

naši autori



Juraj Altus graduated from the Technical University of Transport and Communications Zilina, Slovakia in 1974. He received his Ph.D. degree from the same university in 1985. Then he joined Faculty of Electrical Engineering of University of Transport and Communications as a researcher. In 1997 he became an Associated Professor for Energetic. As a head of the department he is responsible for the development of Electric Traction and Energetic department. He is a member of Ph.D. committees for »Electrical Engineering« and »Energetic«. His main research interests are electro-energetic, control of energetic complexes, electromagnetic compatibility and electric energy consumption.



Noriaki Ando received the B.E. degree in electrical engineering from Kyoto University, Kyoto, Japan in 1995, and the M.S. degrees in electrical engineering from the University of Tokyo, Tokyo, Japan in 1997. He received the Ph.D. degree at University of Tokyo, Tokyo, Japan. His research interests are networked robotics, teleoperation and haptic interface.



Davor Antonić received Dipl.ing., M.Sc.CS and Ph.D.CS degrees, all from the University of Zagreb, Faculty of Electrical Engineering and Computing (FER) in 1985, 1990, 2001 respectively. From 1987. to 1996. he was with FER, being involved in different scientific projects, educational activities, and improvements of the educational programs. From 1996. to 2001. he was with the Croatian Ministry of the Interior, working on development and testing of special equipment for police operations and demining. Currently he is employed at his own firm. His research interests include development, test and evaluation of demining equipment, sensors, signal analysis, pattern recognition and mobile robotics.



Željko Ban received B. Sc, M. Sc. and PhD degrees from the University of Zagreb, Faculty of Electrical Engineering and computing in 1985, 1991, 1999 respectively. Between 1985 and 1988 he worked as research fellow at Institute of electrical engineering »R. Koncar« in Zagreb. Since 1988 he was with the Faculty of Electrical Engineering, University of Zagreb. His current position is assistant professor at Department of

Control and Computer Engineering in Automation, Faculty of Electrical Engineering and Computing, University of Zagreb. Since 1988, Z. Ban was involved in several scientific projects financed by Ministry of science and technology of Republic of Croatia. The projects were concerned on adaptive and optimal control of the electrical drives and intelligent and adaptive control of the systems. His educational activities were connected to the courses concerned on automatic control, automatic control of the production processes, industrial robots, analog and hybrid technology and modelling and simulation of the processes. His research interest are adaptive control and application of the adaptive control to the industrial processes, robotics and modelling and simulation of the processes of the automatic control.



Mato Baotić was born in Brčko, Bosnia and Herzegovina in December 1973. He received the B.Sc. and M.Sc. degree in electrical engineering from the Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia, in February 1997 and October 2000, respectively. Since 1997 he is a research assistant at the Department of Control and Computer Engineering in Automation at the Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia. Currently he is a PhD student at the Automatic Control Lab, ETH, Zürich, Switzerland. His research interests include modeling and system identification, neural networks, hybrid systems and model predictive control.



Domingo Biel received the Ingeniero de Telecomunicación and Doctor Ingeniero de Telecomunicación degrees from the Universitat Politècnica de Catalunya, Barcelona, Spain, in 1994 and 1999, respectively. He is currently Associate Professor in the Departamento de Ingeniería Electrónica at the Escuela Universitaria Politècnica de Vilanova i la Geltrú., Universitat Politècnica de Catalunya, where he teaches power electronics. His research interest include power electronics and nonlinear control.



Xavier Blasco is a lecturer in the Department of Systems Engineering and Control of the Technical University of Valencia (Spain). He has a B.Sc. and a Ph.D. degree from the same university, and a B.Sc. from the École Supérieure d'Electricité (SUPELEC, France). He has published several papers in conference proceedings. He is member of the European Human Capital and Mobility network devoted to nonlinear

and adaptive systems research. His research interests are applied adaptive control, predictive control and genetic algorithms applied to the climate control of greenhouses.



Martin Dadić was born in 1970 in Split, Croatia. He received Dipl. Ing., Mr. Sc. and Dr. Sc. (Ph.D.) degrees in electrical engineering from the Faculty of Electrical Engineering and Computing, University of Zagreb in 1994, 1997 and 2000, respectively. Dr. Dadić is senior assistant at the Department of Electrical Engineering Fundamentals and Measurements of the same Faculty. His main research

interest is in the area of signal processing and its applications on noise canceling, measurements and modeling.



Stephen J. Dodds received a BSc (Hons) in Electrical Engineering in 1967, an MSc in Systems Engineering in 1970 and a PhD in the Control of Flexible Spacecraft in 1985. He spent 13 years as an attitude and orbit control systems engineer on European space programmes and originated new spacecraft attitude control systems, including Europe's first to be digitally implemented. In 1985 he was appointed Reader in Control Engineering at the University of East London (UEL) and subsequently expanded his control systems research to encompass electrical drives as well as continuing work on spacecraft control. In 1995, he occupied the Chair of Control Systems Engineering at UEL and in 1997 was made an Academician of the Academy of Non-linear Sciences of Russia. His general research interests encompass robust control techniques and feedback linearisation, which has resulted in the recent innovations in drive control systems falling under the general heading of »forced dynamic control«.

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Prof. Ing. Ivo Doležel, CSc. was born in 1949. After finishing his studies in 1973 he started working with the Institute of Electrical Engineering of the Academy of Sciences of the Czech Republic. He worked in the Department of the Theory of Electromagnetic Fields and in 1993 he was appointed the Director of the Institute. He is interested in electromagnetic field and coupled problems in heavy current engineering, electromagnetic compatibility and special electric machines. Author or co-author of about 150 papers.

magnetic compatibility and special electric machines. Author or co-author of about 150 papers.



Gorislav Erceg was born in Vrgorac, Croatia on January 15, 1942. He received his BSEE, MSEE and Ph.D. degrees from University of Zagreb, Faculty of Electrical Engineering and Computing in 1967, 1975 and 1996, respectively. He joined dockyard Brodo-Split in Split, Croatia (1965) working in the Project Engineering Group. In 1966 at the Faculty of Electrical Engineering and Computing, Zagreb, Croatia he started as

an assistant of Fundamentals of Electrical Engineering. Today as a head of the Department of Electric Machines, Drives and Automation and as an Assistant Professor he teaches undergraduate and graduate students. Also, Mr. Erceg is a project leader of several industrial and government projects. He authored and coauthored numerous technical papers and studies in Control Engineering field, and is a member of IEEE Industrial Electronics Society, IEEE Power Society, KoREMA Society and Croatian Electric Engineering Society. For his work presented in his Master's and Ph.D. thesis, numerous papers and studies he received three awards.



Romina Erceg was born in Zagreb, Croatia on August 26, 1971. She received her BSEE and MSEE degrees from University of Zagreb, Faculty of Electrical Engineering and Computing in 1995 and 1998, respectively. She was research assistant at the Faculty of Electrical Engineering and Computing (1995-2000) where she was involved with mathematical modeling and computer simulation of isolated electric power systems, and

actual laboratory testing to verify the results. Currently she is a planning engineer with the Croatian Utility Company, and her responsibilities include distribution and sub-transmission system planning. Mrs. Erceg authored and coauthored 14 technical papers on Synchronous Generators, Excitation Systems and Voltage Controllers. She is a member of IEEE Industrial Electronics Society.



Enric Fossas received the Graduate and the Ph. D. degrees in Mathematics from Barcelona University in 1981 and 1986 respectively. Since 1981 he taught mathematics in Universitat de Barcelona and mathematics and automatic control in Universitat Politècnica de Catalunya where he is employed as an assistant professor. His research interest are in the field of Nonlinear Systems and Mathematical Control Theory.



Gerhard Geiger received his M.Sc. and Ph.D from the Department of Electrical Engineering, University of Darmstadt, Germany in 1979 and 1985 respectively. From 1979 to 1985 he was a researcher of the Institute of Process Control and Automation at the University of Darmstadt, from 1985 to 1995 the managing director of MAGNUM, Darmstadt with business areas Pipeline leak detection systems, Automatic test systems, Simulation and automation, Industrial vision systems. His responsibility was R&D of Pipeline leak detection systems (System development, product management, distribution). Since 1995 he is Professor of Industrial Communication at the University of Applied Sciences, Gelsenkirchen, Germany. His current research activities are Technical Diagnostic Methods, Model-based leak detection systems for pipelines, distributed process control systems, SCADA.

test systems, Simulation and automation, Industrial vision systems. His responsibility was R&D of Pipeline leak detection systems (System development, product management, distribution). Since 1995 he is Professor of Industrial Communication at the University of Applied Sciences, Gelsenkirchen, Germany. His current research activities are Technical Diagnostic Methods, Model-based leak detection systems for pipelines, distributed process control systems, SCADA.



Darko Grundler je rođen 1949. godine u Zagrebu, gdje je završio osnovnu školu, gimnaziju i Elektrotehnički fakultet. 1976. je magistrirao na Elektrotehničkom fakultetu, a 1997. doktorirao na Fakultetu elektrotehnike i računalstva u Zagrebu. Oženjen je i otac jedne kćeri, a živi u Kutini. Na početku karijere je radio kao srednjoškolski profesor u Kutini, tehnički direktor tvornice SELK u Kutini, a posljednjih deset godina radi kao

predavač i docent na Tekstilno tehnološkom fakultetu Sveučilišta u Zagrebu. Autor je više znanstvenih i stručnih radova i knjiga među kojima su srednjoškolski i sveučilišni udžbenici i priručnici. Za knjigu »Osobna računala« dobio je 1993. nagradu za najbolju knjigu iz područja informatike na natječaju časopisa *Infotrend*.

Član je udruga CROSS i EvoNet i više programskih odbora međunarodnih stručnih skupova (npr. GECCO, ICES, FEA). Područje njegovog stručnog i znanstvenog djelovanja je područje računalstva, umjetne inteligencije i posebice primijenjenih evolucijskih algoritama. U slobodno vrijeme bavi se planinarenjem, rekreativnim trčanjem i jahanjem.



Francesc Guinjoan received the Ingeniero de Telecomunicación and Doctor Ingeniero de Telecomunicación degrees from the Universitat Politècnica de Catalunya, Barcelona, Spain, in 1984 and 1990, respectively, and the Docteur es Sciences degree from the Université Paul Sabatier, Toulouse, France, in 1992.

From 1984 to 1995, he taught control theory and analog electronics at the Escuela Universitaria Politècnica

de Vilanova i la Geltrú. He is currently Associate Professor in the Departamento de Ingeniería Electrónica at the Escuela Técnica Superior de Ingenieros de Telecomunicación de Barcelona, Universitat Politècnica de Catalunya, Barcelona, where he teaches power electronics. His research interest include power electronics modeling, nonlinear circuit analysis, and analog circuit design.



Hideki Hashimoto received the BSc, MSc and DrEng degrees in Electrical Engineering from the University of Tokyo, Tokyo, Japan, in 1981, 1984 and 1987, respectively. He is currently an Associate Professor with the Institute of Industrial Science, University of Tokyo. From 1989 to 1990, he was a Visiting Scientist in the Laboratory for Informational and Decision Systems and the Laboratory for Electromagnetics and Electronics

Systems at the Massachusetts Institute of Technology Cambridge, MA, USA. His research interests are in the areas of robotics, control, intelligent transportation, systems, and human-machine interface. He is an active member of the IEEE Industrial Electronics, IEEE Robotics and Automation Societies, and has served on the Administrative Committees of both. He is also a member of the Japanese Society of Instrument and Control Engineering (SICE), Institute of Electrical Engineers of Japan (IEEJ) and Robotics Society of Japan (RSJ).



Alenka Hren received the B.S., M.Sc. and Ph.D. degrees in electrical engineering from the Faculty of Electrical Engineering and Computer Science, University of Maribor, Slovenia in 1987, 1990 and 2001, respectively. Since 1987 she has been employed as Research Assistant at the Faculty of Electrical Engineering and Computer Science in Maribor. In the year 1990 she spend 6 months as a visiting scholar at the Imperial

Collage, London, UK. Her research interests are in the areas of the automatic control and power electronic converters.



Peter Korondi (M'98) received the Dipl.Eng. and Ph.D. degrees in electrical engineering from the Technical University of Budapest, Budapest, Hungary, in 1984 and 1995, respectively. Since 1986, he has been with the Department of Electrical Engineering, Technical University of Budapest. From 1993 to 1995, he was a post-graduate student at the University of Tokyo, Tokyo, Japan. His research interests include power

electronics and motion control. Dr. Korondi is a member of the Japanese Society of Instrument and Control Engineers (SICE).



Mladen Maletić rođen je 1943. godine u Bjelovaru, Hrvatska. Diplomirao je, magistrirao i doktorirao na Fakultetu elektrotehnike i računarstva u Zagrebu (1970., 1975., 1992.). Od 1970. godine radi kao asistent na Zavodu za elektroakustiku Fakulteta elektrotehnike i računarstva. 1998. godine postaje docent na grupi predmeta Akustika i Elektroakustika. Od 1998. godine predaje predmete Elektroakustički signali i sustavi, Bu-

ka i vibracije i Govorna i glazbena akustika. Trenutačno je Predstojnik Zavoda za elektroakustiku. Znanstvenu i stručnu djelatnost obavlja na području Projektiranja akustički obrađenih prostora, Predviđanja i mjerenja buke i vibracija, Razvoja elektroakustičkih mjernih metoda i signala. Autor je više od 20 znanstvenih i stručnih radova. Član je stručnih udruženja AES-a, KoREMA, HAD-a i CROMBESA-a.



Drago Matko received his B.Sc., M.Sc., and Ph.D. in electrical engineering in 1971, 1973 and 1977 respectively, from the University of Ljubljana, Slovenia for work in the field of Adaptive control systems. He is a professor of Discrete control systems, Computer controlled systems, Identification and Computer aided design of control systems on the Faculty of Electrical Engineering, University of Ljubljana. He visited

the Institute for Control Engineering Darmstadt, Germany several times, from 1980–82, 1984, 85 and 86 as a Humboldt fellow, from 1987–91 in the frame of the project Adaptive control systems sponsored by International Bureau KFA Jülich. In 1995–96 he was visiting as Foreign Research Fellow the

Institute of Space and Astronautical Science in Sagami-hara Kanagawa, Japan for 9 months. He has published seven journal articles, more than 150 conference papers and four student edition books (in Slovene). He is co-author of two books published by Prentice Hall. 1989 he received the award of Slovenian ministry for research and technology for his work in the field of computer aided design of control systems.



Miguel Martinez is a professor in the Department of Systems Engineering and Control of the Technical University of Valencia (Spain). He has a B.Sc. and a Ph.D. degree from the same university. He has three years of industrial experience in control engineering in cement plants. He has published several papers in conference proceedings. His research interests are applied adaptive control, predictive control, fuzzy logic,

expert systems, neural networks and genetic algorithms. He is member of the European Human Capital and Mobility network devoted to nonlinear and adaptive systems research. During part of 1994 he worked at the Department of Engineering Science of Oxford University (UK) in a new research area: genetic predictive control.



Marcello Montanari was born in Ravenna, Italy, on August 25, 1974. He received the »Laurea« degree in Computer Science Engineering from the University of Bologna, Italy, in 1999. He is presently a Ph.D. student in Automatic Control at the DEIS (Dept. of Electronics, Computer Science and Systems), University of Bologna. His research interests are in the field of applied nonlinear controls, especially with appli-

cations to electric drives and automotive systems.



István Nagy graduated from the Technical University (TUB), Budapest, Hungary, in 1953. He received the Ph.D. degree from the same university in 1960. He has been associated with the Institute of Automation and Computation of the Hungarian Academy of Science since 1960, and Headed the Department of Power Electronics there for 15 years. He became a full professor at the TUB in 1975 and he was the Head of the

Department of Electrical Engineering. He was visiting professor at universities in Canada, Germany, India, Italy, Japan, New Zeland and U.S.A. Currently he is head of an education and research team. His research interest is power electronics, motion control and nonlinear dynamics. He is author or co-author of 13 textbooks, near 200 technical papers, and 13 patents.

Dr. Nagy is member of the Hungarian Academy of Sciences, IEEE Fellow, and member of the Hungarian IEE, chairman of EPE-PEMC Council and member of EPEEC.



Ioannis K. Nikolos received the diploma degree in Mechanical Engineering from the National Technical University of Athens (N.T.U.A.) in 1990, and the Ph.D. degree in Fluid Mechanics (Lab. of Thermal Turbomachines) from the Mechanical Engineering Department of N.T.U.A. in 1996.

He is an adjunct Assistant Professor with the Department of General Science and the Department of Produc-

tion Engineering and Management, Technical University of Crete, Chania, Greece. His research interests are in the fields of Fluid Mechanics, Turbomachines, Optimization and Artificial Intelligence. Dr. Nikolos is a member of the Technical Chamber of Greece and the Greek Society of Mechanical Engineers. His research has been funded by the European Union and the Hellenic GSRT.



Professor Nedjeljko Perić (1950) graduated from the Faculty of Electrical Engineering at the University of Zagreb in 1973. He won a master's degree at the same Faculty in 1980 and a doctor's degree in 1989. From 1973 to 1993 he had been working at the Institute of Electrical Engineering of the company »Končar«. First ten years as a R&D engineer, then eight years as a Head of Positioning Systems Department and

two years as a Manager of the Automation Section. Since 1993 he has been employed as an Associate Professor at the Faculty of Electrical Engineering and Computing at the University of Zagreb at the Department of Control and Computer Engineering in Automation. From 1996 to 1998 he was the Head of the Department and from 1998 to 2000 he was Vice Dean for scientific affairs. Since 2000 he has been again the Head of Department. He was appointed as a full professor in 1997. He is also a visiting professor at Faculty of Electrical and Mechanical Engineering and Naval Architecture in Split and at Faculty of Electrical Engineering in Osijek.

Professor Perić was in charge of 25 research and development projects, which were financially supported by state institutions as well as by commercial companies. He is the author or co-author of more than 120 scientific papers published in journals and conference proceedings as well as more than 60 technical reports. In his activities he dealt with a wide range of problems related to research, development and application of controlled electrical drives, as well as complex control systems of various plants and processes. His scientific and research work is particularly remarkable in the areas of process identification and advanced control techniques such as predictive control and neuro-fuzzy control.

He was the chairman of KoREMA, the Croatian Society for Communications, Computing, Electronics, Measurements and Control from 1992 to 1998 and again since 2001. He is the member of board of editors of the Croatian journal *Automatika*. Professor Perić is a Fellow of Croatian Academy of Engineering.



Roy Perryman graduated with a BSc(Hons) in Electrical Engineering in 1969 and gained a PhD in Magnetic materials in 1974. He undertook a student apprenticeship in the power generation industry working with the Central Electricity Generating Board and English Electric Ltd and spent a further 17 years in the electrical and electronics industry working with AFA Minerva (EMI) Ltd, Bowthorpe Controls, and Walter Jones & Co (Engineers) Ltd. He joined the University of Greenwich in 1988 and was subsequently appointed as Head of the School of Electrical & Manufacturing Engineering at the University of East London in 1996. He is a Fellow of the Institution of Incorporated Engineers (IIE) and a Fellow of the Institution of Electrical Engineers (IIEE). His research interests are in the design and control of electrical machines and drive systems, condition monitoring and the application of neural networks.



Ivan Petrović, Ph.D. (1961) is currently an Assistant Professor at the Department of Control and Computer Engineering in Automation at the Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia. He had been working for 10 years at Institute of Electrical Engineering of the company Končar as an R&D engineer for the control of industrial plants. His current research interests include methodology of neural networks and fuzzy logic and their applications to modeling and control of complex systems and to mobile robots navigation. He is author or co-author of 7 journal papers and more than 40 conference papers. He has actively participated in 10 domestic research and development projects, which were financially supported by state institutions as well as by commercial companies, and in 2 international projects.



Rafael Ramos received the Ingeniero de Telecomunicación degree from the Universitat Politècnica de Catalunya, Barcelona, Spain, in 1996. He is currently Associate Professor in the Departamento de Ingeniería Electrónica at the Escuela Universitaria Politècnica de Vilanova i la Geltrú., Universitat Politècnica de Catalunya, where he teaches digital control. His research interest include power electronics and digital control.



Tomislav Rolich rođen je 22. travnja 1971. godine u Zagrebu gdje 1985. godine završava osnovnu školu »Rudi Čajavec«. Te iste godine upisuje srednju školu COUO »Ruđer Bošković« koju završava 1989. godine. Elektrotehnički fakultet Sveučilišta u Zagrebu upisuje te iste godine te odlazi na odsluženje vojnog roka. 1990. godine započinje studij koji 1995. godine završava. Diplomirao je na Fakultetu elektrotehnike i računarstva Sveučilišta u Zagrebu smjer industrijska elektronika temom »Bikvartne sekcije sa strminskim pojačalima« pod

mentorstvom prof. dr. sc. Nevena Mijata. U siječnju 1995. godine, za vrijeme studija, zapošljava se u tehničkoj školi »Ruđer Bošković« kao stručni suradnik te kasnije kao nastavnik. U listopadu 1998. godine zapošljava se na Tekstilno tehnološkom fakultetu Sveučilišta u Zagrebu kao mlađi asistent na Zavodu za odjevnu tehnologiju i upisuje poslijediplomski studij na Fakultetu elektrotehnike i računarstva Sveučilišta u Zagrebu. Magistrirao je u studenom 2002. godine na Fakultetu elektrotehnike i računarstva Sveučilišta u Zagrebu temom »Vrednovanje primjene evolucijskih algoritama pri ostvarenju optimalnog vođenja« pod mentorstvom dr. sc. Darka Grundlera. Objavio je četiri rada, održao jedno izlaganje na međunarodnom skupu i koautor je sveučilišnog priručnika.



José Vicente Salcedo is a lecturer in the Department of Systems Engineering and Control of the Technical University of Valencia (Spain). He has the industrial engineer degree from the same university. He has published several papers in conference proceedings. His research interests are applied adaptive control, nonlinear control and predictive control.



Javier Sanchis received the B.Sc. degree in computer science from the Technical University of Valencia (Spain). He is presently a lecturer of control engineering at the Department of Systems Engineering and Control. He has published several papers in conference proceedings and his research interests include multivariable predictive control and identification.



Branko Somek received B.Sc. and Ph.D. in Electrical Engineering from the University of Zagreb, Croatia in 1959 and 1972, respectively. He is with the Faculty of Electrical Engineering and Computing of the University of Zagreb where he works as a professor at the Department of Electroacoustics. He was vice-dean and head of the Department of Electroacoustics.

His research interests include acoustics, electroacoustics, audio electronics, noise and vibration control, receivers and communications.

Dr. Somek led several research and development projects in these areas, for example acoustic signal processing in communications. He is involved in research in the field of audiology and musical acoustics. He has published a number of papers in journals and conference proceedings in Croatia and abroad. During his career he was project leader in development of systems and equipment for domestic and foreign firms and institutions: RIZ, Iskra, Siemens, Končar, BI, HRT, Croatian Telecom, Croatian Parliament, concert and athletic halls, hospitals.

He organized or took part in organization of domestic and international congresses and symposia (ICA, F.A.S.E., KoREMA, ETAN, ELMAR, IACB). He is member of DAGA, ASA, SNVC, KoREMA, HAD and IEEE. Dr. Somek is president of Audio Engineering Society of Croatia (AES Croatia) and People to People Croatia. He is a member of »Manufacturing

Sciences« committee of Croatian Academy of Sciences and Arts and secretary of the Department for Electrical Engineering and Electronics of Croatian Academy of Engineering.



Peter T. Szemes received the M.S. degree in mechanical engineering from Budapest University of Technology and Economics, Budapest, Hungary, in 2000. He is currently working toward the Ph.D. degree at University of Tokyo, Tokyo, Japan. His research interest mechatronics systems, real time computer control and teleoperation.



Ing. Jiří Škramlík (1956) finished his studies at the Faculty of Electrical Engineering of ČVUT in Prague in 1982 and joined Elektromontážní závody in Prague as a design engineer. Since 1985 he had been working in the State Research Institute of Materials. In 1993 he joined the Institute of Electrical Engineering as a research engineer. He deals with problems of the pulse width modulation in the voltage inverters for induction

motors and utilization of the signal processors. Author or co-author of about 25 papers and 4 patents.



Andrea Tilli was born in Bologna, Italy, on April 4, 1971. He received the Dr. Ing. degree in electronic engineering from the University of Bologna, Italy, in 1996. On February 29, 2000 he received the Ph.D. degree in system science and engineering from the same university with a thesis about nonlinear control of standard and special asynchronous electric machines.

Since 1997, he has been at the Department of Electronics, Computer and System Science (DEIS) of the University of Bologna. On July 2000, he won a research grant from the above department about the modeling and control of complex electromechanical systems. Starting from October 1st, 2001 he is Research Associate at DEIS. His current research interests include applied nonlinear control techniques, adaptive observers, variable structure systems, electric drives, automotive systems, active power filters and DSP-based control architectures.



Nikola Tonković was born in Zagreb, Croatia in 1971. He graduated from Faculty of Electrical Engineering and Computing in 1996. From 1996 to 1999 he worked in Elektroprojekt Consulting Engineers d.d, Zagreb, Croatia as an junior project engineer in Hydro Power Plants Section of Electromechanical Engineering Department. He was team member on several power plants projects and studies. Since 1999 he

has been working as an assistant at Department of Electric Machines, Drives and Automation at Faculty of Electrical Engineering and Computing, Zagreb. His major research interests are control systems in industry and power plants.

Nikos C. Tsourveloudis received the diploma and Ph.D. degrees in production engineering and management from the Technical University of Crete, Chania, Greece, in 1990 and 1995, respectively. From 1992 to 1995 he was President of the Hellenic Association of Industrial Engineers. During the academic years 1997 and 1998, he was a visiting research scientist at the Center for Advanced Computer Studies (CACs) and the Apparel-Computer Integrated Manufacturing Center (A-CIM) of the University of Louisiana at Lafayette, Louisiana, USA. Currently, he is an Assistant Professor at the Department of Production Engineering and Management and Director of the Machine Tools Laboratory at the Technical University of Crete.

His research interests are in the areas of Intelligent Control, Modeling and Scheduling of Flexible and Computer Integrated Manufacturing Systems, Autonomous Operation/Navigation of Uninhabitant Vehicles, Virtual Reality and Fuzzy Logic applications. Dr. Tsourveloudis was the recipient of the Best Student Paper Award of the 7th International Symposium on Manufacturing with Applications, World Automation Congress, Anchorage, Alaska, in 1998.

He is member of numerous professional and scientific organizations. His research has been funded by the NSF, the LEQSF, and currently by the Hellenic GSRT.

Kimon P. Valavanis received the Diploma in Electrical Engineering from the National Technical University of Athens, Athens, Greece in 1981, and the M.Sc. and Ph.D. degrees in Electrical Engineering, Computer and Systems Engineering from Rensselaer Polytechnic Institute, Troy, NY, in 1984 and 1986, respectively.

Currently he is a professor at the Department of Production Engineering and Management and Director of the Intelligent Systems and Robotics Laboratory, Technical University of Crete, Greece.

His research interests are in the areas of robotics, automation, and distributed intelligence systems. He has published more than 200 technical papers, book chapters, and technical reports. He has been the general chair and the program chair of IEEE conferences and symposia, and an editor of several conference proceedings. He is also an Editor-in-Chief of the IEEE Robotics and Automation Magazine. Dr. Valavanis is a Senior Member of IEEE.



Prof. Ing. Viktor Valouch, CSc. (1947) graduated from the Faculty of Electrical Engineering in Prague (Czech Technical University) in 1972 and after receiving the degree Ph.D. (1976) he started to work with the Institute of Electrical Engineering (Academy of Sciences of the Czech Republic) in 1977. Now he is the head of the Department of Power Electronics.

Aimed at the microprocessor-based control systems, variable speed ac drives, static inverters and problems connected with active and passive filters. Author or co-author of about 100 papers in scientific journals and conference proceedings and 3 patents.

Jan Vittek graduated from the Technical University of Transport Zilina, Slovakia in 1966. He received his Ph.D. degree from the same university in 1979. After two years service in Czecho-Slovak Railroads he joined Faculty of Electrical Engineering of the University of Zilina. In 1997 he became a Professor for »Electric Traction and Electric Drives«. He is responsible for the development of Electric Drives division in the department of Electric Traction and Energetic. In 1998 he was appointed to the position of Visiting Professor of the School of Electrical and Manufacturing Engineering, University of East London, UK as the reflection of long-term research co-operation. His research interests are electronic energy conversion, control of electric drives, electric traction (including locomotive drives and traction power supply) and applied control. He is a member of »International Association of Science and Technology for Development« (IASTED) committees on »Control« and »Energy and Power Systems«.



Thomas Werner received the B.Sc. Degree in Electrical Engineering from University of Applied Sciences Gelsenkirchen in 1999. He is employed on the Department of Electrical and Electronic Engineering at the University of Applied Sciences Gelsenkirchen. His area of research is focused on the development and the application of leak detection systems for pipelines.



Mario Žagar received Dipl.ing., M.Sc.CS and Ph.D.CS degrees, all from the University of Zagreb, Faculty of Electrical Engineering and Computing (FER) in 1975, 1978, 1985 respectively. In 1977 joined FER and since then was involved in different scientific projects, educational activities, improvements of the educational programs, laboratories and computer equipment at the

FER. He received British Council fellowship (UMIST – Manchester, 1983) and Fulbright fellowship (UCSB – Santa Barbara, 1983/84). He is the professor at the chair Computer Systems and Processes (RASIP), guest professor at the Medical School, University of Zagreb (Postgraduate education in Medical Informatics), Computers – architecture and functioning), and Head of the computing facilities at FER. In the academic years 94/95, 95/96 he was vice-dean at the FER. His professional interests include computer architectures, real-time microcomputer systems, distributed computing and distributed measurements/control (every box must have two connectors – one for power cord and the other for networking), design automation, open computing, Java World, UNIX operating system, and multimedia.

Biografski podaci za jedan dio naših autora u 2000. i 2001. godini dani su u prijašnjim brojevima časopisa *Automatika*. Radi se o sljedećim autorima:

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Franc Mihalic	(3–4/1999)
Miro Milanovic	(3–4/1999)
Viktor Šunde	(3–4/2000)