

CURRICULUM VITAE
GORDANA JOVANOVIC-DOLECEK

PRESENT POSITION

Researcher Titular, tenure position.
Department of Electronics
National Institute for Astrophysics, Optics and Electronics
Puebla, Mexico.
Member of SNI
Senior member IEEE
Member of Mexican Academy of Sciences, since 18 October 2005.

ADDRESS

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PERSONAL DATA

PLACE OF BIRTH: Sabac
SEX: Female
COUNTRY OF PERMANENT RESIDENCE: Mexico.
CITIZENSHIP : Mexico

EDUCATION

- Ph.D. (1981) School of Electrical Engineering, University of Sarajevo.
(Thesis title: "General Topological Approach to the
Problems of Network Function, Network Sensitivity and Network
Reliability Computation".)
- M.S. (1975) The Center for Multidisciplinary Studies, University of Belgrade.
(Thesis title: "Application of Topological Formulas in Linear Systems".)
- B.Sc. (1969) School of Electrical Engineering, University of Sarajevo.

PROFESSIONAL CAREER

2008, October- 2009, September	San Diego State University, Department of Electrical and Computer Eng., visiting scholar.
2006 (March- June)	University of California, Santa Barbara, ECE Department, visiting scholar.
2001-2002	Sabbatical year at the University of California, Santa Barbara, ECE Department, visiting scholar.
1995-now	Institute National INAOE, Puebla, Mexico
1993-1995	Institute Mihailo Pupin, University of Belgrade.
1991	Promoted to Full Professor, School of Electrical Engineering, University of Sarajevo.
1991 - 1993	Chair of the Communication Systems department, School of Electrical Engineering, University of Sarajevo.
1989	Founded a new research unit: Laboratory for Telecommunications, LABTEL, which I headed until 1993, School of Electrical Engineering, University of Sarajevo.
1986 - 1991	Chair of the Telecommunications department, School of Electrical Engineering, University of Sarajevo.
1985	Promoted to Associate Professor, School of Electrical Engineering, University of Sarajevo.
1980 - 1986	Chair of the Communication Systems department, School of Electrical Engineering, University of Sarajevo.
1977	Promoted to Assistant Professor, School of Electrical Engineering, University of Sarajevo.
1977	Founding member of the Telecommunications department, School of Electrical Engineering, University of Sarajevo.
1971	Joined the School of Electrical Engineering, University of Sarajevo as a teaching and research assistant.
1969	Joined the Institute of Energoinvest, IRCA, University of Sarajevo, as a research assistant.

PROFESIONAL APPOINTMENTS:

- 2009 Member of IGI Global's Editorial Advisory Review Board.
- 2009 Reviewer for IET Signal Processing, UK.(two papers)
- 2009 Reviewer for IEEE International Conference MIC-CPE
Mosharaka Conference, Aman Jordan.
- 2008 Reviewer for 2 CONACYT projects.
- 2008 Reviewer for International Conference IBIMA 2009.
- 2008 Official reviewer for CONACYT (RCEA) en area VI:
Engineering and Industry. NO. RCEA-07-16226-2008
- 2008 Reviewer for IET Signal Processing, UK. (various papers)
- 2008 Member of International Technical Program Committee of the 9th
International Symp on Signals, Circuits, and Systems, Iasi
Romania, July 2009.
- 2008 Member of the International Program Committee for
International conference on Signal and Image Processing , SIP
2008

- 2008 Reviewer for International conference on Signal and Image Processing (SIP 2008).
- 2008 Evaluador para SEP CONACYT PNPC
- 2008 Reviewer for CONACYT (projects).
- 2008 Reviewer for IGI Global USA. (various books)
- 2008 Reviewer for International journal IEEE Signal Processing Letters
(various papers)
- 2008 Reviewer for IEEE Conference MIC CPE 2008.
- 2008 Reviewer for International journal IEEE Transactions on Circuits and Systems II. (various papers).
- 2008 Reviewer for International journal IEEE Transactions on Circuits and Systems I. (various papers).
- 2007 Member of IGI global Editorial Advisory Review Board, (USA)
- 2007 Reviewer for 2008 American Control Conference ACC 2008.

- 2007 Reviewer for journal “The Open Electrical & Electronic Engineering Journal, TOEEJ.
- 2007 Reviewer for journal IET Circuits Device and Systems, (UK).
- 2007 Reviewer for ISCAS 2008.
- 2007 Member of Editorial Review Board for Scientific Journals International (SJI).
- 2007 Evaluation for CONACYT: Graduated programs, PNPC 2007.
- 2007 Reviewer for CONACYT projects Ciencia basica.
- 2007 Reviewer for International IEEE Conference MWSCAS 2007.
- 2007 Board Member for The Open Electrical and Electronic Engineering Journal., Bentham Science Publisher.
- 2007 Member of Committee for International Conference SIP 2007, Honolulu, Hawaii
- 2007 Reviewer for International Conference PIMRC07, Athens, Greece

- 2007 Reviewer for International journal IEEE Transactions on Circuits and Systems I: (various papers).
- 2007 Reviewer for International journal IEEE Transactions on Circuits and Systems II. (various papers)
- 2006 Reviewer for the International Conference ICED 2006, Veracruz .
- 2006 Member of committee for International Conference ICED 2006, Veracruz.
- 2006 Reviewer for IEEE Latin American Transaction.
- 2006 Reviewer for 2006 IEEE Asia Pacific Conference on Circuits and Systems, APCCAS 2006.
- 2006 Reviewer for IEEE Transactions on Signal Processing.
- 2006 Reviewer for Journal IEEE Transaction on Circuits and Systems II.
- 2006 Reviewer for international IEEE Conference MWSCAS, Puerto Rico 2006.
- 2006 Reviewer for chapter in a book Advances in Audio and Speech Signal Processing: Technologies and Applications, edited, by H. P. Meana, IGP USA.
- 2006 Member of the editorial advisory board of the International Journal of Cases on Electronic Commerce (IJCEC).
- 2006 Member of the international board of editors for the Journal of Information Technology education, USA.
- 2006 External member for the evaluation of the engineering area of the University of Guanajuato.
- 2006 Reviewer for the IEEE Control Conference 2006 CCA/CACSD/ISIC, Germany, October, 2006.

- 2005 Reviewer for the Ibership IWS2006 Conference.
- 2005 Reviewer for the IEEE Transactions on Signal Processing Journal.
- 2005 Reviewer for the IEEE Wireless Communications and Networking Conference April, 2006, Las Vegas, USA.
- 2005 Reviewer for the International Conference IBIMA05, Cairo, Egypt.
- 2005 Reviewer for the IEEE Conference ICICS 2005, Thailand.
- 2005 Reviewer for the Encyclopedia of Information Technology, Second Edition, IGP, USA.
- 2005 Reviewer for the International Journal on Digital Signal Processing (Kluver).
- 2005 Reviewer for the IEEE Transactions on Circuits and Systems Journal.
- 2005 Member of the editorial advisory board of the International Journal of Cases on Electronic Commerce (IJCEC).
- 2005 Member of the international board of editors for the Journal of Information Technology education, USA.
- 2005 Member of International Program Committee for the International Conference SIP 2005, Honolulu, Hawaii, USA
- 2005 Technical Committee Member, International Conference RIM 2005, Bihac, Bosnia.
- 2005 Reviewer for the International Conference SIP2005, Hawaii, USA.
- 2005 Reviewer for the IEEE Signal Processing Letters journal.
- 2005 Chairman of the Digital Filter Session at the International Conference ISCIT 2005, Beijing, China.
- 2004 Member of the international board of editors for the Journal of Information Technology education, USA.
- 2004 Reviewer for the International Journal of VLSI Signal Processing, Springer, USA.

- 2004 Reviewer for the International Conference CONTI 2004, Romania.
- 2004 Technical Committee Member, ICED Vera Cruz, 2004.
- 2004 Member of the editorial advisory board of the International Journal of Cases on Electronic Commerce (IJCEC).
- 2004 Reviewer for the international Conference IBIM2004, Amman, Jordan.
- 2004 Technical Committee Member, International Conference on Signal and Image Processing ISIP 2004, Honolulu, Hawaii, USA
- 2004 Reviewer for the International Conference on Signal and Image Processing, ISIP 2004, Honolulu, Hawaii, USA.
- 2004 Reviewer for the Encyclopedia of Multimedia Technology and Networking, IRMA Press, USA.
- 2004 Reviewer for the IEEE Transactions on Circuits and Systems: II journal.
- 2004 Reviewer for the Encyclopedia of Information Science and Technology, Idea Group Publishing, USA.
- 2004 Reviewer for the International Conference IRMA 2004.
- 2003 Member of the international board of editors for the Journal of Information Technology Education, USA.
- 2003 Reviewer for the International Conference SCI2003, Orlando, USA.
- 2003 Reviewer for the IEEE Transactions on Circuits and Systems: II journal.
- 2003 Track co-chair for the International Conference IRMA 2004, New Orleans, USA, 2004.
- 2003 Member of the International program Committee for CIDCS 2003, Vera Cruz, Mexico, June 2003.
- 2003 Reviewer for the International Conference on Circuits, Signals, & Systems, Cancun, May 2003.

- 2003 Member of International Program Committee for the International Conference Signal and Image Processing ICIP, Honolulu 2003.
- 2003 Member of the Scientific Board of International Conference RIM 2003.
- 2002 Reviewer for a CONACYT project.
- 2002 Reviewer for the IEE Proceedings on Vision, Image and Signal Processing journal, United Kingdom.
- 2002 Member of the international board of editors for Journal of Information Technology Education, USA.
- 2002 Member of the program committee of the 2002 IRMA Conference.
- 2001 Evaluation of graduate program of National Technique Institute for CONACYT. (Actualizacion 2000-2001 del Padron de Postgrado, Centro de Investigacion y Desarrollo de Tecnologia del Instituto Politecnico Nacional).
- 2001 Reviewer for 4 book chapters for Informing Science.
- 2001 Appointed to the International Board of Editors for the Journal of IT Education.
- 2001 Reviewer for the European Conference ECCTD 2001.
- 2000 Reviewer for the books for Idea Group Publishing.
- 2000 Member of the Steering Committee for the International Conference IRMA 2001.
- 1999 Member of the Steering Committee for the International Conference IRMA 2000.
- 1999 Member of the Steering Committee and the chairman of the session for the Third Int. Workshop on Design of Mixed Mode IC And Applications, Puerto Vallarta.
- 1999 Member of the Program Committee of the International Conference ELECTRO 99, Chihuahua 1999.
- 1999 Member of the Program Committee of the International Conference IRMA99, Hershey, PA, USA, 1999.

- 1998 Chairman and organizer of the invited session "The Applications of Computers in Education" in International Conference SCI '98 and ISAS '98, Orlando, USA 1988.
- 1998 Member of the Program Committee of the International Conference SCI'98 and ISAS '98, Orlando, USA.
- 1998 Chairman of a Session, International Conference ISITA 98, Mexico, Mexico DF, 1998.
- 1998 Member of the Program Committee of International Conference ELECTRO 98, Chihuahua 1998.
- 1998 Member of the Program Committee of CONIELCOMP 98, Puebla 1998.
- 1997 Member of the Program Committee and the Chairman of a session of International Workshop, Cancun, July 1997.
- 1991-1993 Member of the Government Consultative Committee for Developments of Telecommunications in Bosnia and Herzegovina.
- 1990 Member of the Organizing Committee of the Yugoslavian Symposium on Graph Theory, Jahorina 1990.
- 1984 Member of the Organizing Committee of International IEEE and ETAN Conference on Network Theory, ISYNT 84, Sarajevo 1984.
- 1978-1990 Member of the Network Theory Committee ETAN.
- 1975-1991 Member of the Yugoslavian Association ETAN, (Electronic, Telecommunication, Automation, Nuclear).

AWARDS:

- 2008 CONACYT grant for Sabbatical Year at SDSU, San Diego, USA.
- 2006 Faculty Grant UCMEXUS for a 3 month stay at University of California, Santa Barbara, USA.
- 2005 Second place for my doctoral student Alfonso Fernandez Vazquez at the First National Convention of Applied Research and Technological Development, Puebla, October 2005.

2005	Member of Mexican Academy of Sciences, since 18 October 2005.
2004	Senior member of IEEE since 2004.
2001	Grant of CONACYT for a Sabbatical Year at University of California, Santa Barbara USA.
2001	Grant given by the Conference Committee for the participation in the European Conference ECCTD 01, Expo, Finland, Sept. 2001
2000	Diploma given by the mayor of Vera Cruz: “Visitante distingida”, (“Distinguished Visitor”), April 2000.
1999	Grant given by the Conference Committee for the participation in the European Conference ECCTD 99, Stresa, Italy, Sept. 1999.
1990	University of Sarajevo Award for 20 years of successful work at the University of Sarajevo.
1978	Award for the best paper at the Yugoslavian Conference ETAN 78.
1969	School of Electrical Engineering Award for the highest academic success.

FOREIGN LANGUAGES:

I finished schools of English language in London in 1991 and 1990 and Spanish courses in INAOE during 1998-2000. I also speak Serbian-Croatian and can use Cyrillic and Latin. I can read French and Russian.

TEACHING EXPERIENCE:

My teaching interests are in the field of **Digital Signal Processing, Multirate Signal Processing, Random Signal Analysis, Discrete Signal Analysis, Statistical Theory of Communication, and Theory of Digital Communication.**

I introduced these subjects into undergraduate and graduate programs in INAOE, Puebla Mexico, Institute Mihailo Pupin, Beograd, Yugoslavia, and the Department of Telecommunication, School of Electrical Engineering, Sarajevo University.

COURSES:

The following contains the list of courses I have taught.

Institute INAOE, Puebla, Mexico (Master's and Ph D courses):

- Special topics: Digital signal processing, (PhD), (May-July, 2008).with A . Fernandez.
- Digital Communications, (Ph.D), January-May, 2008, with A. Fernandez.
- Digital Signal Processing: Algorithms and Applications (Ph.D), January-May 2008 with A. Fernandez.
- Digital Signal Processing, (M. Sci), (Jan.-May 2008).
- Digital Communications (M. Sci),(Jan-May, 2008), with A. Fernandez.
- Introduction to Communications (Msci) (with E. Rogelio), August-Dec 2007.
- Special topics: Fundamentals of Digital signal Processing (Ph.D), (May-July, 2007)
- Digital Signal Processing II , (M.sci),(May-July, 2007).
- Digital Communications (M. Sci),(May-July, 2007).
- Digital Signal Processing, (M. Sci),(January-May, 2007).
- Introduction to Communications, (Ph.D), January-May, 2007.
- Digital Signal Processing: Algorithms and Applications (Ph.D), January-May 2007.
- Introduction to Communications (M.Sci),(August-Dec 2006, with J Castañeda)
- Digital Signal Processing: Algorithms and Applications (Ph.D),(August-Dec, 2006, with A. Fernandez Vazquez)
- Digital Signal Processing II , (M.sci),(May-July, 2006)
- Digital Signal Processing, (M. Sci),(January-May, 2006)
- Introduction to Communications, (M. Sci), (August-Dec 2005, with J Castañeda)
- Digital Signal Processing II, (M. Sci), (May-July 2005)
- Digital Signal Processing, (M. Sci), (Jan.-May 2005)
- Communications I, (M. Sci), (Jan-May 2005), with J. Rodriguez.
- Introduction to Communications, (M. Sci), (Sept-Dec. 2004) with I. Zaldivar.
- Special topics DSP: Multirate Systems, (M. Sci), (May, July 2004)
- Digital Signal Processing, (M. Sci), (Jan.-May 2004)
- Introduction to Communications, (M.Sci), (Sept-Dec. 2003) with I. Zaldivar.
- Special topics :Wavelets and Subband Coding , (Ph.D),(May-July 2003)
- Special topics :Digital Signal Processing II , (M.Sc),(May-July 2003)
- Special topics :Multirate Filter Banks, (Ph.D), (Jan-May 2003)
- Digital Signal Processing I, (M.Sc), (Jan-May 2003)
- Digital Communications, (M.Sc), (Jan-May 2001)
- Digital Signal Processing, (M.Sc), (Sep-Dec. 2000).
- Introduction to Communications and Systems, (Ph.D),(Sep-Dec. 2000).
- Special topics: Filter Banks, (Ph.D),(Jan-May, 2000)
- Digital Signal Processing I, (M.Sc),(Jan-May, 2000)
- DSP Algorithms and Applications, (M.Sc),(Jan-May. 2000).
- Digital Communications, (M.Sc),(Jan-May. 2000).
- DSP Algorithms and Applications , (Ph.D), (Sep-Dec 1999)
- Introduction to Communication and Systems, (Ph.D),(Sep-Dec. 1999)

- Digital Signal Processing, (M.Sc) ,(Sept-Dec 1999)
- Digital Signal processing II, (M.Sc), (May-July 1999)
- Digital signal Processing , (M.Sc.), (Jan-May 1999)
- Digital communication, (M.Sc), (Sept- Dec. 1998)
- Special topics on DSP: Algorithms and Applications, (M.Sc), (May-July 1998)
- Digital Signal Processing , (M.Sc), (Jan-May 1998)
- Digital Communication, (M.Sc), (Sept-Dec 1997).
- Digital Communication, (Ph.D), (Sept-Dec 1997).
- Digital Signal Processing-Algorithms and Applications, (M.Sc), (May-June 1997).
- Digital Signal Processing, (M.Sc), (Jan- May 1997)
- VLSI Communication, (M.Sc), (with J. Silva and G. Espinoza) (Jan- May 1997)
- Digital Communication, (M.Sc), (Sept-Dec.1996).
- Digital Communication, (Ph.D), (Jan-May, 1996).
- Digital Signal Processing-Algorithms and Applications, (M.Sc), (May-June 1996).
- Digital Signal Processing, (M.Sc), (Sept-Dec. 1995)

Universitas de las Americas, UDLA, Puebla:

- Digital Signal Processing, (Sept-December 1997)

Institute Mihailo Pupin, Beograd, Yugoslavia:

- Digital Signal Processing, (with Lj. Milic, I. Maljevic and U. Rosic), 1994.

Faculty of Electrical Engineering, Sarajevo.

- Automatic Regulation, 6 semester courses, (1971-1977).
- Modeling of Systems, 6 semester courses, (1971-1977).
- Dynamic of Processes, 2 semester courses, (1972-1974).
- Introduction to Communication, 11 semester courses (1980-1991).
- Statistical Theory of Communication I, 16 semester courses (1977-1993).
- Statistical Theory of Communication II, 5 semester courses (1988-1993).
- Signal Analysis I, 1 semester course (1985-1986).
- Signal Analysis II, 1 semester course (1985-1986).
- Digital Signal Processing, 2 semester courses (1991-1993).
- Introduction to Graph Theory, 2 semester courses (1978-1980).
- Discrete Signal Analysis, 4 semester course (1988-1992).
- Reliability, 3 semester course (1986-1989).
- Fundamentals of Electrotechniques, 13 semester courses (1977-1990).

THESIS SUPERVISED IN MEXICO:

Ph D thesis: 3 completed and 2 in progress.

Master's thesis: 16 completed and 1 in progress.

B. Sci thesis: 2 completed.

List of thesis supervised in INAOE:

a. Ph. D thesis completed: (3)

- **“A New Design Technique for IIR filters and Filter Banks”**, INAOE, March 2006, Student Alfonso Fernandez Vazquez.
- **“Multirate Design of Digital FIR Filters”**, INAOE, 2003, student Jose Javier Diaz Carmona.
- **“Implementation of Multirate Filter Banks”**, INAOE 1999, student Oscar Ibarra-Manzano.

b. Master’s thesis completed: (16)

- **Design and simulation of multirate timing recovery in software radio**, Master’s Thesis, Eric Mario Silva Cruz, INAOE, (with J. Carballido), October,3, 2008.
- **Efficient digital filter design for IS-95 CDMA Systems”**, Master’s Thesis Troncoso Romero David Ernesto, INAOE, September, 29, 2008.
- **“CDMA cellular systems using smart antennas”** Master Thesis, Student Mauricio Carro Lopez, 29 February, 2008, INAOE, (with Josefina Castaneda Camacho).
- **Fundamental Nonrecursive Structures realizing integer factor SRC**, Master Thesis, Student, Fernando Trejo Torres Javier, august 2007, INAOE, 2005-2007.
- **“Systems for fractional SRC**, Master thesis, Student: Naina Rao Nagrale, INAOE, 10 of July 2007.(With Martinez Carballido).
- **“Design of digital filters with fewer multipliers”**,(Diseño de Filtros Digitales FIR con menos multiplicadores), INAOE , Master’s thesis, student Perez Xochicale Miguel Angel, 1. Sept. 2006.
- **Construcción y aplicaciones de 3-D wavelets”**, (Construction and Applications of 3-D Applications of 3-D Wavelets), INAOE , Master’s thesis, Student Edgar Mauricio Romero Lopez, Co-advisor: Alfonso Padilla Vivanco, Optica, July 2006.
- **“Design of FIR Filter using Periodical Filters”** , INAOE, Jan. 2005, student Raul Ochoa Valiente.

- **“Design and application of all pass filters”**, INAOE, Nov. 2003, student Juan Yose Yanez Macias.
- **“Wavelets para Codification de Digitos Binarios”**, (**Wavelets for Binary Data Codification**), INAOE; October 2000, student Alfonso Fernandez Vasquez.
- **Diseño de decimadores, (Design of Decimators)**, INAOE, Mayo 2000, student Alejandro Martinez Ramirez,(with Dr. Monico Linares Aranda).
- **“Diseño de decimadores e Interpoladores Multietapas Eficientes”**, (**Design of Efficient Multistage Decimators and Interpolators**), INAOE 2000, student Jose Luis Tecpanecatl Xihuitl.
- **“Multirate processing of bandpass signals”**, INAOE, 2000, student Marco Alfredo Reyes Montiel.
- **“Implementacion multirazon del analisis espectral dependiente del tiempo”**, (**Using Multirate for Time Dependent Spectral Analysis**), INAOE 1999, student Juan Manuel Madrigal Bravo.
- **“Sistemas de retardo fraccionario FIR basado en conceptos multirate: Diseno y aplicaciones”**, (**Systems for Fractional Delay Based on Multirate Systems: Design and Applications**), INAOE 1999, student Ruth Mariela Aguilar Ponce.
- **“Diseno y aplicación de filtros de fase minima”**, (**Design and Applications of Minimum Phase Filters**), INAOE, 1997, student Jose Javier Diaz Carmona

c. B. Sc. thesis completed at BUAP, Puebla: (2)

- **“Metodos eficiente de filtrado FIR”**, (**Efficient Methods for FIR Filters Designs**), BUAP 1999, B. Sci thesis, student Jose Luis Tecpanecatl Xihuitl.
- **“Retardo Fraccionario con conceptos multirate”**, (**Fractional Delay Based on Multirate**), BUAP 1999, B. Sci thesis, student Ruth Mariela Aguilar Ponce.

Thesis in progress: (5)

- Conde Sanchez Jose Ruben; **“ Procesamiento de señal multirazon para receptores de radiodefinidos por software”**, (**Multirate signal processing for software radio receivers**), PhD thesis, INAOE, 2007-2010.

- Naina Rao Nagrale: “**Reconfigurable multistage sample rate conversion for software defined radio**”, Ph D thesis, 2008-2011.
- David Ernesto TroncosonRomero: “**Low complexity FIR digital filters: design and applications in communications,**” Ph D thesis, INAOE, 2009-2012.
- Eric Mario Silva Cruz: “**Multirate-based techniques for synchronisation in OFDM systems,**” Ph D thesis, INAOE, 2009-2012.
- Ignacio Rocha Canales, “**Software radio simulation for mobile communications,**” Master’s Thesis INAOE, 2006-2008.

Student host:

- Ana Luisa Rodríguez Ovando, Instituto Tecnológico De Comacalco, Demo program for communications, II part, July 2004.
- Juan Carlos Yris Pastor and Enrique Solis Castillo, Instituto Tecnológico Superior deComacalco: Demo Program for communications, 14-25 July 2003.
- Aldrin Barreto Flores, Luis Reyes Lopez, Oscar Hernandez Utrera, Estudiantes de Tecnológico de Veracruz : Innovation of the DSP Demo, June 1998.

INVITED LECTURES AND COURSES:

- **Modeling of random signals and processes using MATLAB**”, Course at graduate study of Faculty of Mechanical Engineering, University of Sarajevo, (30 hours) by invitation of World University service (WUS) Austrian Development Cooperation, Program BGPlus, Sarajevo, 1-13 , September, 2008.
- **CIC-Based Decimators for Software Radio Applications**, Tutorial 7 of March 2008, IEEE International Conference MIC-CPE 2008, Amman, Jordan.
- **Multirate Signal Processing and Software Radio Applications**, Videoconference, Universidad UDLA, Puebla, Mexico, 21 February , 2008.
- **DSP: Advantages and Applications**, Magistral conference at II Seminario Internacional de Ingeniería Electronica, UPB, Bucanaranga, Colombia, Nov. 2007.

- **DSP: Advantages and Applications**, Course in Workshop by invitation of UPB, (Universidad Pontificia Bolivariana), Faculty of Electronic engineering, Bucanaranga, Colombia, 29 Octubre to 2 of November, 2007 (30 hours), Nov. 2007.
 - **Random signal and processes**, Course at Technical University of Bihac, Bosnia, 13 of Sept. 2007 to 26 of Sept, 2007, (60 hours), by invitation of World University Service WUS, Austria.
 - **Random signal and processes**, Course at University of Mostar, Bosnia, 24 of Sept to 25 of Sept , 2007 and 2 of October to 5 of October, 2007 (30 hours), by invitation of World University Service WUS, Austria.
 - **“DSP for modern communications systems”**, Invited conference by Instituto Tecnologico de Puebla, 10 de mayo 2007.
 - **“DSP for Modern communications systems”**, Invited lecture by Tecnologico de Monterrey (Magistral conference for XXII International Symp.of Electronics and Communications, SIDEC, 22-24 March, 2007.
 - **“Procesamiento de señales digitales, (“Digital signal processing”)** Invited lecture at Institute tecnologico de Tecuitlan, Pue, Mexico, Oct. 2006.
 - **“ Fundamentals of Multirate Systems”** ,
Invited lecture by IEEE Section University of Sarajevo, Faculty of Electrical eng. Bosnia and Herzegovina, September 18, 2006.
 - **“Design and Applications of Multirate Systems”**
Short course, Technical Faculty, Bihac Bosnia and Herzegovina, 19-22 September 2006.
 - **“ Modern Methods for Digital Signal Processing”**
Invited conference, Technical Faculty Bihac, 19 September, 2006.
- **“Procesamiento de senales digitales,” (Digital Signal Processing)**,
Invited conference, 27 October, 2005, Technological Institute, Libres, (Instituto Tecnologico Superior de Libres), Puebla, Mexico.
- **“Fundamentals of multirate systems”**,
Short course by invitation, October, 19-22, 2005, Xidian University, X’ian, China.
- **Presentation of my recent research results (2005)**
Seminar by invitation, October, 21, 2005, Xidian University, X’ian, China.
- **Modern Methods for Decimation Filters Design**,
Short course (20 hours), Technical Faculty, University of Bihac, 12-16 of September, 2005, Bihac, Bosnia and Herzegovina.

- **Modern Methods for Direct IIR Filter Design,**
Seminar, Technical Faculty, University of Bihac, 14 of September, 2005, Bihac, Bosnia and Herzegovina.
- **Digital signal processing,**
Conference for prospective students 2005, INAOE.
- **Modern Communication Systems,**
Invited to deliver the inaugural lecture at the International Symposium on Data, Speech, and Video, 27 of April 2005, University Cristobal Colon and IEEE, Vera Cruz, Mexico.
- **Modern Methods for Digital Filter Design,**
Seminar, 22 April 2005, Technical University of Bihac, Bosnia and Herzegovina, by way of World University Organization (WUS), Austrian Committee.
- **Introduction to MATLAB and Digital Filter Design,**
Course (60 hours), Technical University of Bihac, by way of World University Organization (WUS), Austrian Committee, Bihac, 10-22 April 2005.
- **Techonline University http://www.techonline.com/community/ed_resource/course/**
Develops and delivers online educational resources, products and services designed to facilitate the delivery of training and education to the electronics industry.
TechOnLine's website, (www.techonline.com) is comprised of a worldwide community of over 270,000 engineering professionals. TechOnLine prides itself on providing education and resources to this highly targeted engineering community delivering the latest product updates and technology advances in the form of courses, in-depth technical articles, and industry information. TechOnLine's website (www.techonline.com) provides electronics engineers with information, resources and training materials, plus immediate access to the technical products they need make more informed design decisions.
TechOnLine is headquartered in Bedford, Massachusetts (USA), with offices also in San Jose, California and Austin, Texas.

Following lectures are accepted and published at Techonline University and are online from 2001:

Multirate Systems 1: Downsampling,

Multirate Systems 2: Upsampling,

Multirate Systems 3: Cascading the Upsampler and Downsampler, (First part),

Multirate Systems 4: Cascading the Downsampler and Upsampler (II part).

Courses are within the most popular 20 courses en DSPDesignLine.com

- **Digital signal processing: An overview,**
Invited conference in Panel presentation of the Encyclopedia of Information Science and Technology, Idea Group Publishing, 7 March 2005, Institute of physics, UNAM, DF, Mexico.
- **Diseño de filtros digitales (Digital filter design),**
Invited Conference by Instituto Tecnológico Superior de Comalcalco, (Technological Institute of Comalcalco), Tabasco, 24 de Noviembre 2004.
- **Diseño de filtros digitales con MATLAB (Using MATLAB for Digital Filter Design),**
Invited Conference by Instituto Tecnológico de Nuevo Laredo, (Technological Institute of Nuevo Laredo), Tamaulipas, 12 de Noviembre, 2004.
- **Digital Signal Processing: An Overview,**
Invited Conference by the Technological Institute of Puebla, 25 October, 2004.
- **Procesamiento de Señales Digitales, (Digital Signal Processing),**
Conference for Prospective Students 2004, INAOE, 5 of July, 2004.
- **Modern Methods for Digital Filter Design,**
Lecture by Invitation of Society for Robotics of Bosnia and Herzegovina, 27 of September 2004, Sarajevo, Bosnia & Herzegovina.
- **Digital Filter Design Using MATLAB,**
Course 60 hours, by invitation of the dean of Technical Faculty ,University of Bihac, September, 2004.
- **Diseno de filtros digitales con MATLAB, (Using MATLAB for digital filter design),**
Short course (30 hours), by invitation of Instituto Tecnológico de Merida, (Technological Institute of Merida), 26-30 April 2004.
- **Diseno de filtros digitales con MATLAB, (Digital filter Design),**
Invited Inaugural Conference, CONIEEM 2004, by invitation of Instituto Tecnológico de Merida, (Technologic Institute of Merida), 26-30 April, 2004.
- **Diseno de filtros FIR con fase minima (Design of minimum phase FIR filters),**
Invited Conference, by invitation of Instituto Tecnológico de Tlaxcala, (Technologic Institute of Tlaxcala), 2 of April, 2004, Mexico.
- **Diseño de filtros con fase minima, (Design of minimum phase filters)**
Invited Conference, by invitation of Instituto Tecnológico de Cd Victoria, (Technological Institute of Cd Victoria), November, 17-19, 2003, Mexico.
- **Use of MATLAB for Random Signal Analysis,**
Course by invitation of Instituto Tecnológico de Cd Victoria, (Technological Institute of Cd Victoria), Nov. 17-19, 2003, Mexico.

- **Digital signal Processing- An overview,**
Invited Conference for 1er Encuentro Universitario de Ciencia y Tecnologia Computacional, (First University Conference of Computer Science and Technology), San Pedro Cholula, Puebla, 24-25 Oct. 2003, Mexico.
- **Modern Methods for Digital Filter Design,**
Short course by invitation of University of Bihac, 22/9-27/9, 2003.
- **Minimum phase filter design,**
Conference, by invitation of Instituto Tecnologico de Merida, (Technological Institute of Merida), Mexico, April, 2003
- **Minimum –Phase FIR Filter Design,**
Seminar, by invitation of University of California, Santa Barbara, March 8, 2002.
- **Multirate Systems: Design and Applications,**
Short course, by invitation of Technical Faculty, University of Bihac, Bosnia and Herzegovina, 10-17 October 2002.
- **Multirate Filters,**
Seminar, by invitation of Technical Faculty, University of Bihac, Bosnia and Herzegovina, 10-17 October 2002.
- **The Design of Fractional Delay Filters,**
Seminar by invitation of Technical Faculty, University of Bihac, Bosnia and Herzegovina. 8 August 2001.
- **Design and Implementation of Multirate Filters,**
Seminar, by invitation of Technical Faculty, University of Bihac, Bosnia and Herzegovina. 8-11, August 2001.
- **Design and Applications of Multirate Systems,**
Lecture, by invitation of Advanced Technologies Center, Sarajevo, Bosnia and Herzegovina, July 2000.
- **Multirate Systems,**
Short course, by invitation of Technical Faculty, University of Bihac, Bosnia and Herzegovina, June/ July 2000.
- **Characteristics and Applications of Multirate Systems,**
Invited inaugural conference, 1er Congress International of Electronic Engineering, by invitation of Institute Technological, Vera Cruz, April 2000.
- **Fundamentals of Multirate Systems,**

Invited conference, Interuniversity Congress of Electronics, Computation and Electrotechnique, Aguascaliente, Mexico, March 2000, by invitation of Institute Technological, Aquascaliente.

- **DSP: Multirate Signal Processing,**

Invited conference, National Congress of Electronics, ECE-BUAP99, October 1999, by invitation of BUAP, Puebla.

- **Multirate filter banks: Design and Application,**

Invited conference by invitation of ATC, Sarajevo, Bosnia and Herzegovina, 6-9 September 1999.

- **Multirate filter banks: Design and Application,**

Invited conference, University of Bihac, Sarajevo, Bosnia and Herzegovina, 10-14 September 1999.

- **IFIR filters: Design and Applications,**

Invited conference, Universidad Catolica del Peru, (Catholic University of Peru), Lima, March 1999.

- **IFIR filters: Design and Applications,**

Invited inaugural conference, International Conference ELECTRO 98, Chihuahua, Mexico, Oct. 1998, by invitation of Technological Institute of Chihuahua.

- **Multirate Digital Signal Processing: Algorithms and Applications,**

Invited course, Advanced Technologies Center, ATC, Sarajevo, Bosnia and Herzegovina, 22-30 June 1998.

- **Multirate Digital Signal Processing,**

Invited course, University of Banja Luka, Faculty of Electrical Eng. Banja Luka, Bosnia and Herzegovina, 15-20 June 1998.

- **Spread Spectrum Techniques,**

Invited Course for International Workshop, Cancun, July 1997.

RESEARCH INTEREST AND LIST OF RESEARCH PROJECTS AND TECHNOLOGICAL CONTRIBUTIONS

:

a) My research interests include **Multirate Digital Signal Processing, Digital filter design, Digital Signal Processing, Discrete Signal Analysis, Reliability Analysis, Theory of Digital Communications.**

b) LIST OF RESEARCH PROJECTS:

- 2006-2009 **Multirate Signal Processing for Software Radio**, CONACYT project No. **49640** (Primary investigador and project leader).
- 2000-2002 **“Multirate Implementation of Digital Filters”**, INAOE, Project for CONACYT, 34549-A MIODF. (Primary investigator and project leader).
- 1997-1999 **“Algorithms, Applications and Implementations of Multirate Digital Signal Processing”**, INAOE, Project for CONACYT, 211290-5-3009PA. (Primary investigator and project leader).
- 1993-1995 **“Application of Digital Signal Processing in Telecommunication”**, *Institute Mihailo Pupin, University of Beograd.* (Researcher). (Realized for: Research Funding Agency of Serbia).
- 1993-1995 **"Developing tools for DSP learning"** *Institute Mihailo Pupin, Beograd.* (Realized for: Research Funding Agency of Serbia). (Researcher)
- 1988 - 1992 **"Digital Signal Processing"**, *School of Electrical Eng. University of Sarajevo.* (Primary investigator).
 (A basic research project, part of the strategic project PRODUCTICA of the Republic of Bosnia and Herzegovina, (Phase I: 1988 - 1992), primary investigator.
 The strategic project PRODUCTICA is the biggest research project ever funded in Bosnia and Herzegovina. It consists of 38 projects organized in 13 segments. 1500 researchers and collaborators from 4 universities and industry institutes from largest companies are participating in it. The project is financed by the PRODUCTICA Consortium and the Research Funding Agency of Bosnia and Herzegovina. The work was unexpectedly interrupted in the beginning of April 1992, when the war in Sarajevo started.
- 1988 - 1992 **"Technical-Economic Sociological Models in Productica"**, *School of Mechanical Eng., University of Sarajevo.* (Co-primary investigator). (A basic research project, part of the strategic project PRODUCTICA of the Republic of Bosnia and Herzegovina, (Phase I: 1988 - 1992), researcher.
- 1988 - 1992 **"Graph"**, *School of Electrical Eng., University of Sarajevo.* (Realized for: Federal Research Funding Agency of Yugoslavia, Belgrade - Zagreb - Sarajevo). (Primary investigator).

- 1988 - 1992 **"Application of Graph Theory to Reliability Analysis"**, *School of Electrical Eng., University of Sarajevo.*
(Realized for: Research Funding Agency of Bosnia - Sarajevo). (Primary investigator).
- 1985 - 1989 **"Perspectives of Digital Telecommunications Development in Bosnia and Herzegovina"**, *Unis Institute, University of Sarajevo* . (Primary investigator and project leader).
- 1977 - 1979 **"Karsts Water Resources and Hidrology"**, (*Yugoslavian - USA project, Institute of Hydrotechnique, University of Sarajevo.*) (Primary investigator).
- 1977 - 1979 **"Application of Graph Theory in Study of Water Transport Problems"**, *Institute of Hydrotechnique , University of Sarajevo*, (Primary investigator).
- 1970 **"Dynamics Characteristics of Different Objects of Control"**, (*Yugoslavian - USSR project, Institute IRCA Energoinvest, University of Sarajevo*), (Primary investigator).
- 1970 **"Study and Classification of Dynamic Models"**, (*Yugoslavian - USSR project, Institute IRCA Energoinvest, University of Sarajevo*), (Primary investigator).

c) TECHNOLOGICAL CONTRIBUTIONS

- [2] SensorDynamics AG, (<http://www.sensordynamics.cc/cms/cms.php>) from Austria will implement my CIC-based decimator for wireless low power sensors.
- [1] Furuno from Japon (<http://www.furuno.com/>) implemented very narrow bandpass filter proposed by my students and me.

PUBLICATIONS:

("Sc" indicates publication is in Serbo-Croatian;
all others are published in English and Spanish)

A) BOOKS:

- [4] G.Jovanovic-Dolecek, (editor): *"Multirate Systems: Design and Applications"*, Published in USA by *Idea G. Publishing*, Hershey, PA, and in the United Kingdom by

Idea G. Publishing, London, UK, 2002. (paper and electronic edition). (302 pp).
ISBN 1-930708-30-0.

- [3] Humo, E., Jovanovic-Dolecek G., "***Control Theory Problems***", (sc), *University of Sarajevo*, Sarajevo 1973, *Svjetlost Sarajevo*, Sarajevo 1988. (392 pp.)
ISBN 86-01-02249-9.
- [2] Jovanovic-Dolecek, G.: "***Random Variables and Processes in Telecommunications***", (sc), *Svjetlost Sarajevo*, Sarajevo, 1987, (383 pp.).
ISBN 86-01-00506-3.
- [1] Jovanovic-Dolecek, G.: "***Applications of Graph Theory in Telecommunications***", (sc), *Veselin Maslesa Sarajevo*, Sarajevo 1984. (101 pp.).

B) SOFTWARES

- [14] **MuDSPDEMO**- Educational software for Multirate Digital Signal Processing, INAOE, 1999. (Version for Matlab V).
- [13] **STFT**-Educational Software Package for Short-Time Fourier Transform, INAOE, 1998.
- [12] **PARPDS** – Educational Software for Parametric Power Density Spectrum Estimation, INAOE 1998
- [11] **MATLAB Package for Design Half and M-The Band Filters**, INAOE 1998.
- [10] **MuRaDSP** - Educational software for Multirate Digital Signal Processing, INAOE, 1996.
- [9] **CGT** - Demo Software for Central Limit Theorem, INAOE, 1996.
- [8] **RANDEMO**- Educational Software for Random Signal Analysis, INAOE, 1996.
- [7] **FASRS**, Demo Package for Fourier Analysis of Stationary Random Signals, INAOE, 1996.
- [6] **DSPDEMO**, Educational Software for Fundamentals of Digital Signal Processing, INAOE, 1995.
- [5] **FIRDEMO**, Demo Package for FIR Filter Design, INAOE, 1995.
- [4] **IIRDEMO**, Demo Package for IIR Filter Design, INAOE, 1995.

- [3] **NPPSGS**, Package for Nonparametric Spectral Estimation, Institute Mihailo Pupin, University of Belgrade, Yugoslavia, 1994.
- [2] **GENRAND**, Package for Random Sequences Generation, Institute Mihailo Pupin, University of Belgrade, Yugoslavia, 1994.
- [1] **STTDEMO**, Demo Package for Statistics, Institute Mihailo Pupin, University of Belgrade, 1993.

REMARQUE:

- Software [14] is recommended by Dr. Lawrence P. Huelsman, University of Arizona, USA, in his column PC Programs for Engineers, *IEEE Journal Circuits & Devices*, **September 2001, pp.3-4**. This program is distributed all over the world by University of Arizona.

C) BOOK CHAPTERS: 15

- [15] Alfonso Fernandez Vazquez and Gordana Jovanovic Dolecek, “**All pole filters-based direct design of Infinite Impulse Response Filters,**” Accepted for book: **Recent Advances in Signal Processing**, ISBN 978 953 -7619-41-1., *Intechweb.org*.
- [14] G. Jovanovic Dolecek,” **Digital filters: Design and Applications,**” Accepted for upcoming *Encyclopedia of Information Science and Technology*, Second Edition, (Publication in Jan. 2009), IGP, USA.
- [13] G. Jovanovic Dolecek, “ **Fundamentals of Multirate Systems**, Accepted for upcoming *Encyclopedia of Information Science and Technology*, Second Edition, (Publication in Jan. 2009), IGP, USA.
- [12] G. Jovanovic Dolecek and J. Diaz Carmona, “**On Design of Narrowband FIR Lowpass Filters,**” Accepted for upcoming *Encyclopedia of Information Science and Technology*, Second Edition, (Publication in Jan. 2009), IGP, USA.
- [11] G. Jovanovic Dolecek: “**Digital filters: An Overview**”, Accepted for upcoming *Encyclopedia of Multimedia Technology and Networking* 2nd Edition, edited by M. Pagani (Italy). (Publication in Jan. 2009), IGP, USA.
- [10] G. Jovanovic Dolecek and A. Fernandez Vazquez, : “**Digital Filters for Audio Effects**”, Chapter II in book :*Advances in Audio and Speech Signal Processing: Technologies and Applications*, edited by H.P. Meana, IGI Global, USA 2007, pp.22-56.

- [9] G. Jovanovic Dolecek and J. Diaz Carmona: “ **One Method for Design of Narrowband Lowpass Filters**”, *Encyclopedia of Information Science and Technology*, Published in USA by *Idea Group Publishing, Hershey, PA, USA*, January 2005, pp.2185-2193.
ISBN: 1-59140-533-X.
- [8] G. Jovanovic Dolecek: “**Simple Method for Design of Narrowband Highpass FIR Filters**”, *Encyclopedia of Information Science and Technology*, Published in USA by *Idea Group Publishing, Hershey, PA, USA*, January 2005, pp. 2492-2498.
ISBN: 1-59140-533-X.
- [7] G. Jovanovic Dolecek:” **Fundamentals of Multirate Systems**”, *Encyclopedia of Information Science and Technology Encyclopedia of Information Science and Technology*, Published in USA by *Idea Group Publishing, Hershey, PA, USA*, January 2005, pp.1249-1252.
ISBN: 1-59140-533-X.
- [6] G. Jovanovic Dolecek:” **Digital filters**”, *Encyclopedia of Multimedia Technology and Networking*, edited by Margherita Pagani, (Mocconi University, Italy), *IGP Press*, May 2005, USA, pp.180-196.
ISBN: 1-59140-561-0.
- [5] G.Jovanovic-Dolecek and Javier Diaz Carmona, “ **One Method for Design of Narrowband Lowpass Filters**”, Chapter XVII in the book *Practicing Software Engineering in the 21st Century*, edited by Dr. Joan Peckham and Dr. Scott J. Llyod, Published in USA by *IRM Press Book*, Hershey, PA, USA, 2003 and London, UK, 2003, pp.258-271.
ISBN 1-931777-50-0.
- [4] G. Jovanovic-Dolecek, “ **Design of Narrowband Highpass FIR Filters Using Sharpening RRS Filter and IFIR Structure**”, Chapter XVIII, book: *Practicing Software Engineering in the 21st Century*, edited by Dr. Joan Peckham and Dr. Scott J. Llyod, Published in USA by *IRM Press Book*, Hershey, PA, USA, 2003 and London, UK, 2003, pp.272-294.
ISBN 1-931777-50-0.
- [3] G. Jovanovic-Dolecek, “**Introduction to Multirate Systems**”, Chapter 1 , Book *Multirate Systems: Design and Applications*, edited by G.J. Dolecek, Published in USA by *Idea G. Publishing*, Hershey, PA, and in the United Kingdom by *Idea G. Publishing* , London, UK, 2002, (cloth and electronic edition).
ISBN 1-930708-30-0.
- [2] J. Silva Martinez, G. Jovanovic-Dolecek, "**Discrete-time filters**", Chapter in *Wiley Encyclopedia of Electrical and Electronics Engineering*, edited by John G. Webster, John Wiley & Sons, Inc. 1999, (Printed in USA and Canada), ISBN 0-471-13946-7, vol.5, pp.631-643.

- [1] G. Jovanovic-Dolecek, “**Multistage structures for High Order Linear Phase Digital Filters**”, Paper printed in the book *Advances in Systems, Signals, Control and Computer*, vol.2, .Edited by V. B. Bajic. Published in South Africa by IAAMSAD and the *South African Branch of The Academy of Nonlinear Sciences*, ISBN-0620-23135-1. pp 169-177, 1998.

D. JOURNAL PAPERS: 31

- [31] G. Jovanovic Dolecek and V. Dolecek, “ **Application of Rouché’s theorem for MP filter design,**” Accepted for *Applied Mathematics and Computation*.(Elsevier).
(ISI citation)
- [30] G. Jovanovic Dolecek and A. Fernandez Vazquez, “ **Use of MATLAB in Teaching the Fundamentals of Random Variables**” *Journal of ACM SIGCSE Bulletin*, ISSN: 0097-8418, Vol.40, No. 4, December 2008, pp.46-51.
- [29] G. Jovanovic Dolecek and Sanjit K. Mitra, “**Á Simple Method for the Compensation of CIC Decimation Filter,**” *Electronics letters*, IET (former IEE) UK, September 11, 2008, vol.44, Issue 19, pp. 1162-1163.
(ISI citation)
- [28] G. Jovanovic Dolecek, “**Modified CIC filter for Rational Sample Rate Conversion**”, accepted for *ECTI Transactions* , Special issue in IT .
- [27] G. Jovanovic Dolecek, and Fernando Trejo, “**Compensated CIC-Cosine Decimation Filter**”, accepted for *ECTI Transactions* , Special issue in IT .
- [26] G. Jovanovic Dolecek and Sanjit K. Mitra, "**Symbolic Sensitivity Analysis of the new second-order IIR Structure "**, *Journal Ingenieria Investigacion y Tecnologia*, ISSN 405 7743, vol.IX, No.1, January-March, 2008, pp.59-65.
- [25] A. Fernandez Vazquez, and G. Jovanovic Dolecek, “**Design of Linear Phase IIR Filters With Flat magnitude Response Using Complex Coefficients Allpole Filters**”,*Journal Computacion Y Sistemas*.(Publication 2008), ISSN 1405-5546, vol.10, N04, April-June 2007, pp.335-356.
- [24] G. Jovanovic Dolecek, and S.K. Mitra, “**Computationally Efficient Multiplier-Free FIR Filter Design**” *Journal Computacion Y Sistemas*. ISSN 1405-5546, 2007, vol.10 N03, January-March, 2007, pp.251-268.
- [23] J. Diaz Carmona, G. Jovanovic Dolecek, J. Alfredo Padilla, “**An Algorithm for**

- Computing Design Parameters of IFIR Filters with Low Complexity**, “ *Journal Computacion Y Sistemas*. vol.10, N0.2, October-December 2006, pp.99-106. ISSN 1405-5546.
- [22] G. Jovanovic Dolecek, and S. K. Mitra, “**Symbolic Sensitivity Analysis of IIR Digital Filters Using MATLAB**,” , *Taylor & Francis, International Journal of Control*, Special Issue on the Use of Computer Algebra Systems for Computer Aided Control System Design, Vol.79, No11, Nov. 2006, pp.1331-1339.
- [21] A. Fernandez Vazquez, and G. Jovanovic Dolecek, “**A New Method for the Design of IIR Filters With Flat Magnitude Response**”, *Journal IEEE Transactions on Circuits and Systems, TCAS I: Regular Papers*, Vol. 53, No 8, August 2006, pp. 1761-1771.
- [20] G. Jovanovic Dolecek, M. M. Alvarez, and M. Martinez, “ **One simple method for design of multiplierless FIR filters**, “ *Journal of Applied Research and Technology*, vol.3, No.2, August 2005, pp.125-138.
- [19] J. Diaz Carmona, G. Jovanovic Dolecek: “**Diseño de filtros FIR de retraso fraccionario mediante optimizacion en frecuencia**. *Journal Revista Internacional, Información Tecnológica*, ISSN 0716-8756, vol.16, No3, 2005, pp.81-88.
- [18] G. Jovanovic-Dolecek, and S. K. Mitra, “ **A new multistage comb-modified rotated sinc (RS) decimator with sharpened magnitude response**”, *Journal IEICE Transactions on Information and Systems: Special Issue on Recent Advances in Circuits and Systems*, (Japan) vol.E88-D, No.7, 2005, pp.1331-1339.
- [17] G. Jovanovic-Dolecek, and S. K. Mitra:” **A New Two-stage Sharpened Comb Decimator**”, *Journal IEEE Transactions on Circuits and Systems, TCAS I: Regular Papers*, vol.52, N07, July 2005, pp.1414-1420.
- [16] G. Jovanovic-Dolecek and J. Diaz-Carmona, “**Digital all-pass filter design method based on complex cepstrum**”, *Journal, Electronics Letters*, IEE United Kingdom, vol.39. No. 8, 17th April 2003, pp.695-697.
- [15] G. Jovanovic-Dolecek, and S. K. Mitra,” **A new low sensitivity second-order bandpas digital filter structure**”, *Journal, Electronics Letters IEE United Kingdom*, vol.38, No.16. 1st August 2002, pp.858-860.
- [14] G. Jovanovic-Dolecek and J. Diaz Carmona, ”**One Structure for a Fractional Delay Filter with a Small Number of Multipliers**”, ”, *Journal Electronics Letters IEE United Kingdom*, vol.38, No.19, 12th September 2002, pp.1083-1084.
- [13] G.Jovanovic-Dolecek and J. Diaz Carmona, “ **An Efficient Narrow Bandpass Filter Structure**”, *Journal Scientific, Transactions on Automatic Control and Computer Science*, ISSN 1224-600X, vol.47 (61), 2002.

- [12] O. G. Ibarra-Manzano, Y. Shkvarko, R. Jaime-Rivas, J.A. Andrade-Lucio, and G. Jovanovic-Dolecek, “ **Optimization of Perfect Reconstruction Cosine-Modulated Filter banks: Fast Algorithm,**” *Journal Telecommunications and Radio Engineering*, ISSN 0040-2508, vol. 56 No. 12, 2001, pp.56-63.
- [11] G. Jovanovic Dolecek, V. Dolecek, “**Method for narrowband minimum phase filter design**”, *Journal Electronics Letters IEE United Kingdom*, vol.37, No.5, 1st March 2001, pp.324-325.
- [10] G. Jovanovic-Dolecek, J. M. Madrigal, I. O. G. Ibarra-Manzano, “ **MuDSPDEMO-Demo Package for Multirate Digital Signal Processing**”, *Journal Computer Applications in Engineering Education*, John Wiley & Sons, Inc., ISSN 1061-3773, vol.8, 2000, pp. 132-138.
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- [8] G. Jovanovic-Dolecek, “**Use of Computers for Learning Basic Concepts of Sampling Rate Alteration**”, *Journal Computer Applications in Engineering Education*, John Wiley & Sons, Inc., ISSN 1061-3773, vol.8, No.3 and 4, 2000, Special Issue, pp.191-195.
- [7] G. Jovanovic-Dolecek, V. Champac, “**CGTDEMO- Educational Software for the Central Limit Theorem**”, *Journal ACM Press*, NY, USA, *SIGCSE Bulletin*, vol.32, No2, June 2000, pp.46-48.
- [6] G. Jovanovic-Dolecek, J. Diaz Carmona, “**Minimum-Phase Filter Design Using IFIR Structure**”, *Cientifica*, *Journal of the National Polytechnic Institute of Mexico*, No.13, January-February, 1999, pp. 17-24.
- [5] G. Jovanovic-Dolecek, A. Sarmiento Reyes , "An Efficient Method for Narrowband FIR Filter Design", *Journal Computacion y Sistemas*, vol.II, Double Issue, No1 and 3, Oct-Dec/98, Jan-Mar/99, pp.78-86.
- [4] G. Jovanovic-Dolecek, J. Diaz Carmona., “**Lowpass minimum phase filters design using IFIR filters**”, *Journal Electronics Letters*, IEE United Kingdom, 6th November 1997 vol.33, No.23, pp.1933-1935.
- [3] G. Jovanovic-Dolecek : “**FASRS - Demo Package for Fourier Analysis of Stationary Random Signals**” , *Journal ACM Press*, NY, USA, *SIGCSE Bulletin*, vol.29, No2, June 1997 pp.46-53.
- [2] G. Jovanovic-Dolecek G., “**RANDEMO - Educational Software for Random Signal Analysis**”, *Journal Computer Applications in Engineering Education*, John Wiley & Sons, Inc., John Wiley & Sons, Inc., ISSN 1061-3773, vol.5, No2, 1997. pp.93-97.

- [1] G. Jovanovic Dolecek, “ **GENRAND package for different random sequences generation**”, Special Issue of Transactions on Automatic, Control and Computer Science and Engineering, Faculty of Automation and Computer Science and Engineerin, Temisoara, Romania, ISSN 1224-600X, 2004, vol.2, pp27-34

E. CONFERENCE PAPERS PUBLISHED IN BOOKS WITH REVIEW: 7

[7] G. Jovanovic Dolecek, V. Dolecek, I. Karabegovic, “ **One Method for Design of Lowpass Narrowband FIR Filters Using Sharpened Modified RRS Filter**”, Paper printed in the book: *Innovations Through Information Technology*, edited by Mehdi Khosrow-Pour, *IGP Press*, 2004, USA, ISBN 1591402611, pp.1231-1232.

[6] G. Jovanovic-Dolecek, M.M. Alvarez, Marcos Martinez, “ **One Simple Method for Design of Multiplierless FIR Filters**”, Paper printed in the book: *Innovations Through Information Technology*, edited by Mehdi Khosrow-Pour, *IGP* 2004, USA, ISBN 1591402611, pp.593-594.

[5] G. Jovanovic Dolecek, V. Dolecek, and I. Karabegovic, “**Design of Lowpass Narrowband FIR Filters Using IFIR and Modified RRS Filter**,” This paper is printed in the book: M. Khosrow-Pour (Editor): *Information Technology & Organizations: trends, Issues, Challenges & Solutions*, IGP 2003, USA, ISBN 1-59140-066-x, pp.744-745.

[4] G. Jovanovic Dolecek, V. Dolecek, and I. Karabegovic, “ **A Method for Narrowband HP FIR Filter Design Using Fewer Multiplications**,” This paper is printed in the book: M. Khosrow-Pour (Editor): *Issues & Trends of Information Technology Management in Conterporary Organizations*, vol.1, IGP, 2002, USA, ISBN: 1-930708-39-4, pp.302-304.

[3] G. Jovanovic Dolecek and J. Diaz Carmona, “ One Method for Design of Lowpass Narrowband Filters,” This paper is printed in the book: M. Khosrow-Pour (Editor): *Issues & Trends of Information Technology Management in Conterporary Organizations*, vol.1, IGP, 2002, USA, ISBN: 1-930708-39-4, pp.300-301.

[2] G.Jovanovic-Dolecek: “**An Efficient Method for Narrowband Bandpass FIR Filter Design**”, Paper printed in the book: Mehdi Khosrowpour (editor): *Challenges of Information Technology Management in the 21st Century*, Published in USA and in the United Kingdom by *Idea Group Publishing*, 2000, ISBN 1-878289-84-5. pp.906-907.

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Organizations in the Next Millennium, edited by Mehdi Khosrowpour. Published in the USA and in the United Kingdom by Idea Group Publishing 1999. ISBN 1-878289-51-9. pp 820-822.

E. FULL PAPERS IN PROCEEDINGS WITH REVIEW: 197

- [197] G. Jovanovic Dolecek and Fred Harris, "**Understanding Histograms, Probability and Probability Density Using MATLAB**," Accepted for *ASEE PSW-2009*, San Diego, March, 2009.
- [196] G. Jovanovic Dolecek and Fred Harris, "**MATLAB-based Demo Program for Discrete-Time Convolution**," Accepted for *ASEE PSW-2009*, San Diego, March, 2009.
- [195] Gordana Jovanovic Dolecek and Fred Harris, "**Design of CIC Compensator Filter in a Digital IF Receiver**," *2008 IEEE International Symposium on Communications and Information Technologies, ISCIT 2008*, October, Vientiane, Lao PDR.
(Proc. IEEE Catalog Number: CFP08830-CDR, ISBN: 978-1-4244-2336-1, Library of Congress: 2008902851, pp.638-643)
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(Proc. IEEE Catalog Number: CFP08830-CDR, ISBN: 978-1-4244-2336-1, Library of Congress: 2008902851, pp. 289-294.)
- [193] Gordana Jovanovic Dolecek and Vlatko Dolecek, "**Multistage CIC Filters for Subband Tuning**," *12 th International Research/Expert Conference, Trends in the Development of Machinery and Associated Technology, TMT2008*, Istanbul, Turkey, 26-30 August, 2008.
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