

## ÖZGEÇMİŞ

1. **Adı Soyadı: Tatyana YAKHNO**
2. **Doğum Tarihi: 14.04.1953**
3. **Unvanı: Prof.Dr.**
4. **Öğrenim Durumu:**

Derece	Alan	Üniversite	Yıl
Lisans	Matematik	Novosibirsk State University, Russia	1975
Y. Lisans	Bilgisayar Bilimleri	Novosibirsk State University, Russia	1975
Doktora	Bilgisayar Bilimleri	Computer Centre of Russian Academy of Science	1987

### 5. Akademik Unvanlar:

**Yardımcı Doçentlik Tarihi : 1987-1991;**

**Doçentlik Tarihi : 1991- 1997**

**Profesörlük Tarihi : 1997- present**

### 6. Yönetilen Yüksek Lisans ve Doktora Tezleri

#### 6.1. Yüksek Lisans Tezleri

1. AKSU F., "COMPARATIVE ANALYSIS OF XML QUERIES AND SQL", Dokuz Eylül Üniversitesi, 2007.
2. TUNCAY G., "DESIGN OF A GENERAL PURPOSE WEB BASED INTELLIGENT TUTORING SYSTEM", Dokuz Eylül Üniversitesi, 2006.
3. KİREMİTÇİ O., "EXPERT SYSTEM FOR MEDICAL DIAGNOSTICS", Dokuz Eylül Üniversitesi, 2006.
4. SALÇIN E., " TO CREATE MODEL THAT ANALYSIS CRM DATA AND IMPLEMENTATION OF ITS PROTOTYPE", Dokuz Eylül Üniversitesi, 2005.
5. YUMAK Z., "HIERARCHICAL CONSTRAINT SOLVER", Dokuz Eylül Üniversitesi, 2004.
6. ALKIM E., "MORPHOLOGICAL ANALYSIS IN NATURAL LANGUAGE PROCESSING FOR TURKISH LANGUAGE AND A NEW APPROACH FOR LEXICON DESIGN", Dokuz Eylül Üniversitesi, 2005.
7. İÇER O., "DESIGNING A ROBOT THAT CAN INTERPRET HUMAN SPEECH", Dokuz Eylül Üniversitesi, 2004.

8. KASAP M., "THREE DIMENSIONAL SIMULATION OF COMPLEX STRUCTURES", Dokuz Eylül Üniversitesi, 2003.
9. YILMAZ C., "KIDNEY ALLOCATION RANKED EXPERT SYSTEM WITH CBR TECHNIQUES", Dokuz Eylül Üniversitesi, 2003.
10. ÖZGENÇ Ç., "ANALYSIS OF PROGRAMMING LANGUAGES AND SPECIFICATION OF AN OBJECT ORIENTED PROGRAMMING LANGUAGE (SIMPL)", Dokuz Eylül Üniversitesi, 2002.
11. TEKİN E., "CONSTRAINT PROGRAMMING FOR FINITE DOMAINS PROBLEMS TIMETABLE SCHEDULING SYSTEM", Dokuz Eylül Üniversitesi, 2001.
12. KAPLANSEREN F., "DESIGN A SOFTWARE FOR METEOROLOGICAL OBSERVATIONS", Dokuz Eylül Üniversitesi, 2000.
13. GÜNEL K., "INTELLIGENT TUTORING SYSTEMS FOR EDUCATION", Dokuz Eylül Üniversitesi, 2000.
14. DOLGUN Ş., "AUTOMATIC SUMMARIZING BASED ON SENTENCE EXTRACTION TWO DIFFERENT STATISTICAL APPROACHES", Dokuz Eylül Üniversitesi, 1999.
15. DEMİR S., "DESIGN AND IMPLEMENTATION OF CONSTRAINT BASED SOLVER FOR SUBDEFINITE DATA", Dokuz Eylül Üniversitesi, 1999.
16. BAYOĞLU L., "MANAGEMENT INFORMATION SYSTEM AND DATA WAREHOUSING", Dokuz Eylül Üniversitesi, 1999.

## **6.2. Doktora Tezleri :**

1. KASAP M., "SIMULATION OF WAVE PROPAGATION IN ANISOTROPIC MEDIA", Dokuz Eylül Üniversitesi, 2008.
2. YETGİN Z., "3G WIRELESS MULTICASTING SERVICE DESCRIPTION DISCOVERY AND TRANSPORT", Dokuz Eylül Üniversitesi, 2008.
3. AŞLIYAN R., "DESIGN AND IMPLEMENTATION OF TURKISH SPEECH RECOGNITION ENGINE", Dokuz Eylül Üniversitesi, 2008.
4. ŞAHAN A., "A MULTI-AGENT SYSTEM FOR URBAN TRAFFIC CONTROL", Dokuz Eylül Üniversitesi, 2008.
5. KAPLANSEREN F., "AN INTELLIGENT AGENT APPLICATION FOR BUYERS IN ELECTRONIC COMMERCE", Dokuz Eylül Üniversitesi, 2008.
6. EKİN E., "FORMAL METHODS AND PROGRAMMING TOOLS FOR MODELLING ANT COLONIES", Dokuz Eylül Üniversitesi, 2004.

## **7. Yayınlar**

- 7.1. Uluslararası hakemli dergilerde yayınlanan makaleler (SCI & SSCI & Arts and Humanities)

1. Yakhno V.G., Yakhno T.M. "Modelling and Simulation of Electric and Magnetic Fields in Homogeneous Non-dispersive Anisotropic Materials". Computers & Structures, V. 85, Elsevier, 2007.
2. Yakhno V.G., Yakhno T.M., Kasap M. "A Novel Approach for Modeling and Simulation of Electromagnetic Waves in Anisotropic Dielectrics". International Journal of Solids and Structures, V. 43, Elsevier, 2006.
3. Asliyan R., Gunel K., Yakhno T. "Detecting Misspelled Words in Turkish Text Using Syllable N-gram Frequencies". Lecture Notes in Computer Science V. 4815, 2007.
4. Yumak Z., Yakhno T., "HIS: Hierarchical Solver for Over-Constrained Satisfaction Problems". Lecture Notes in Computer Science. V. 3949. 2006.
5. Yakhno T., et all., "Kidney Allocation Expert System with Case -Based Reasoning". Lecture Notes in Computer Science., V. 3261, 2004.
6. Yakhno T., Tekin E. Application of Constraint Hierarchy to Timetabling Problems. Lecture Notes in Computer Science. Vol.2510. 2002.
7. Yakhno T., Ekin E. "Ant Systems: Another Alternative for Optimization problems?" Lecture Notes in Computer Science, Vol. 2457, 2002.
8. Petrov E, Yakhno T. "Subdefinite Models and Logical Programming: Constraint Satisfaction." Programming and Computer Software, Vol.2 . 2001.
9. Yakhno T., Petrov E. "LogiCalc: Integrating Constraint Programming and Subdefinite Models". Programming and Computer Software, N.3. 1996.
10. Greenberg S., Yakhno T. "Technical Diagnostics Expert Systems in the Shell DIGEN". Izvestija AN SSSR, N.5. 1990.
11. Yakhno T. "Formal Model of Inference in Production Systems", Izvestija AN USSR, N.2. 1988.

## **7.2. Uluslararası diğer hakemli dergilerde yayınlanan makaleler**

1. Yakhno T. et al. "Interval Domain Library for ECLiPSe and Applications." ICL Computer Journal. Vol.12, Issue 2. 1997.
2. Yakhno T. "Integration of Different Knowledge Representation Means in Knowledge Bases" . NATO Advanced Study Institute. Constraint Programming. Tallinn, 1993.
3. Yakhno T., Golubeva L. "Intellectual Systems Design in Program Environment SKIP". Control Systems and Machines, N.5, Kiev, 1987.
4. Narin'ani A., Yakhno T. "Procedure Bottom-up as Non-Deterministic Parallel Process". Computers and Artificial Intelligence. Bratislava, 1982.
5. Narin'ani A., Yakhno T. "Experimental System of Bottom- up Analysis". Cybernetics, Vol.2. Kiev, 1978.

## **7.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceedings) basılan bildiriler**

1. Petrov E., Yakhno T. "Extensional set library for ECLiPSe." Proc. Int. Conf. Practical Application of Constraint Logic Programming, Manchester, UK, 2000.
2. Yakhno T., Petrov E. "Integration Set Library into ECLiPSe". Proc. . 3rd Int. Conf. Perspectives of

- System Informatics, LNCS, Vol.1755. 1999.
3. Yakhno T., Strots A. "An Approach to Integration Neural networks and Genetic Methods in AI". Proc. 6th International Conf. "Distributed Processing of Information", Novosibirsk, 1998.
  4. Yakhno T., Petrov E. "Constraint Programming for Knowledge Representation". Proc.3rd Int. Conf. on Knowledge-Based Software Engineering, IOS Press, Bratislava, 1998.
  5. Yakhno T. "New Possibilities of Logic Programming for Education". Proc. of International Conference "New Trends in Science Education". Istanbul, 1997.
  6. Yakhno T. et al. "Application of ECLiPse : Interval Domain Library ". Proc. of International Conference Practical Application of Constraint Programming.(PACT97), London, 1997.
  7. Yakhno T., Petrov E. "Integrating Constraint Programming and Subdefinite Models". In Proc. of International Conference "Practical Application Constraint Technology, PACT'96", London, 1996.
  8. Yakhno T., Cheblakov Z., Zilberfain S. "Application of Subdefinite Calculations to the Problems of Computer Design". In Proc. of International Conference "Advanced Mathematics Computations", Novosibirsk, Russia, 1995.
  9. Yakhno T. Cheblakov Z., Zilberfain S. "FISSURE: Finder of Solution with Subdefinite Resources". In Proc. of First International CONTESSA Database Workshop. Friedrichshafen, Germany, 1995.
  10. Yakhno T. "Constraint Programming: Subdefinite Models and their Applications". In Proc. of 3rd International Congress on Intelligent Techniques and Soft Computing. Aachen, Germany, 1995.
  11. Yakhno T. "Natural Language Interface for Knowledge Representation System for Mathematics". In Proc. of International Conf. New Computing Techniques in Physics Research. World Scientific, 1994.
  12. Yakhno T. Greenberg S. "Efficient Implementation of Declarative Knowledge representation". In Proc. of International Conf. New Computing Techniques in Physics Research. World Scientific, 1994.
  13. Greenberg S., Yakhno T. "Shell DIGEN: Efficient Implementation of Declarative Knowledge Representations". In Proc of International Congress on Computers and Applied Mathematics SCAM'93. St.Petersburg, 1993.
  14. Greenberg S., Yakhno T. "Efficient Implementation of Declarative Knowledge Representation in Problem-Oriented Shell". Proc. of International East-West Conference on AI. Moscow 1993.
  15. Yakhno T., Lihachev D. "Engineering on the Base of Sub-definite Models". In Proc. of International Conference "Computer Software", Kalinin, 1987.
  16. Yakhno T. "A Case Study of Technology for Building Expert Systems". In Proc. of International Conference " Systems of Knowledge and Image Understanding", Slovakia, 1986.
  17. Yakhno T. "Description of the Symbolic Transformation System for Algebraic Expressions", Proc. of International Conference "Methods of Mathematical Logic in Artificial Intelligence". Vilnius, 1980.

#### **7.4. Yazılan uluslararası kitaplar veya kitaplarda bölümler**

1. Yakhno T. (Editör). "Advances in Information Systems." First International Conference (ADVIS, 2000). Lecture Notes in Computer Science, V.1909, 2000
2. Yakhno T. (Editör). "Advances in Information Systems." Second International Conference (ADVIS, 2002). Lecture Notes in Computer Science, V.2457, 2002
3. Yakhno T. (Editör). "Advances in Information Systems." Third International Conference (ADVIS, 2004). Lecture Notes in Computer Science, V.3261, 2004
4. Yakhno T., Neuhold E. (Editör). "Advances in Information Systems." Fourth International Conference (ADVIS, 2000). Lecture Notes in Computer Science, V.4243, 2006
5. Yakhno T. et al. Subdefinite Models and their Applications. Chapter in the book: "System Informatics", Novosibirsk, Nauka, 1996 (In Russian).
6. Yakhno T. Constraint Programming: Approaches and Methods. Chapter in the book: "Systems of Informatics", Nauka, Novosibirsk, 1994.(in Russian).

#### **7.5. Ulusal hakemli dergilerde yayınlanan makaleler**

1. Yakhno T. Lihachev D. "Sub-definite Models for Computer Design." Informatics: Instrumental Tools. Novosibirsk, 1988.

2. Yakhno T. "Expert Systems Design on the Base of Production Systems". Theoretical Problems of Informatics Systems, Novosibirsk, 1986.
3. Yakhno T. "About One Technology of Expert System Design". Expert Systems. MDNTP, Moscow.1986.
4. Greenberg S., Yakhno T. "DIGEN: the Shell for Diagnostic Expert Systems Construction". Current Topics in Information Systems Research. Novosibirsk, 1991.
5. Yakhno T., Trapeznikov S. "Technological System ZAPSIB as the Base for Expert Systems Design". Design of Intellectual Programming Tools, Novosibirsk, 1988.
6. Yakhno T. "Inference Control in Production Systems". Theoretical and Applied Problems of Parallel Information Systems, Computer Center Russian Acad. of Science, 1984.
7. Yakhno T. "Parallel Lexical Analysis in BUMP Project". Parallel Programming Systems. Novosibirsk, 1981.
8. Yakhno T. "Experimental Processor for Symbolic Transformations". New Problems of Informatics, Novosibirsk, 1979.
9. Yakhno T., Narin'ani A. "Context-Sensitive Grammar in the System of Bottom-up Analysis". Natural Language Communication with Computer. Novosibirsk, 1978.

#### **7.6. Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler**

1. Ekin E., Yakhno T. "A Case Study of Adapting Ant System to Optimization Problem". Proc. of Tenth Turkish Symposium on Artificial Intelligence and Neural Networks. Gazimagusa, North Cyprus, 2001. p.103-110.
2. Yakhno T. "Dynamic Scheduling for Complex Systems." Proc. of Siberian Congress on Industrial and Applied Mathematics (INPRIM-2000).
3. Petrov E., Yakhno T. "Constraint Satisfaction in Logical Programming on the Base of Subdefinite Models." Proc. of 7-th National Russian Conference on Artificial Intelligence. Russia, 2000.
4. Yakhno T., Petrov E. "New Facilities of Constraint Logic Programming". In Proceedings of 8-th Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN'99). Istanbul, 1999.
5. Rigg M., Yakhno T. "New Possibilities of Logical Programming". In Proc. of National Conference "New Information Technologies in University Education". Novosibursk, Russia, 1996.
6. Greenberg S., Smola W., Yakhno T. "Data and Knowledge Bases Integration in the Shell DIGEN". In Proc. of the National Conference "Expert Systems" Moscow, 1992.
7. Greenberg S., Yakhno T. , Shusterman W. "Expert System for Cardiology", In Proc. of National AI

- Conference, V.1, Twer' 1992.
8. Greenberg S., Smola. W., Yakhno T. "Integrated Expert Systems in DIGEN Shell". In Proc. of National AI Conference V.1.Twer', 1992.
  9. Greenberg S., Yakhno T. "Shell DIGEN: One Approach to Expert Systems Development". In Proceedings of National Conference "Expert Systems", Syzdal, 1990.
  10. Greenberg S., Yakhno T. "DIGEN: a Shell for Designing Diagnostic Expert Systems". In Proc. of National AI Conference. Minsk, 1990.
  11. Greenberg S., Yakhno T. "Object-oriented Knowledge Representation System for Technical Diagnostics". In Proc. of National Conference " Parallel Programming and Effective Systems ", Kiev, 1990.
  12. Yakhno T. "Data-Driven Calculations in Production Systems". In Proc. of National Conference "Parallel Programming and Effective Structures" Kiev, 1988.
  13. Yakhno T., Trapeznikov S. "ZAPSIB: from Natural Language Processing to Expert Systems Design". In Proc. of National AI Conference, 1988.
  14. Yakhno T. "Expert and Knowledge Engineer Communication in Designing Expert Systems". In Proc. of National Conference "Expert Systems Design", Kishinev, 1987.
  15. Yakhno T. "Control in Production Systems". In Proc. of National Conference "Problems of Artificial Intelligence and Pattern Recognition", Kiev, 1984.
  16. Yakhno T. "Technological Tool for Artificial Intelligent Problems". Proc. Of National Conference " Parallel Programming and Effective Systems", Kiev, 1982.
  17. Yakhno T. "BUMP: Programming Environment for Artificial Intelligence Problems" Proc. of National Conference "Interactive Systems", Tbilisi. 1982

## **8. Projeler**

- International research grant INTAS "Formal models of reactive systems", 1995.
- Research grant Russian Foundation of Basic Research (RFBR) "Methods for integration logic and set-theoretic computer paradigms", 1996-1998.
- French-Russian research grant "Integrating Interval Constraint Programming with Subdefinite Models", from 1998 - 2002.
- Russian-Dutch Research Grant (CWI) "Distributed Imperative Constraint Programming", from 2000 – 2002.
- DPT grant from Turkish State Planning Agency (DPT) "Artificial intelligence Laboratory for Research and Education" from 2002-2004.
- Research grant of Dokuz Eylul Universiy" Bilgisayar Mühendisliği Bölümü Aktif Eğitim Planı Çerçevesinde Yeni Elektronik laboratuarı", No. BAP-2007133, 2007-2008.

## **9. İdari Görevler**

Bölüm Başkan Yrd. Dokuz Eylül Üniversitesi, Bilgisayar Bölümü 1999-2008

Donanım Anabilim Dalı Başkanı, Dokuz Eylül Üniversitesi, Bilgisayar Bölümü 1999-2008

#### 10. Bilimsel ve Mesleki Kuruluşlara Üyelikler

Member of Russian Association of Artificial Intelligence

#### 11. Ödüller yok

#### 12. Son iki yılda verdiğiniz lisans ve lisansüstü düzeydeki dersler için aşağıdaki tabloyu doldurunuz.

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2006-2007	Güz	CSE423 Logic Programming and Expert Systems	3	0	40
		CSE541 Theory of Computer Science	3	0	14
	İlkbahar	CSE402 Introduction to Artificial Intelligence	3	0	53
		CSE605 Constraint Programming	3	0	9
2007-2008	Güz	CSE 101 Discrete Mathematics	3	1	54
		MTS 305 Methods of Artificial Intelligence	2	0	11
	İlkbahar	CSE122 English for Computer Engineers	2	0	54
		CSE502 Artificial Intelligence	3	0	9