

naši autori



Jean-Marie Aerts received his Masters degree in Bio-engineering in 1991 and obtained his Ph.D. in Applied Biological Engineering at the Catholic University of Leuven in Belgium. Since 2007 he is nominated as a professor in the Department of Biosystems at the Catholic University of Leuven. He is working in the division Measure, Model & Manage Bioresponses (M3-BIORES) and his research is focusing on modelling of biological processes by using

compact mathematical modelling techniques as a basis for developing controllers and monitors for biological systems (animals, plants, humans).

Through the years, M3-BIORES has specialized in the optimisation of monitoring and control of biological responses in relation with their environment by integration of biosignals (signals measured on living organisms which are complex, individually different and time-variant) in process management. M3-BIORES has gained a lot of expertise in the development of so called »Integrated Management Systems« for precision bioresponse engineering. In recent years this research is being extended towards human applications and towards different scales (from ecosystems to single cells).



Daniel Berckmans received his Ph.D. in Agricultural Sciences from Katholieke Universiteit Leuven in 1986. He started his career as Free Assistant at the Laboratory for Agricultural Building Research K. U. Leuven in 1977, then as Assistant at the IWONL-Centre prior to becoming Research Associate and later Research Director for the National Funds of Scientific Research. In 1987, he also became Lecturer and few years later Professor at the K. U. Leuven. Since

1998, he is Full Professor at the K. U. Leuven and Head of the Division M3-Biores (Measure, Model & Manage Bioresponses).

During the last 15 years, the research group M3-Biores, under the guidance of Daniel Berckmans, further expanded and currently counts 20 researchers who prepare their Ph.D. Approx. 85 master theses for engineers have been finished and over 460 papers published in journals and proceedings, in co-operation with several research groups all over the world. 9 Ph.D. students obtained their Ph.D. degree in the last 5 years.

Daniel Berckmans has been a member of more than 56 Ph.D. commissions in 6 different countries. Since 1982, a total of 9 products have been developed for the world market, in co-operation with industrial partners with whom royalty agreements were concluded. 13 patents have been submitted and 22 projects with a mean value of 400.000 euro per project are continuously managed within the group.



Marko Bosiljevac was born in Zagreb, Croatia, in 1980. He received his B.Sc. degree from the Faculty of Electrical Engineering and Computing, University of Zagreb in 2005. Currently he is a research assistant at the Department of Wireless Communications of the Faculty of Electrical Engineering and Computing, University of Zagreb. His research interests include advanced numerical techniques and acceleration methods with application to antennas, microwaves and optics.



Ovidio Mario Bucci was born in Civitavecchia, Italy, on November 18, 1943. He was assistant professor at the Istituto Universitario Navale of Naples, 1967-1975, then full professor of Electromagnetic Fields at the University of Naples. He was Director of the Department of Electronic Engineering, 1984-86 and 1989-90. Vice Rector of the University of Naples, 1994-2000. He also was Director of the Interuniversity Research Centre on Microwaves

and Antennas (CIRMA), 1997-2003, and of the CNR Institute of Electromagnetic Environmental Sensing (IREA), since 2001. He was Past President of the National Research Group of Electromagnetism and of the MTT-AP Chapter of the Centre-South Italy Section of IEEE. He was recipient of the International Award GUIDO DORSO for Scientific Research, 1996, Presidential Gold Medal for Science and Culture, 1998. He received the Calabria prize for scientific research, 2004. He is Fellow of the Institute of Electrical and Electronic Engineers (IEEE) since 1993, Member of the Associazione Elettrotecnica Italiana (AEI) and of the Academia Pontaniana. His scientific interests include scattering from Loaded Surfaces, Reflector and Array Antennas, Efficient Representations of Electromagnetic Fields, Near-Field Far-Field Measurement Techniques, Inverse Problems and non invasive Diagnostics, Biological applications of nanoparticles and electromagnetic fields.

Prof. Bucci is author or co-author of more than 350 scientific papers, mainly published on international scientific journals or Proceedings of international Conferences. Principal investigator or coordinator of many research programs, granted by national and international Research Organizations, and Companies.



Dr. Petr Černý (CVUT, Department of Electromagnetic Field, K13117, Technická 2, 166 27 Prague, Czech Republic, xcernyp1@fel.cvut.cz) born in Liberec in 1976. He received M.Sc. and Dr. degrees from Czech Technical University in Prague in 2001 and 2008 respectively. He is a research assistant of the project Quasioptic and Terahertz Spectroscopy at the CTU in Prague. His research interests are in the field of antennas (mainly ultra wideband),

terahertz spectroscopy and microwave circuits



F. D'Agostino received the Laurea degree in electronic engineering from the University of Salerno in Italy. He received the Ph.D. degree in 2000 and in 2002 he became an Assistant Professor at the same University wherein in 2005 he has been appointed Associate Professor of Electromagnetics Fields. His main research interests are:

application of sampling techniques to the efficient recovery of electromagnetic fields and to near-field-far-field transformation techniques; electromagnetic compatibility; radar cross section evaluations of loaded and unloaded corner reflectors. Dr. D'Agostino is member of the IEEE.

Francesca De Vita She received the Laurea degree in electronic engineering and the Ph.D. degree in informatics and Telecommunication Engineering from the University of Florence, Florence, Italy, in 1999 and 2005, respectively.

She is currently a Research Assistant in the Applied Electromagnetic Laboratory at the University of Florence. Her research interests include electromagnetic theory, and numerical methods with applications for array antennas and multilayered structures.

Paolo De Vita received a M.Sc. degree in electronic engineering on 1999 and a Ph.D. degree in informatics and telecommunication engineering on 2004, from University of Florence, Italy. Since 1999 he has served as a research assistant at the Electronics and Communications Department of University of Florence. His main research interests are on numerical techniques for electromagnetic radiation and scattering problems.

Alberto Di Maria received the doctor degree (Laurea) cum laude in Electronic Engineering from the University of Florence, Italy, in 2004. After that he joined the Department of Electronic and Telecommunication of the University of Florence where he is at the present a research assistant. At the present his research activities are focused on numerical methods applied to electromagnetic radiation and scattering problems, particularly concerning the Fast Multipole Method (FMM).



Levente Dudas was born in Budapest, Hungary. He graduated from Budapest University of Technology and Economics in 2007 at the Faculty of Electrical Engineering and Informatics, receiving M.Sc. degree. He has been a Ph.D. student since 2007, focusing on antenna systems, RF and radar technologies.



Michele D'Urso was born in Cercola, Italy, in 1976. He received the Telecommunication engineering Laurea degree (summa cum laude) from the University Federico II of Naples, Italy in 2002. After graduation, he joined the Applied Electromagnetic Group at Department for Electronics and Telecommunication Engineering of University Federico II of Naples, first as an Associate Researcher and then as a PhD Student, from 2003 to 2005. From Sep-

tember 2004 to January 2005, he was an intern at Mathematics and Modeling Department of Schlumberger-Doll Research, Ridgefield, CT, USA, under the supervision of Prof. Habashy. Here he worked on electromagnetic modeling for cross-well tomography and marine electrical prospecting. He received the Ph.D.

degree from the University Federico II in Naples in 2006, where he is actually working as an Associate Researcher. His scientific interests are devoted to forward and inverse electromagnetic scattering methods, phase retrieval problems and array antenna synthesis. Dr. D'Urso was the recipient of the G.Barzilai Award of the Italian Electromagnetic Society in 2004.

Angelo Freni (S'90-M'91-SM'03) received the Laurea (Doctors) degree in Electronics Engineering from the University of Florence in 1987. Since 1990 he is with the Department of Electronic Engineering of the University of Florence Italy, first as Assistant Professor and from 2003 as Associate Professor of electromagnetism.

During 1994, he was involved in research at the Engineering Department of the University of Cambridge, UK. From 1995 to 1999 he has also been an Adjunct Professor at the University of Pisa. His research interests include meteorological radar systems, radiowave propagation, numerical and asymptotic methods in electromagnetic scattering and antenna problems, remote sensing. In particular, part of his research concerned the extension and the application of the finite element method to the electromagnetic scattering from periodic structures and to the electromagnetic interaction with moving media.



Zoran Gajic is a Professor of Electrical and Computer Engineering at Rutgers University. Dr. Gajic's research interests are in controls systems, wireless communications, and networking. He is the author or coauthor of more than sixty journal papers, primarily published in IEEE Transactions on Automatic Control and IFAC Automatica journals, and seven books in the fields of linear systems and linear and bilinear control systems published by

Academic Press, Prentice Hall, Marcel Dekker, and Springer Verlag. Professor Gajic has delivered two plenary lectures at international conferences and presented more than one hundred conference papers. He serves on the editorial board of the journal Dynamics of Continuous, Discrete, and Impulsive Systems, and was a guest editor of a special issue of that journal, on Singularly Perturbed Dynamic Systems in Control Technology. Zoran Gajic received Dipl. Ing. and Mgr. Sci. degrees in Electrical Engineering from the University of Belgrade, and an M.S. degree in Applied Mathematics and Ph.D. in Systems Science Engineering from Michigan State University.



Claudio Gennarelli was born in Avelino, Italy, in 1953. He received the Laurea degree (summa cum laude) in electronic engineering from the University of Naples, Italy, in 1978. From 1978 to 1983 he worked with the Research Group in Electromagnetics at the Electronic Engineering Department of the University »Federico II« of Naples. In 1983 he became Assistant Professor at Istituto Universitario Navale (IUN), Naples. In 1987 he was appointed

Associate Professor of Antennas, formerly at the Engineering Faculty of Ancona University and subsequently at the Engineering Faculty of Salerno University. In 1999 he has been appointed Full Professor at the same University. The main topics of his scientific activity are: reflector antennas analysis, diffraction problems, radar cross section evaluations, scattering from surface impedances, application of sampling techniques to electromagnetics and to near-field-far-field transformations. Dr. Gennarelli is co-author of more than 260 scientific papers, mainly in international journals and conference proceedings. He is a Senior Member of the IEEE.



Rocco Guerriero received the Laurea degree in electronic engineering from the University of Salerno, in 2003. Since the same year he has been with the Research Group in Applied Electromagnetics at the University of Salerno. He received the Ph.D. degree in Information Engineering at the same University, where at the present time he is a Research fellow in Electromagnetic Fields. His interests include: application of sampling techniques to the efficient reconstruction of electromagnetic fields and to near-field-far-field transformation techniques; inversion of ill-posed EM problems; analysis of microstrip reflectarrays; diffraction problems.

efficient reconstruction of electromagnetic fields and to near-field-far-field transformation techniques; inversion of ill-posed EM problems; analysis of microstrip reflectarrays; diffraction problems.



Konstantinos A. Gotsis was born in Kavala, Greece, in 1977. He received the B.Sc. degree in Physics from the University of Crete, Greece, in 1999, and the M.Sc. degree in Electronics and Telecommunications from the Aristotle University of Thessaloniki (AUTH), Greece, in 2002. Upon completion of his military service, since 2003 he is working at the Telecommunication Center AUTH. Since 2005 Mr. Gotsis is a PhD Candidate in the Department of

Physics – AUTH working on smart antennas. His research interests include smart antenna systems and communications networks.



Dejan Gradišar received his B.Sc. and Ph.D. degrees in electrical engineering from the University of Ljubljana, Slovenia in 2001 and 2006, respectively. He is currently working as a postdoctoral researcher at the department of Systems and Control, Jozef Stefan Institute, Ljubljana and as an assistant at the Faculty of Electrical Engineering, University of Ljubljana. His currently research interests are in the area of information technology in control systems.



Marcella Guarino is a Full Researcher in the Faculty of Veterinary Medicine in Milan – University of Milan. During her career she studied the facilities for animals focusing on Indoor air quality. She attended the Ph.D. on 1996. Since 1992 she has been facing the big problem concerning the relation between livestock structures and the environment. Formerly she took charge of research projects focusing on the Climatization control in animal husbandry. To this purpose she has been involved in many researches and on studying committees both at regional and national level.

To this purpose she has been involved in many researches and on studying committees both at regional and national level.

In 2000 she got a grant from the National Council of Research (CNR) for a short term mobility that she has used to develop a research in the Department of Biosystems and Agricultural Engineering of University of Minnesota – USA, under the supervision of Prof. Larry D. Jacobson.

Joining the Department of Veterinary Science and Technology for Food Safety of the University of Milan she carried out her scientific activity at the Bioengineering and Environment Laboratory working on researches addressed to environmental problem, air indoor quality, and Precision livestock farming. In particular, in the last three years, she was involved in studying the problems

connected with innovation technology in livestock farming with reference both to the design aspects of the animal sheds and to their implications on the shed's indoor air quality. Afterwards she deepened the aspects connected to environmental impact of livestock farming by studying both gas/dust emissions in atmosphere and the reduction of nitrogen content in farm sludge to be used for agronomic purpose. More recently she was focusing on PLF studying the application of possible innovative solutions for the automatic monitoring of the animal health and welfare conditions in livestock farming. With reference to the studies carried out on the innovation technology in livestock farming, the main aspects investigated were the methods to avoid the penetration and development of pathologies, infections and various infestations in pig farming. To this purpose the research focused the cleaning level of various materials commonly used to build walls and floors by evaluating the colonization and persistence power of some typical bacteria after washing. The experimental activity focused also the relations between type of building (with particular attention to the slurry removal system) and the indoor air quality. She is also the leader of a project sponsored by the Italian Ministry of Environment (APAT), to fill the lack of data in the European country on PM10 emission from swine and poultry barns: this study allowed establishing the development of mathematical dynamic models for the emission factor assessment. She is the author of more than 120 papers both on National and International journals. She is also an ASABE member.



Mohamad Hajj was born in Barja, Lebanon on March 13, 1983. He received the B.S. degree in Computer and Telecommunication engineering in 2005 and the Masters degree in high-frequency electronics and optoelectronics from the University of Limoges, Limoges, France, in 2006, where he is currently working toward the Ph.D. degree.

His research interests include design of metallic EBG sectoral antenna for wireless communication networks, design antennas by using electromagnetic band-gap (EBG) and frequency selective surface (FSS) type substrates, and design of microwave antennas and circuits.



Janko Horvat was born in 1980, in Maribor, Slovenia. He received two B.Sc. degrees in electrical engineering from the Faculty of Electrical Engineering and Computer Science (FERI), University of Maribor, Maribor, Slovenia in 2003 and 2006.

Since 2002, he has been with ROS d.o.o as a software developer. In 2005 he joined the Institute of Robotics at FERI and then in 2006 TECES as a researcher. He is currently working on his Ph.D. at FERI. His research interests are power converters, especially resonant mode and soft switching converters.



Dr Hirokazu Ikeda was born in Tsukuba, Japan, in 1950. He received the B.S. degree in physics from Kyoto university in 1973, and, then, M.S. and Ph.D degrees in physics from the University of Tokyo, in 1975, and 1978, respectively. He joined the High Energy Accelerator Research Organization (KEK) in 1978. He moved to the Institute of Space and Astronautical Science, Japan (ISAS), in 2005, which is a part of Japan Aerospace Exploration

Agency (JAXA). His current research interests include VLSI analog circuit and radiation sensors for space craft missions as well as high energy physics and astrophysics. He is a member of the Physical Society of Japan, and IEEE Nuclear & Plasma Science Society as well as Solid State Circuit Society.



Tommaso Isernia received the Laurea degree (summa cum laude) and the Ph.D. degree from the University Federico II of Napoli, Italy. After being a Researcher (from 1992 to 1998) and an Associate Professor (from 1998 to 2003) at the Federico II University, he is currently Full Professor of electromagnetic fields at the Università Mediterranea di Reggio Calabria, Reggio Calabria, Italy. His research interests cover inverse problems in electromag-

netic with particular emphasis on phase retrieval, inverse scattering, and antenna synthesis problems. More recently, he is also engaged on effective solution procedures for forward scattering problems as applied to very large scale problems and photonic crystal devices. Prof. Isernia was the recipient of the G. Barzilai award from the Italian Electromagnetics Society (SIEM) in 1994.

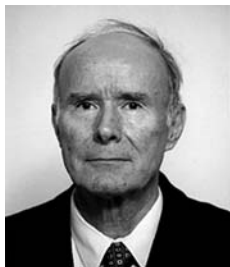


Bernard Jecko was born in Trélissac, France, on May 18, 1944. He received the Science Physic Doctor degree in electronics from the University of Limoges, Limoges, France, in 1979. He is currently a Professor at the University of Limoges, where he manages the electromagnetic (EM) team of IRCOM. His main interest is in studying scattering problems of EM waves, particularly in the time domain.



Vladimir Jovan studied Informatics and Computer Science at Faculty of Electrical Engineering in Ljubljana, Slovenia, where he also received Ph.D. Degree on Automation in 1992. Currently he is a senior researcher on Department of Systems and Control at Jozef Stefan Institute, Ljubljana and Director of Technology centre for Industrial Automation, Robotics and Informatics. His research interests include computer control of industrial

processes and integrated computer based management of production companies. He has been involved in several industrial projects on the fields of computer based process control and production management.



Franjo Jović (1940, Zagreb) doktorirao je na ETF Zagreb 1972 godine. Radovi od 1963–1988 godine su iz područja znanstvene instrumentacije, procesnog mjerenja, nuklearne elektronike, procesnog vođenja i funkcijskih sustava za elektroenergetiku i naftnu industriju. Razdoblje iza 1988. godine uključuje ekspertne industrijske sustave, kvalitativne algoritme, procesno modeliranje, analize rizika i umjetnu inteligenciju. Razdoblje iza 2000. godine

uključuje holografske tehnike i strojeve, koherentnu elektromagnetsku stimulaciju živih materijala i biofotoniku. Objavio je dvije znanstvene monografije iz područja procesne automatizacije i umjetne inteligencije kod Chapman&Hall, 100 konferencijskih, znanstvenih i stručnih radova, realizirao 40-tak uređaja i softvera

u primjeni kod proizvodnje, prijenosa i distribucije električne energije, pridobivanja nafte i plina, kemijskoj i procesnoj industriji, u različitim laboratorijima i istraživačkim jedinicama te u industriji. Posjeduje dva patenta primjene umjetne inteligencije u obradi skladištenja hrane (1994) i pridobivanju ugljikohidrata (2005). Iza 1990. godine djeluje na Sveučilištu J.J. Strossmayera u Osijeku gdje je redoviti profesor u trajnom zvanju i zajedno pročelnik Zavoda za računarstvo i informatiku ETF Osijek.



Dražen Jurišić is assistant professor of the Faculty of Electrical Engineering at the University of Zagreb in Croatia where he received his B.Sc., M.Sc. and Ph.D. degrees in Electrical Engineering in 1990, 1995 and 2002, respectively. In 2005 he was elected as assistant professor. He is involved in teaching lectures in undergraduate courses on »Electrical circuits«, »Signals and systems« and »Analog and mixed signal processing circuitry«. Present interests

include analog and digital signal processing and filter design. He worked as a researcher on the three scientific projects supported by Ministry of Science and Technology, Republic of Croatia. From 1997 until 1999 he was with Swiss Federal Institute of Technology (ETH) Zürich, Switzerland, as holder of Swiss Federal Scholarship for Foreign Students doing Ph.D. research in the field of analog active-RC filters. He was rewarded with the silver plaque »Josip Loncar« for his Ph.D. thesis. He is a member of KoREMA and IEEE-CAS society. He speaks English and German.



Yuichi Kado received the M.S. and Ph.D. degrees in electronics from Tohoku University, Sendai, Miyagi in 1983 and 1998, respectively. In 1983, he joined NTT Electrical Communications Laboratories, where he engaged in research on SOI structure formation. From 1989 to 1998, he worked on the development of fully-depleted CMOS/SIMOX LSI and ultra-low power CMOS circuits. From 1999, he engaged in research and development on compact

network appliances using low-power CMOS circuit technologies. He is currently responsible for ubiquitous communication appliance technologies at NTT Microsystem Integration Laboratories as an Executive Manager and is leading the R&D projects on ultra low-power network appliances, sub-THz wave wireless communication, and intra-body communication. Dr. Kado is a member of the IEEE.



Theodoros N. Kaifas completed his Ph.D. thesis at the Department of Physics of AUTH in 2004. From 1992 to 2004 he was a research assistant and since 2004 is a Postdoctoral Research Fellow at the Radio Communications Laboratory (RCL), Department of Physics, AUTH. Since 2001, he has also been working as a Scientific Associate at the Department of Electronics, Technological and Educational Institute of Thessaloniki, Greece and since 2006

at the Department of Technology Management, University of Macedonia, Greece. His current research interests include analysis and design of telecommunications systems, mathematical theory of information and computational electromagnetics. Dr. Kaifas is a member of the Hellenic Physicist Union and the Hellenic Club of Electronic Physicists.



Shigeo Kawasaki received the B.S. and M.S. degrees in electrical engineering from Waseda University in 1979 and 1981, respectively and Ph.D. degree in electrical engineering from University of California, Los Angeles (UCLA) in 1993. From April 1994 to September 2004, he joined the Department of Electrical and Electronics Engineering at Tokai University, and from 2004, the Research Institute for Sustainable Humanosphere (RISH) at

Kyoto University, Japan, as the Professor. In 1997, he was the Invited Visiting Scholar at UCLA and, in 1999, the Invited Visiting Professor at California Institute of Technology. His research activities include the quasi-optical and active integrated antenna technique, its optical control, the nonlinear active device modeling, an electromagnetic analysis for microwave simulators and high power devices and circuits for SPS. He has several patents and has published more than 300 papers and reports in journals, books, meeting and conferences.



Dr. Yasuhiro Kazama received the B.E. and M.S. degrees from Hosei University, in 1976 and 1978 and Ph.D. degree in electrical engineering from Chiba Institute of Technology, in 1999, respectively. From April 1980 to April 2007, he joined Japan Radio Co. Ltd. (JRC), and from May 2007, the Institute of Space and Astronautical Science at Japan Aerospace Exploration Agency, Japan, as the senior researcher. His research activities include the develop-

ment of Satellite, Mobile, and Fixed communications antennas, and SPS antennas. Dr. Kazama is the member of IEICE (Japan) and IEEE.



T. Komljenović was born in 1982 in Zagreb, Croatia. In 2007 he graduated from the University of Zagreb, Faculty of Electrical Engineering and Computing where he is currently working on his Ph.D. degree. His research interests include fiber based sensor systems and lens antenna design at millimeter wavelengths.



Péter Kovács was born in Budapest, Hungary. He graduated from Budapest University of Technology and Economics in 2005 at the Faculty of Electrical Engineering and Informatics, receiving MSc. degree. He has been a Ph.D. student since 2005, he is interested in antennas, RF and communication technologies.



Naoya Kukutsu was born in Hokkaido, Japan, on September 16, 1962. He received the B.E., M.E., and D.E. degrees in electrical engineering from Hokkaido University, Sapporo, Japan, in 1986, 1988 and 1991, respectively. His D.E. dissertation was research for a time-domain electromagnetic wave numerical analysis method. In 1991, he joined the Nippon Telegraph and Telephone Corporation (NTT), Applied Electronics Laboratories, Musashino,

Japan. He is currently a senior research engineer, supervisor at NTT Microsystem Integration Laboratories, Atsugi, Japan. His current research involves a millimeter-wave radio transmission system and a millimeter-wave imaging system. Dr. Kukutsu is a member of the IEEE MTT and COM Societies and the Institute of Electronics, Information, and Communication Engineers of Japan.



Milos Mazanek born in Tanvald 1950. He received M.Sc and Ph.D. degrees from the Czech Technical University in Prague (CTU) in 1974, and 1980 respectively. He is a head of the Department of Electromagnetic Field (CTU) since 1997, a senior member of IEEE, the head of Radioengineering Society and Radioengineering journal executive editor. His research interests are in the field of antennas, EMC, and microwave radiometry.



Prof. Neven Mijat received his B.Sc., M.Sc. and Ph.D. degrees in Electrical Engineering from the Faculty of Electrical Engineering, University of Zagreb in 1970, 1974 and 1984, respectively. In 1970 he joined the Department of Electronic Systems and Information Processing at the Faculty of Electrical Engineering, University of Zagreb, where he is currently professor within the Networks, Systems and Signals group. At the Faculty he is involved in

teaching lectures in undergraduate courses involving Network Theory, Filters, Analogue circuits, SC circuits, and in the post-graduate courses »Filter design«, and »Numerical methods in system design«. His current research interests include data acquisition systems and filter theory and realization methods. He was also leading a number of R&D projects. He is member of IEEE, CROMBES, KoREMA and some other professional societies. He was a principal investigator for few scientific projects and development projects for companies. He received the »Josip Loncar« silver plaques for his M.Sc. and Ph.D. theses in 1974 and 1984 respectively.



Miro Milanović received the B.Sc., M.Sc. and Dr. Eng. Degrees in electrical engineering from the University of Maribor, Maribor, Slovenia in 1978, 1984, and 1987, respectively. From 1978 to 1981 he worked as a Power Electronics Research Engineering and Computer Sciences, the University of Maribor. In 1993 he was a visiting scholar at the University of Wisconsin, Madison, USA and in 1999 he spent two months at the University of Tar-

ragona, Spain as a Visiting Professor. Currently he has a full professor position at the University of Maribor. His main research interests include control of power electronics circuits, unity power factor correction and switching matrix converters.



George S. Moschytz is head of the Electrical and Computer Engineering Department at the Bar-Ilan University in Israel. Present interests include analog and digital, sampled-data, and adaptive filters, for communication systems. Earlier Professor Moschytz was with RCA Labs in Zürich, Bell Telephone Labs, Holmdel, NJ, where he supervised a group designing analog and digital integrated circuits for data communications, and at ETH, Zürich,

as Professor and Director of the Institute for Signal and Information Processing. Author of »*Linear Integrated Networks: Fundamentals*« and »*Linear Integrated Networks: Design*«, and co-author of the »*Active Filter Design Handbook*«, and »*Adaptive Filter*« (in German). Editor of »*MOS Switched-Capacitor Filters: Analysis and Design*«, and co-editor of »*Tradeoffs in Analog Design*«. Authored many papers in the field of network theory, design, and analysis, and holds numerous patents in these areas. Professor Moschytz has held the position of president of the IEEE Circuit and Systems Society, and is an elected member of the Swiss Academy of Engineering Sciences. He is a Life-Fellow of the IEEE, and has received several IEEE awards, including the IEEE CAS Education Award.



Tadao Nagatsuma received the B.S., M.Sc. and Ph.D. degrees in electronic engineering from Kyushu University, Fukuoka, Japan, in 1981, 1983, and 1986, respectively. In 1986, he joined the Nippon Telegraph and Telephone Corporation (NTT), Atsugi Electrical Communications Laboratories, Kanagawa, Japan, and was engaged in design and testing of ultrahigh-speed semiconductor electronic/photonic devices and integrated circuits. He was

a Distinguished Technical Member at NTT Telecommunications Energy Laboratories from 1999 to 2002, and a Group Leader at NTT Microsystem Integration Laboratories from 2003 to 2007. He is now with Osaka University as a Professor at Division of Advanced Electronics and Optical Science, Department of Systems Innovation, Graduate School of Engineering Science. His recent research involves millimeter-wave and terahertz photonics, and their application to sensors and wireless communications. Prof. Nagatsuma is a senior member of the IEEE, and the Institute of Electronics, Information, and Communication Engineers of Japan.



Krešimir Nenadić rođen je 12. 07. 1975. godine u Požegi. Osnovnu školu pohađa u Kutjevu te nakon nje upisuje Matematičku gimnaziju u Požegi. Za vrijeme srednjoškolskog obrazovanja bio je sudionik županijskih natjecanja iz informatike. Elektrotehnički fakultet u Osijeku smjer Elektronika i automatizacija upisuje 1994. godine. Nakon obrane diplomskog rada naziva »Utjecaj preciznosti prikaza realnog broja na točnost proračuna«, 2000. godine za-

pošljava se kao znanstveni novak na Elektrotehničkom fakultetu u Osijeku na Zavodu za računarstvo. Iste godine upisuje poslijediplomski studij na Elektrotehničkom fakultetu u Osijeku. Područja istraživanja kojim se bavi su brzo kvalitativno modeliranje procesa, digitalna holografija u proizvodnim procesima, primjena lasera u ekološkoj pripremi sjemenskog zrnja i ekološkom poslijezetvnom tretiranju zrna.



MSc. Josef Nevrlý was born in Havírov in 1982. He received M.Sc. degree from Czech Technical University in Prague in 2007. Currently working as antenna engineer in Communication Devices Division of ALPS Electric Co. Ltd, Japan, his job involves designing compact antennas for Bluetooth devices and broadband measurement antennas.



Stjepan Pilešić rođen je 1959., diplomirao 1983. g.; magistrirao 1989.g.; doktorirao 1995. Nastavnik na diplomskim, diplomskim i doktorskim studijima Agronomskog fakulteta Sveučilišta u Zagrebu na studiju Poljoprivredna tehnika za područje transporta, automatizacije, rashladnih tehnologija, dorade i prerade poljoprivrednih proizvoda. Od 1984. g. u radnom je odnosu na Agronomskom fakultetu Sveučilišta u Zagrebu, a od 1997. g. gost je

profesor na Agronomskom fakultetu Sveučilišta u Mostaru, BiH na kojem je 2003. g. izabran za izvanrednog profesora. Autor je poglavlja u sveučilišnom udžbeniku, te u dvije knjige. Autor i koautor je brojnih znanstvenih i stručnih radova iz područja tehnologije sušenja i hlađenja poljoprivrednih proizvoda, ljekovitog, aromatičnog i medonosnog bilja, tehnologije prerade krmnih smjesa, transporta poljoprivrednih proizvoda i automatizacije istih. Voditelj je i suradnik znanstvenih i stručnih projekata. Aktivno sudjeluje na domaćim i međunarodnim znanstveno stručnim skupovima. Usavršavao se u znanstveno stručnim institucijama Austrije, Njemačke, Češke, Slovačke i SAD-a. Voditelj je laboratorija za vlagomjere DZNM RH.



Naser Prljaca is an associate professor of Electrical Engineering at the University of Tuzla, Bosnia and Herzegovina. He received B.Sc. degree from University of Sarajevo, M.Sc. degree from University of Belgrade and Ph.D. degree from Dublin City University. He was a Fulbright Scholar with Rutgers University. He has been teaching control systems, robotics and machine vision. He has published numerous research papers. His current research interests include weakly coupled and singularly perturbed systems control, fuzzy logic control systems, model based predictive control systems and control over networks.



Giovanni Riccio received the Laurea degree in electronic engineering from the University of Salerno, in 1992. Since the same year he has been with the Research Group in Applied Electromagnetics at the University of Salerno. In 1995 he became Assistant Professor at the same University, where he is presently Associate Professor of Electromagnetics. His interests include: application of sampling techniques to the efficient reconstruction of electro-

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Apart from being author and editor of several books and proceedings he published over 150 international scientific papers advocating the use of systems modelling and control in a wide spectrum of applications in agriculture, food processing and environmental technology, with special emphasis on greenhouse cultivation control. He is the promoter of 28 Ph.D. students. He received the IFAC Outstanding Contribution Award, and served as Chair of the IFAC Technical Committee on Control in Agriculture (2003-2008). He is also Associated Editor for Control Engineering Practice (CEP) and Editor-in-Chief of Computers and Electronics in Agriculture (COMPAG).



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