

## naši autori



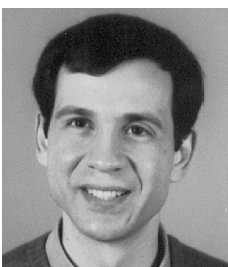
**António Almeida** received the B.Sc. degree (Licenciatura) in Electrical and Computer Engineering with emphasis in Telecommunications from the University of Coimbra in 2005. He has been interested in the area of robotics and automation, with publications at two IEEE conferences where he received one best paper award. He has working experience as a software engineer at the Critical Software Company. He is now

working at PT Inovação Company of Portugal Telecom group in hardware developments.



**Jorge Almeida** received the B.Sc. degree in Electrical and Computer Engineering with emphasis in Automation and Robotics from the University of Coimbra in 2004. Presently, he is studying for the Masters in Robotics and Automation in the same university. He has been interested in the area of robotics and automation, where he has several publications, including publications at two IEEE conferences, where he

received one best paper award (ETFA 05). Presently, he works as a software and hardware engineer at the Critical Software Company in the defense area, building real-time applications for critical systems.



**Rui Araújo** received the B.Sc. degree (Licenciatura) in Electrical Engineering, the M.Sc. degree in Systems and Automation, and the Ph.D degree in Electrical Engineering from the University of Coimbra in 1991, 1994, and 2000 respectively. He joined the Department of Electrical and Computer Engineering of the University of Coimbra where he is currently an Assistant Professor. He is a founding member of

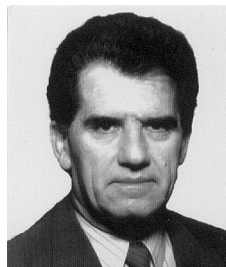
the Portuguese Institute for Systems and Robotics (ISR – Coimbra), where he is now a researcher. Dr. Araújo was the Information Technologies Chair on the »The 11<sup>th</sup> International Conference on Advanced Robotics (ICAR-2003)«. His research interests include learning and intelligent systems, sensor-based mobile robot navigation, fuzzy systems, and

neural networks, and in general architectures and systems for controlling robot manipulators, and for controlling mobile robots.



**Antoni Arias** was born in Barcelona, Catalonia, in 1969. He received the BEng degree in electrical engineering and MEng degree in control and industrial electronic engineering from the Universitat Politècnica de Catalunya, Spain, in 1993 and 1997, respectively. In 2001, he received the PhD degree at the same University. From 1995 to 1997 he was part-time lecturer at the Universitat Politècnica de Cata-

lunya. Since 1997 he has been a full-time lecturer at the same University and was appointed as a Senior Lecturer on 2002. In 1999 he was a visiting research assistant and part-time lecturer at the University of Glamorgan, U.K. In 2003 and 2004 he joined the Power Electronics, Machines and Control Group at the University of Nottingham, UK, as a Visiting Fellow. His research interests are motor drive systems, control in power electronics converters and modulation strategies.



**Drago Ban** received the B.S., M.S. and Ph.D. degrees in electrical engineering from the Faculty of Electrical Engineering, University of Zagreb, Croatia in 1965, 1975 and 1987 respectively. He is currently a full Professor at the Department of Electrical Machines Drives and Automation, Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia. From 1968 till 1989 he worked as a development

and project engineer in KONCAR – Electrical Industry, Zagreb, Croatia. His scientific and professional activities have been related to the field of electrical machinery, electrical drives and technical diagnostics. Professor Ban is a member of Editorial Board of the several professional journals, a member of IEEE association and a regular member of Croatian Academy of Engineering. He was the chairman or co-chairman of several international conferences on electrical drives and power electronics. In 2002 he was a general chairman of 10<sup>th</sup> International Power Electronics and Motion Control Conference, EPE-PEMC 2002, 9-11. Sept. Dubrovnik, Croatia.

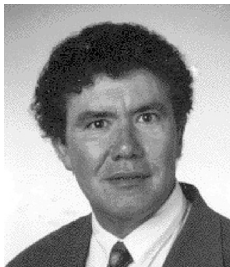


**Marijan Bogut** was born in 1964. He received the B.S.E.E. and M.S.E.E. degrees at the University of Zagreb, Croatia, in 1989 and 1994 respectively. Since 1989 he has been working at Končar – Electrical Engineering Institute, actually as a head of Vibroacoustical laboratory in Rotating Machines Department. He works on noise and vibration measurements for diagnostic and certification purposes. His

research activities are related to diagnostic testing of rotating machinery while in operation.



**Mišel Brezak** received his B.Sc. degree from the Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia, in 2001. Upon graduation he joined the Department of Control and Computer Engineering in Automation at the same faculty, where he is currently working towards M.Sc. degree. His research activities are oriented to mobile robotics and computer vision.



**Gérard-André Capolino** (A'77, M'82, SM'89, F'02) received the BSc in electrical engineering from Ecole Supérieure d'Ingénieurs de Marseille, Marseille (France) in 1974, the MSc from Ecole Supérieure d'Electricité, Paris (France) in 1975, the PhD from University Aix-Marseille I, Marseille (France) in 1978 and the D.Sc. from Institut National Polytechnique de Grenoble, Grenoble (France) in 1987. In 1978, he joined

the University of Yaoundé (Cameroon) as an Associate Professor and Head of the Department of Electrical Engineering. From 1981 to 1994, he has been Associate Professor in University of Dijon, Dijon (France) and the Mediterranean Institute of Technology, Marseille (France) where he was founder and Director of the Modelling and Control Systems Laboratory. From 1983 to 1985, he was visiting Professor at University of Tunis (Tunisia). From 1987 to 1989, he was the scientific advisor of the Technicatome SA company, Aix-en-Provence (France). In 1994, he joined the University of Picardie »Jules Verne« in Amiens (France) as a Full Professor, Head of the Department of Electrical Engineering (1995–1998) and Director of the Energy Conversion & Intelligent Systems Laboratory (1996–2000). He is now director of the Graduate School in Electrical Engineering at the University of Picardie »Jules Verne« (Amiens, France). In 1995, he was a Fellow European Union Distinguished Professor of Electrical Engineering at Polytechnic University of Catalunya (Barcelona, Spain). Since 1999, he has been the Director of the Open European Laboratory on Electrical Machines (OELEM), a network of excellence in between 50 partners from the European Union. Professor Capolino has published more than 250 papers in scientific journals and conference proceedings since 1975. He has been the advisor of 13 PhD and numerous MSc students. In 1990, he has founded the European Community Group for teaching electromagnetic transients and he has co-authored the book *Simulation & CAD for Electrical Machines, Power Electronics and Drives*, ERASMUS Program Edition.

His research interests are electrical machines, electrical drives power electronics and control systems related to power electrical engineering. Professor Capolino is the chairman of the France Chapter of the IEEE Power Electronics, Industrial Electronics and Industry Applications Societies and the vice-chairman of the IEEE France Section. He is also member of the AdCom of the IEEE Industrial Electronics Society. He is the co-founder of the IEEE International Symposium for Diagnostics of Electrical Machines Power Electronics and Drives (IEEE-SDEMPED) that was held for the first time in 1997. Professor Capolino is a member of steering committees for several high reputation international conferences. Since November 1999, he has been Associate Editor of the IEEE Transactions on Industrial Electronics.



**Domenico Casadei** (SM'04) received the »Laurea« degree, with honors, in electrical engineering from the University of Bologna, Bologna, Italy, in 1974. He joined the Electrical Engineering Department, University of Bologna, in 1975. He is currently Professor of Electrical Drives. His scientific work is related to electrical machines and drives, linear motors, and power electronics. He has published extensively in

technical journals and conference proceedings. His present research interests include direct torque control of induction motors, brushless motors, matrix converters, and power quality. Dr. Casadei is a member of the IEEE Industrial Electronics and IEEE Power Electronics Societies and the Italian Electrotechnical and Electronic Association (AEI). Since 1994, he has been a member of the international editorial board of the international journal *Electromotion*. He is a Registered Professional Engineer in Italy.



**Giansalvo Cirrincione** received his »laurea« degree in Electrical Engineering from the Politecnico of Turin in 1991. In 1998 he has received the Ph.D degree from the Laboratoire d'Informatique et Signaux (LIS) de l'Institut National Polytechnique de Grenoble (INPG), France, with the congratulations of the jury. He spent a year of post-doc at Leuven University at the Department SISTA in 1999 and since 2000 he

has been assistant professor at the University of Picardie – Jules Verne, Amiens, France. His current research interests are neural networks, data analysis, computer vision, brain models and system identification.



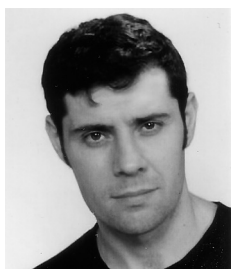
**Maurizio Cirrincione** received his »laurea« degree in Electrical Engineering from the Politecnico of Turin in 1991. In 1996 he received the Ph.D. degree in Electrical Engineering from the University of Palermo. In 1997 he was awarded the prize »E. R. Caianiello« for the best Italian PhD thesis on neural networks. Since 1996 he has been a researcher at the Section of Palermo of I.S.S.I.A.–C.N.R. (Institute

on Intelligent Systems for the Automation), Italy. Since

September 2005 he has been professor at the at the University of Belfort, France. His current research interests are neural networks for modelling and control, system identification, intelligent control, electrical machines and drives.



**Neven Čobanov** was born in Zagreb, Croatia. He received the B.Sc. degree in electrical engineering from University of Zagreb in 1978. From 1978, he is with Electrical Institute Končar where he is working on development of power supplies, high frequency magnetic components and IGBT drive circuits. His main research interests include IGBT switch, soft switching, high power DC-DC converters and related applications in traction.



**Dr. -Ing. Robert Cupec** graduated at the Faculty of Electrical Engineering, University of Zagreb in 1995, where he received the M.Sc. degree in 1999. Upon graduation he joined the Department of Control and Computer Engineering in Automation, University of Zagreb, where he was employed until 2000. From 2000 to 2004 he is working at the Institute of Automatic Control Engineering, Technische Universität München where he received the Ph.D. degree in 2005. Currently, he is employed as a teaching and research assistant at the Faculty of Electrical Engineering, University of Osijek, Croatia. He is co-author of 15 scientific papers published in the proceedings of international conferences. His main research interests are in robot vision and intelligent control.



**Marin Despalatović** was born in Split, Croatia, in 1976. He received the B.S. degree in electrical engineering from the Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Split, Split, Croatia, in 2000. Since 2001 he has been in the Department of Electrical Power Engineering at the University of Split as a Research Assistant. He is currently working toward a Ph.D. degree in electrical engineering. His research interests include electrical machines and drives, in particular, parameter estimation of synchronous and induction machines.



**Karl H. Edlmoser** was born 1960 in Vienna, Austria. He received the Dipl.-Ing. (M.Sc.) and Dr. (Ph.D.) degrees from the Technical University Vienna (TU Wien) Austria in 1989 and 1996. Since 1990 he has been a researcher at the Power Electronics Department of TU Wien working on solar converters and instrumentation on different projects for Austrian industrial companies. He is author of various technical and scientific papers.



**Xavier del Toro Garcia** received the degrees of Technical Engineer in Electronics and Engineer in Control and Industrial Electronics in 1999 and 2002, respectively, from the Universitat Politècnica de Catalunya (UPC), Catalonia, Spain. Since November 2002 he is a research student and part-time lecturer at the School of Electronics in the University of Glamorgan, Wales, United Kingdom. At the moment he is a

Marie Curie Research Fellow at the Politecnico di Bari, Italy. His research interests include motor drive systems, Direct Torque Control and multilevel converters.



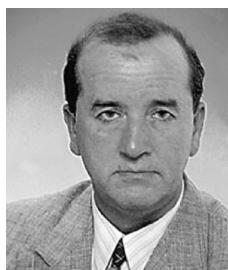
**Felix A. Himmelstoss** was born in 1956 in Mödling, Austria. He received the Dipl.-Ing. and Dr. degrees from Technical University of Vienna, in 1981 and 1990, respectively. Since 1982 he has been working on different projects for Austrian companies developing power supplies and electrical drives. He is author of numerous technical and scientific papers and patents. Dr. Himmelstoss is professor and head of the

Energy and Industrial Electronics department of the University of Applied Science Technikum Wien.



**Don-Ha Hwang** was born in TaeGu city, Korea, in 1967. He received the B.S., M.S. and Ph.D. degrees in Electrical Engineering from Yeungnam University, Kyongsan, Kyungbuk, Korea, in 1991, 1993, and 2003, respectively. Since 1993, he has been with the Industry Applications Research Laboratory, Korea Electrotechnology Research Institute (KERI), Korea, as a senior researcher. His main research interests

are design, analysis, monitoring, and diagnosis of rotating machines.



**Martin Jadrić** received the B.S. degree in electrical engineering from the University of Split, Split, Croatia, and the M.S. and Ph.D. degrees from the University of Zagreb, Zagreb, Croatia, in 1964, 1970, and 1976, respectively. After completing his graduate studies, he joined Končar Company, Zagreb, Croatia. Since 1996, he has been with the Faculty of Electrical Engineering, Mechanical Engineering and Naval

Architecture, University of Split, first as an Assistant (through 1978), then as an Associate Professor (1978–1984), and currently as a Full Professor. During his career with the university, he has been responsible for the electric machines and drives curriculum, was the Head of the Department of Electric Power Engineering and, from 1980 to 1983, he was the Dean of the Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture. He has been involved in numerous government- and industry-sponsored projects in the areas of electrical machines and drives, and

has authored more than 50 published technical papers and one book, *Dynamics of Electrical Machines* (Zagreb, Croatia: Graphis, 1997) (in Croatian).



**Járdán, Rafael Kálmán** graduated in 1961 at the Technical University of Budapest, Faculty of Electrical Engineering. Degrees: Candidate of Technical Science from the Hungarian Academy of Sciences, »Dr. Techn.«, and PhD from the Technical University of Budapest. His field of interest: power electronics in general and static power conversion in inverter-fed induction motor drives and UPS systems, PWM techniques,

renewable energy sources. He published over 100 technical papers and holds 19 patents. Work places: 1961–91: Computer & Automation Institute of the Hungarian Academy of Sciences, 1991–97: Managing Director of »Deltronic« Power Electronics Manufacturing & Development Ltd., 1997 – Associate Professor at Budapest University of Technology and Economics. He is a member of the Hungarian Electrotechnical Association, the IEEE/IAS, the PEMC National Organising Committee. Has a number of decorations among them from the Hungarian Academy of Sciences, the Computer and Automation Institute, the Hungarian Electrotechnical Association. He was awarded five times the Gold Medal for Excellence in Inventions.



**Marcel G. Jayne** received the degrees of BSc (Hons.) and MSc in electrical engineering from the University College of Swansea, UK. Research for the degree of PhD was carried out in the University of Bristol, Bristol, UK. From 1973–1975 he was a research assistant in the electrical engineering at the University of Bristol and from 1975–1978 he was a senior lecturer at the now University of Wales, Newport, where

he taught and researched the topic of power electronic systems. In 1978 he joined the University of Glamorgan, Pontypridd, UK, as a senior lecturer and became a principal lecturer in 1980. Since that time he has been an active researcher in power electronics, electrical drives and active power filters and is the author of more than 70 refereed journal and conference publications in these areas. He has been a member of the Institution of Electrical Engineers, UK and served as a member of a number of IEE professional group committees. He has also served as an IEE representative member on a number of Eurl committees.



**Seiichiro Katsura** received the B.E. degree in system design engineering and the M.E. and Ph.D. degrees in integrated design engineering from Keio University, Yokohama, Japan, in 2001, 2002 and 2004, respectively. From 2003 to 2005, he was a Research Fellow of the Japan Society for the Promotion of Science. From 2004 to 2005, he was a Postdoctoral Fellow of Keio University. Since 2005, he has been

with Nagaoka University of Technology, Nagaoka, Niigata, Japan. His research interests include haptics, motion control and robotics. Dr. Katsura received the Best Paper Award

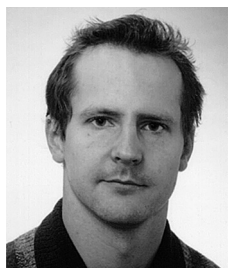
from the Institute of Electrical Engineers of Japan (IEEJ) in 2003 and Yasujiro Niwa Outstanding Paper Award in 2004. He is a Member of the IEEE Industrial Electronics Society, IEEJ, Society of Instrumentation and Control Engineers, the Japan Society for Precision Engineering, and the Robotics Society of Japan.



**Jong-Hae Kim** was born in Ulsan, Korea, in 1968. He received the M.E. and Ph.D. degrees in Electrical Engineering from Yeungnam University, Korea in 1996 and 1999, respectively. He also received the Ph.D. degree in Electrical Engineering, Nagoya University, Japan. His research interests are in the area of resonant inverter, soft switching technology, and virtual reality, hybrid dynamical systems.



**Young-Woo Kim** was born in TaeGu city, Korea, in 1973. He received the B.E. degree in Electrical Engineering from YeungNam University, Korea in 1997, and the M.S. and PhD degrees in Electrical Engineering from Nagoya University, Japan in 2000 and 2004. Since then, he is working for Toyota Technological Institute, Nagoya, Japan. His research interests include hybrid and non-linear systems.



**Gregor Klančar** received his B.Sc. and Ph.D. degrees in 1999, and 2004, respectively, from the Faculty of Electrical Engineering of the University of Ljubljana, Slovenia, where he is currently employed as a researcher. His research interests are in the area of fault diagnosis methods, multiple vehicle coordinated control and robot soccer.

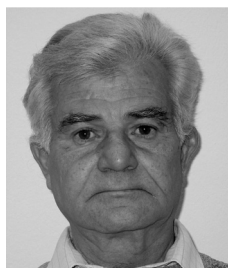


**Ratko Klarić** received the B.S. degree in electrical engineering from the Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Split, Croatia in 1982. From 1973 till 1994 he worked for the power supply company HEP DP Elektroistra Pula, Croatia, as a manager of the Technical division Buzet, and later as a technical manager of the Buzet Branch.

In 1994 he transferred to the water supply company Istarski vodovod d.o.o. Buzet, Croatia where he has been employed as a chartered engineer in the Technical Division. His professional activities have been related to the field of electric power supply, electrical drives and power supply utilities. Mr. Klarić is a member of the Croatian Chamber of Architects and Engineers in Civil Engineering and a member of Electrical Engineering Board. He is also a member of the Croatian Association of Authorized Court Experts. He is currently a president of the RIE Regional Board Council of the Istra County.



**Milan Kovačević** was born in Slunj, Croatia, in 1954. He graduated at Rade Končar Polytechnic in Zagreb in 1973. Since then he has been working in Končar – Electrical Engineering Institute, first as a test engineer in Rotating Machines Department, now as a head of Laboratory for Electronics and Electromotor Drives. He is co-author of a number of studies on electrical machines and published papers.



**Milorad Momić** graduated Electrical Engineering at the University of Split, Croatia, in 1970. Since then he has been working as a test engineer in Končar – Electrical Engineering Institute. From 1973 to 1990 he was a head of Laboratory for Electrical Machines. He works on testing electrical machines in Laboratory for Electronics and Electromotor Drives. He is co-author of a number of studies on electrical machines and published papers.



**Ivan Kurtović** was born in 1942 in Split, Croatia. He graduated Electrical Engineering at the University of Zagreb in 1965. Since then he has been working in Končar – Electrical Engineering Institute on the development of electrical machines. From 1976 to 1990 he was a head of Rotating Machines Department, and from 1996 to 2004 a head of Laboratory for Rotating Machines. His special fields of interest are

oling and diagnostics of electrical machines. He has published a number of studies and papers. He is a member of Croatian Committee CIGRE A1: Rotating machines, and a chairman of the Croatian National IEC Committee ETO2: Rotating Machines.



**István Nagy** has been full professor in the last 30 years at the Budapest University of Technology and Economics. He is member of the Hungarian Academy of Sciences. He has been teaching among others Control, Power, Electrical Drives, Power Electronics, Analog and Digital Electronics. He has traveled extensively all over the world giving courses. He was Visiting professor at University of Madison, Wisconsin, USA; University of Toronto, Toronto, Canada; Indian Institute of Science, Bangalore, India; University La Sapiencia, Rome, Italy; University of Canterbury, Christchurch, New Zealand; University of Tokyo, Japan. He has been head of Department in one of the largest Research Institute in Hungary for 15 years and he was consulting engineer in the biggest and oldest Electrical Factory called Ganz in another 15 years. He published 8 textbooks, 4 handbooks (co-author), near 100 Journal papers, 140 Conference proceeding papers. He holds 13 patents. He together with his colleagues developed among others 4 generations of excitation systems for power plants, voltage regulator system for diesel-electric locomotives, current source and time-sharing high frequency inverters for induction heating and systems for recovering waste energies and utilizing renewable energies. Large number of units have been manufactured and commissioned to domestic and foreign consumers from most of them. He holds a number of awards and prizes among others the highest ranking is the Széchenyi prize, in Hungary handed over by the President, the Prime minister and the President of Parliament of Hungary for the results reached in science and engineering in 2005. In addition to the courses given as visiting professor and conference presentations he had given nearly 100 seminars around the world in Europe, America and Asia mainly in Universities and in a few industries. He is IEEE Fellow, President of the Hungarian CIGRE Committee, Chairman of EPE-PEMC Council, member of IEEE-IES Advisory Committee, member at large of IEEE PES Advisory Committee and member of EPE Executive Council.



**Dr. -Ing. Oliver Lorch** received his diploma degree at the Faculty of Electrical Engineering, Technische Universität München in 1997. Upon graduation he joined the Institute of Automatic Control Engineering, Technische Universität München, where he received his Ph.D. degree in 2003. Currently, he is employed as a development engineer for innovative production technologies in the BMW Group. He is co-author of

17 scientific papers published in the proceedings of international conferences, with a focus on vision guided locomotion of humanoid robots. His main interests are now in mechatronic systems and test technologies for the automotive industry.



**Drago Matko** received his B.Sc., M.Sc. and Ph.D. degrees in Electrical Engineering in 1971, 1973 and 1977, respectively, from the Faculty of Electrical Engineering of the University of Ljubljana, Slovenia for his work in the field of Adaptive Control Systems. Currently he is a professor of the same faculty of discrete control systems, computer controlled systems, identification and computer aided design of control systems. His research is involved with adaptive systems, computer aided design and modern control techniques.



**Milijana Odavić** received the B.S.E.E. degree and the M.S.E.E. degree from the University of Electrical Engineering and Computing, Zagreb, Croatia, in 2000 and 2004, respectively. From 2000 to 2004, she was a Research assistance at the Department of Electrical Machines, Drives and Automation (University of Electrical Engineering and Computing, Zagreb). In

2005, she joined the School of Power Electronics and Machine control, University of Nottingham, Nottingham as a Research fellow. Currently she is working on her Ph.D project of multilevel active power filter. Her fields of interest are digital control technique of power converters, active power filters and power quality.



**Kouhei Ohnishi** received the B.E., M.E., and Ph.D. degrees in electrical engineering from The University of Tokyo, Tokyo, Japan, in 1975, 1977, and 1980, respectively. Since 1980, he has been with Keio University, Yokohama, Japan. His research interests include power electronics, mechatronics, motion control, and robotics. Dr. Ohnishi received Best Paper Awards from the Institute of Electrical Engineers of Japan and the Japan Society for Precision Engineering, and Outstanding Paper Awards at IECON'85, IECON'92, and IECON'93. He also received the EPE-PEMC Council Award and the Dr.-Ing. Eugene Mittelmann Achievement Award from the IEEE Industrial Electronics Society in 2004. He is an IEEE Fellow.



**Olasz Attila** received a Bachelor degree in 2002 at the Budapest Polytechnic, Faculty of Mechanical Engineering in the course of Integrated Engineering. After completing a Master course at Dalarna University, Sweden, in the field of solar energy engineering in 2003, continues his MSc studies in Integrated Engineering at the Budapest University of Technology and Economics. His field of interest: renewable energy sources, and power electronics in general. He started the research in Power Quality Conditioning in 2005 and prepares his Final Project in this field.



**Çağdaş Denizel Onal** is currently a Ph.D. candidate in Carnegie Mellon University, Mechanical Engineering Department, Nanorobotics Laboratory, USA. Previously, he obtained his M.Sc. and B.Sc. from Sabanci University, Electrical Engineering and Computer Science – Mechatronics Engineering Program, Istanbul, Turkey in 2005 and 2003 respectively. His research interests include Micro/Nano (tele)manipulation, bilateral

control, model reference control, nonlinear control, sliding mode, and machine vision.



**Professor Nedjeljko Perić** (1950) graduated from the Faculty of Electrical Engineering at the University of Zagreb in 1973. He received a master degree at the same faculty in 1980 and a doctor degree in 1989. From 1973 to 1993 he worked at »Rade Končar« Institute of Electrical Engineering as a Researcher, Head of Positioning Systems Department and Manager of the Automation Section. Since 1993 he has been employed at the Faculty of Electrical Engineering and Computing of the University of Zagreb, Department of Control and Computer Engineering. Together with his research team he develops methods and structures of advanced control with application in servo drives and numerous process plants. He authored or co-authored over 170 scientific and technical papers published in journals and conference proceedings, and more than 50 reviewed studies. He was in charge of over 20 research projects conducted in cooperation with commercial companies. Over 20 years he is involved in work of national professional associations and for many years he has been president of Croatian Society for Communications, Computing, Electronics, Measurements and Control (KoREMA). He is a member of Editorial Board and Board of Executive Editors of *Automatika* magazine. Professor Perić is a Fellow of Croatian Academy of Engineering.



**Alen Poljungan** (1977) received his M.S.E.E. in 2005 and B.S.E.E. in 2001 at the University of Zagreb, Croatia. From 2001 he works as assistant at the Faculty of electrical engineering and computing (Department of electrical machines, drives and automation). His filed of interests are control of electrical drives and power converters, optimal and robust control of industrial systems and integration structure in complex mechatronic systems. He has been co-author of several papers published at the national and international conferences.



**Marcello Pucci** (M'03) received his »laurea« degree in Electrical Engineering from the University of Palermo (Italy) in 1997 and the Ph.D. degree in Electrical Engineering in 2002 from the same University. In 2000 he has been a host student at the Institut of Automatic Control of the Technical University of Braunschweig, Germany, working in the field of control of AC machines, with a grant from DAAD (Deutscher Akademischer Austauschdienst – German Academic Exchange Service). Since 2001 he has been a researcher at the Section of Palermo of I.S.S.I.A.-C.N.R. (Institute on Intelligent Systems for the Automation), Italy. He is a member of the Editorial Board of the *Journal of Electrical Systems*. His current research interests are electrical machines, control, diagnosis and identification techniques of electrical drives, intelligent control and power converters. He is a member of the IEEE.



**Dr. Günther Schmidt** is a Professor emeritus and Head of the Interactive Systems and Control Group (ISAC), Institute of Automatic Control Engineering of the Technische Universität München, Germany. His main research interests are control theory and robotics including sensor-guided biped and mobile robots, telepresence and neuroprosthetic systems. Dr. Schmidt is the recipient of various scientific awards. He was

recently elected an IEEE Fellow.



**Giovanni Serra** (SM'04) was born in Bologna, Italy, in 1950. He received the Ph.D. degree (with honors) in electrical engineering from the University of Bologna, Bologna, Italy, in 1975. Following service in the Italian Army, he joined the Department of Electrical Engineering, University of Bologna, first as a recipient of a Fellowship of the Consiglio Nazionale delle Ricerche, then as a Research Associate,

and, since 1987, as an Associate Professor. He is currently Professor of Electrical Machines in the Department of Electrical Engineering. He has authored more than 90 papers published in technical journals and conference proceedings. His fields of interests are electrical machines, electrical drives, and power electronic converters. His current activities include direct torque control of ac machines, linear motors, and ac/ac matrix converters. Dr. Serra is a member of the IEEE Industry Applications and IEEE Dielectrics and Electrical Insulation Societies and the Italian Electrotechnical and Electronic Association (AEI). He is a Registered Professional Engineer in Italy.



**Tomoyuki Shimono** received the B.E. degree in mechanical engineering from Waseda University, Tokyo, Japan in 2004. He is currently working toward the M.E. degree at Keio University, Yokohama, Japan. His research interests include haptics, motion control and robotics. Mr. Shimono is a Student Member of the IEEE Industrial Electronics Society and the Institute of Electrical Engineers of Japan.



**Dražen Slišković** was born in Osijek, Croatia, in 1962. He received his B.Sc., M.Sc. and PhD degrees in 1988, 1998 and 2005 from Faculty of Electrical Engineering and Computing, University of Zagreb. After graduation, he was employed in Elektroosijek, in the field of measurement, supervision and control. Currently he is with Faculty of Electrical Engineering, University of Osijek, participating in education in

the field of Automatic Control. His research interests are process control, process modeling and estimation of difficult-to-measure process variables.



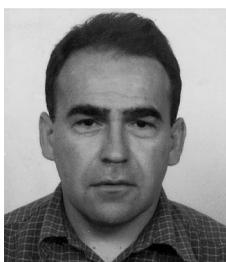
**Stjepan Štefanko** was born in Varaždin, Croatia, in 1944. In 1968 he graduated on the Faculty of Electrical Engineering in Zagreb. He received doctor's degree from TU Hannover in 1974. Since 1967 he has been working in Končar – Electrical Engineering Institute. From 1991 to 2004 he was part-time lecturer at the Faculty of Electrical Engineering in Osijek. He works on research and development of electrical

machines and electrical motor drives. He has published 44 papers.



**Angelo Tani** was born in Faenza, Italy, in 1963. He received the »Laurea« degree, with honors, in electrical engineering from the University of Bologna, Bologna, Italy, in 1988. He joined the Department of Electrical Engineering, University of Bologna, in 1990, where he is currently an Associate Professor. His scientific work is related to electrical machines and drives, power electronics, and Maglevs. He has

authored more than 60 papers published in technical journals and conference proceedings. His current activities include ac/ac matrix converters and direct torque control of induction motors.



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