functions with parametric uncertainty”, *New Trends in Nanotechnology and Fractional Calculus Applications* (Baleanu, Dumitru; Güvenç, Ziya Burhanettin; Machado, J.A. Tenreiro (Eds.), Springer, 2009.