CURRICULUM VITAE

GORDANA JOVANOVIC DOLECEK
(January 2018)

PRESENT POSITION
Full professor
Department of Electronics
National Institute for Astrophysics, Optics and Electronics
Puebla, Mexico.
Member of SNI II
Senior member IEEE
Member of Mexican Academy of Sciences, since 18 October 2005**.**

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EDUCATION

Ph.D.	(1981)	School of Electrical Engineering, University of Sarajevo.
M.S.	(1975)	The Center for Multidisciplinary Studies, University of Belgrade.
B.Sc.	(1969)	School of Electrical Engineering, University of Sarajevo.

PROFESSIONAL CAREER

2016, October-2017, September	University of California, Los Angeles, (UCLA), Department for Electrical and Computer Eng., visiting scholar.
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	University of California, Santa Barbara, ECE Department, visiting scholar.
1995-now	Institute National INAOE, Puebla, Mexico.

1993-1995 Institute Mihailo Pupin, University of Belgrade, Serbia.

1971-1995 School of Electrical Engineering, University of Sarajevo, Bosnia and Herzegovina.

1969-1995 Institute of Energoinvest, IRCA, University of Sarajevo, Bosnia and herzegovina.

PROFESIONAL APPOINTMENTS:

Associate Editor

- ***IET Signal Processing*** (2017-2019)
- ***IEEE Transactions On Circuits and Systems I: Regular papers*** (2018-2019), (2016-2017)
- ***IEEE Transactions On Circuits and Systems II*** (2014-2015)
- ***World Cientific Journal*** (2014-2015)

Guest Editor

2009 Guest editor for **Special Issue on Advanced Techniques on Multirate Signal Processing for Digital Information Processing,** Journal *IET Signal Processing,* (SCI).

Editorial houses

2007-2010 Member of *IGI Global* Editorial Advisory Review Board, USA

Reviewer for international journals: 30

*Member of international technical program committee (TPC):*50

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, Theory of Digital Communication, Novel teaching methods for DSP and Communications.**

THESIS SUPERVISED IN MEXICO

Ph D thesis: 7 completed and 1 in progress.
Master's thesis: 30 completed and 2 in progress.
B. Sci thesis: 2 completed.

AWARDS and RECOGNITIONS

2016 Certificate for highly cited research in AEUE- International Journal for Electronics and Communications.

2014 The paper with my PhD student G. Salgado received Top 10 Student Paper Award at the Internat. Symp- MWSCAS 2014 at College Station, Texas, USA.

2014 PhD poster of my PhD student G. Salgado is recognized by International committee as one of the best 3 posters (second place) at the Int. Conf. VLSI SOC-2014

2013 Best Paper Award International Conference CIIECC 2013.

2012 Puebla state award for achievements in electronics.

2010 Published biography in the book: Who is who in BH Diaspora: Scientifics (Phd and reserchers), BH government, Sarajevo

2010 Acknowledgement of Gianluca Setti, outgoing TCAS-I Editor-in-Chief and Wouter A. Serdijn, Incoming TCAS-I Editor-in-Chief for the support for achieving the current status of the journal.

2009 Acknowledgement of CDI Institute INAOE for the extraordinary results during the sabbatical at SDSU, USA.

2009 The paper #1569191876 ("On the Design of GCF compensation Filter based on Minimax Optimization") which was presented at the 17th European Signal Processing Conference (EUSIPCO 2009) in Glasgow, Scotland, reviewers had rated amongst the top 5% of the presented papers.

2008 The course Multirate Systems I was elected as the most popular at DSP DESIGN Line .

2005 Member of Mexican Academy of Sciences, since 18 October 2005**.**

2004 Senior member of IEEE since 2004.

2000 Diploma given by the mayor of Vera Cruz: “Visitante distingida”, (“Distinguished Visitor”), April 2000.

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 achievement.

INVITED LECTURES and TUTORIALS (last 7)

2017 **"Random signals and processes",** Seminar by invitation IEEE Section Bosnia and Herzegovina, Sarajevo, Sept. 2017.

2016 **"Everything you wanted to know about random signals and processes but were afraid to ask",** Seminar, for Faculty of Electr. Eng. Banjaluka, Bosnia and Herzegovina, Sept. 2016.

2015 **"Everything you wanted to know about random signals and processes but were afraid to ask",** Tutorial, for Tec de Monterey, June 2015, INAOE**.**

2015 **"Comb-based decimation filters for Sigma-Delta A/D converters: algorithms and implementation", (with. J. de la Rosa and G. Molina Salgado),** Tutorial at IEEE *LASCAS 2015*, *IBERCHIP 2015*, February 2015, Montevideo, Uruguay.

2013 **"CIC based decimators",** Seminar, Tsinhua University, Beijing, 24 of May, 2013.

2012 **"CIC based decimators", CESNAV,** 11 Dec 2012.

2010 **"Fundamentals of Multirate Systems",** Tutorial 3rd October 2010 IEEE Symposium on Industrial Electronics & Applications, ISIEA 2010, Malaysia.

SPECIAL SESSION

- G. Jovanovic Dolecek, G. Molina Salgado and J. de la Rosa, "**Efficient comb-based decimation filters for high-performance sigma-delta converters, "** Special Session, ISCAS 2014, Melbourn, Australia.

RESEARCH INTEREST AND LIST OF RESEARCH PROJECTS

My research interests include **Multirate Digital Signal Processing, Digital filter design, Digital Signal Processing, DSP Education, Discrete Signal Analysis, Reliability Analysis, Theory of Digital Communications, Modern methods for educations.**

LIST OF RESEARCH PROJECTS: (Last 7)

2016 **Channel Coding and Signal Processing for Resilient, Ultra-Dense Mem**
Research Grant, UCMEXUS, with UCLA LA USA. Co-PI . (2016-2018)

2014 **Sigma-Delta Analog to Digital Converters: The promising Digitalizaction Scheme for Future Communication Systems,**

CONACYT project infraestructura 2014-2015.

2013 **Power Efficient High-Performance Sigma/Delta Digitizers with Decimating Filter for Wireless Comunication Systems,** Texas A&M USA, Collaborative research grant (2013-2014).

2012 **Multirate signal processing for software radio ,** CONACYT project 179587, (2013-2017), (PI)

2011 **Redundant Filter Banks for Transceiver Systems in Digital Communications,** CONACyT project N0. 157858. (collaboration)

2011 **Channel Codes for Emerging Highly Reliable Systems: Efficient Algorithms and Performance Guarantees,"** UCMEXUS Collaborative Research Grant, with UCLA LA USA. Co-PI . (2013-2014)

PUBLICATIONS:

BOOKS: 6 (Last 3)

2018 G. Jovanovic-Dolecek**,** (Editor), **"Advances in Multirate Systems"** *Springe*r 2017 N.Y, USA. ISBN 978-3-319-59273-2, ISBN 978-3-319-59274-9 (eBook).

2013 G. Jovanovic-Dolecek, "**Random Signal and Processes Primer With MATLAB**", *Springe*r 2013 N.Y, USA. (528 pages) , ISBN 978-1-4614-2385-0, ISBN 978-1-4614-2386-7 (eBook)

2002 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.

BOOK CHAPTERS: 28 (Last 6)

2018 Gordana Jovanovic Dolecek, "**Methods for improving magnitude characteristic of comb decimation filters**," Chapter in book. G. Jovanovic Dolecek (Ed) "Advances in Multirate Systems", Springer 2017, pp.59-83.

2018 Gordana Jovanovic Dolecek, "**Methods for Improving Alias Rejections in Comb Filters",** Encyclopedia of Information Science and Technology, Fourth Edition, *Category: IT Research and Theory,* pp. 4746-4760*, IGP, USA.*

2018 Gordana Jovanovic Dolecek, "**Methods for Simultaneous Improvement of Comb Pass Band and Folding Bands**", Encyclopedia of Information Science and Technology, Fourth Edition, *Category: Mobile and Wireless Computing,* pp. 6171-6183*, IGP, USA.*

2018 Gordana Jovanovic Dolecek, "**Design of Compensators for Comb Decimation Filters",** Encyclopedia of Information Science and Technology, Fourth Edition,*Category: Mobile and Wireless Computing,* pp. 6043-6056*, IGP, USA.*

2018 Miriam Guadalupe Cruz Jimenez, David Ernesto Troncoso Romero, and Gordana Jovanovic Dolecek **, "Comb Filters Characteristics and Current Applications",** Encyclopedia of Information Science and Technology Category: *Mobile and Wireless Computing*, pp. 6007-6018, *IGP, USA.*

2018 David Ernesto Troncoso Romero, Gordana Jovanovic Dolecek**, "Novel Methods to Design Low-Complexity Digital Finite Impulse Response (FIR) Filters",** Encyclopedia of Information Science and Technology Category: *Mobile and Wireless Computing*, pp.6234-6244, *IGP, USA.*

INTERNATIONAL JOURNAL PAPERS WITH REVIEW: Total :75
(Last eight years: 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010)

2017

- M. G. Cruz Jimenez, U. Meyer-Baese, G. Jovanovic Dolecek, "**Theoretical lower bounds for parallel pipelined shift-and-add constant multiplications with n-input arithmetic operators,"** *EURASIP Journal on Advances in Signal Processing,* ISSN: 1687-6180 (Online) 2017, No.31, DOI 10.1186/s13634-017-0466-z, pp.1-13.

- G. Jovanovic Dolecek, J. R. Garcia Baez, and M. Laddomada, **"Design of Efficient Multiplierless Modified Cosine-Based Comb Decimation Filters: Analysis and Implementation,** " *IEEE Transactions on Circuits I: Regular papers*, (ISSN: 1549-8328), May 2017, vol.64, N0.5, pp. 1051-1063.

- M. G. Cruz Jimenez, U. Meyer-Baese and G. Jovanovic Dolecek, **"Computationally efficient CIC-based filter with embedded Chebyshev sharpening for the improvement of aliasing rejection,"** *Electronics Letters*, (ISSN: 0013-5194, 16th February 2017, vol. 53, No. 4, pp.281-283.

- G. Jovanovic Dolecek, R. Garcia Baez, G. Molina Salgado, and J. M. de la Rosa:" **Novel multiplierless wideband comb compensator with high compensation capability,**" *Circuits, Systems and Signal Processing,* ISSN: 0278-081X (Print) 1531-5878 (Online)), May 2017, Volume 36, Issue 5, pp. 2031–2049.

- R. Garcia Baez, G. Jovanovic Dolecek**,"On simple comb zero rotation: Rouche'stheorem approach,"***International Journal of Electronics*, ISSN Print: 0020-7217 Online ISSN: 1362-3060, vol.104, Issue 4, 2017, pp. 569-582.

2016

- G. Molina Salgado, G.Jovanovic Dolecek, and J. de la Rosa, "**Low Power Two-Stage Comb Decimation Structures for High Decimation Factors",** *Analog Integrated Circuits and Signal Processing,* ISSN: 0925-1030, 2016, August 2016, Volume 88, No.2 pp 245-254.

2015

- David Ernesto Troncoso Romero, Gerardo Molina Salgado, Gordana Jovanovic Dolecek Dolecek, "**Simple two-adders CIC compensator",** *Electronics, letters*, ISSN: 0013-5194, 25th June 2015 Vol. 51 No. 13 pp. 993-994.

- Miriam Guadalupe Cruz Jiménez, David Ernesto Troncoso Romero, and Gordana Jovanovic Dolecek, " **Minimum Phase Property of Chebyshev-Sharpened Cosine Filters,"** *Mathematical Problems in Engineering***,** ISSN: 1563-5147, Vol. 2015, (2015), **Article ID 936958, http://dx.doi.org/10.1155/2015/936958**

- G. Jovanovic Dolecek, M. Laddomada, "**Design of Two-Stage Nonrecursive Rotated Comb Decimation Filters with Droop Compensation and Multiplierless Architecture",** *Journal of the Franklin Institute*, (ISSN: 0016-0032), vol. 352, No.3, March 2015, pp.913-929.

2014

- D. Troncoso, U. Meyer Baese, G. Jovanovic Dolecek, **"On the inclusion of prime factors to calculate the theoretical lower bounds in multiplierless single constant multiplications,"** *Eurasip Journal on Advances in Signal Processing*, (ISSN:1687-6180),2014, vol.122, pp.1-9..

- A. Fernandez-Vazquez, and G. Jovanovic Dolecek, "**Generalized Chebyshev Filters for the Design of IIR Filters and Filter Banks**", *Circuits, Systems and Signal Processing,* (*Springer*) (ISSN 0278-081X), 2014. vol.33, No.7, pp.2237–2250.

- G. Jovanovic Dolecek and A. Fernandez-Vazquez, "**Trigonometrical Approach to Design a Simple Wideband Comb Compensator",** *International Journal for Electronics and Communications* (AEUE) (ISSN: 1434-8411), vol. 68, No.5, May 2014, pp. 437–441.

- G. Molina-Salgado, A. Morgado, G. Jovanovic Dolecek, and Jose M..de la Rosa, "**LC-based Bandpass Continuous-Time Sigma-Delta Modulators with Widely Tunable Notch Frequency**,"*IEEE Transactions on Circuits and Systems I: Regular papers,* (ISSN: 1549-8328), Vol. 61, No. 5, May 2014, pp.1442 – 1455.

2013

- D. E. T. Romero, G. J. Dolecek, "**Application of amplitude transformation for compensation of comb decimation filters"** *Electronics letters*, **(**ISSN: 0013-5194). 1st August 2013 Vol. 49 No. 16, pp**.** 985 – 987.

- G. Jovanovic Dolecek and Massimiliano Laddomada "**An Improved Class of Multiplierless Decimation Filters: Analysis and Design",** Elsevier *Digital Signal Processing*, (ISSN: 1051-2004), Vol. 23, Issue 5, September 2013, pp. 1773–1782.

- G. Jovanovic Dolecek and A. Fernandez-Vazquez, "**Novel droop-compensated comb decimation filter with improved alias rejections**, " (ISSN: 1434-8411), *AEU International Journal for Electronics and Communication*, vol.67, Issue 5, May 2013, pp.387-396.

- Fernandez-Vazquez and G. Jovanovic Dolecek ,"**Complex-Valued Thiran Allpole Filters**", *Elsevier Digital Signal Processing,(*ISSN: 1051-2004), 2013, vol.23, Issue 1, January 2013, pp.433-441.

- G. Jovanovic Dolecek, "I**nteractive MATLAB-based demo program for sum of independent random variables**," John Wiley & Sons journal *Computer Applications in Engineering Education*, (ISSN: 1061-3773), vol.21, Issue 2, June 2013, pp.372-385.

- Alfonso Fernandez-Vazquez, and Gordana Jovanovic Dolecek, "**Analysis and Design of Offset QPSK Using Redundant Filter Banks,** "2013 *J. Phys.: Conf. Ser,* (ISSN: 17426588012012)**,** 410, No.1**, doi:10.1088/1742-6596/410/1/012014.** (Conference paper).

- Gordana Jovanovic Dolecek and Alfonso Fernandez-Vazquez, " **Sharpening minimum-phase filters"** 2013 *J. Phys.: Conf. Ser***.** (ISSN: 17426588012012), **doi:10.1088/1742-6596/410/1/012012,** (Conference paper).

- D. Troncoso, M. G. Cruz Jimenez, and G. Jovanovic Dolecek. „**On the Estimation of the Minimum Number of Distinct Multipliers in FIR Hilbert Transformers based on Frequency Transformation,"** Elsevier *Procedia Technology*, ISSN: 2212-0173, 2013, .vol.7, pp.88-95. (Conference paper).

- M. G. Cruz Jimenez, and G. Jovanovic Dolecek, „**Application of generalized sharpening technique for two-stage comb decimator filter design,"** Elsevier *Procedia Technology,* ISSN: 2212-0173, 2013, .vol.7, pp.142-149. (Conference paper).

2012

- Fernandez-Vazquez and G. Jovanovic Dolecek**, "On the Stability of Real-Valued Maximally Flat Thiran Allpole Filters**", *Electronic Letters,* October 2012*,* Vol. 48, Issue 21, pp. 1314-1317 ISSN: 0013-5194 .

- G. Jovanovic Dolecek and Massimiliano Laddomada "**A Novel Two-Stage Nonrecursive Architectures for the Design of Generalized Comb Filters**", *Elsevier Digital Signal Processing*, (ISSN: 1051-2004), vol. 22, Issue 5, Sept. 2012, pp.859-868.

- A. Fernandez-Vazquez and G. Jovanovic Dolecek**,"On Passband and Stopband Cascaded-Integrator-Comb Improvements Using a Second Order IIR Filter,"** *Telkomnika*, (e-ISSN: 2087-278X, p-ISSN: 1693-6930), Vol.10, No.1, March 2012, pp. 61-66,.

- A. Fernandez-Vazquez and G. Jovanovic Dolecek, "**Maximally Flat CIC Compensation Filter: Design and Multiplierless Implementation**", *IEEE Transactions on Circuits and Systems II: Express Brief*, (ISSN: 1549-7747), February 2012, vol.54, N0.2, pp.113-117.

- G. Jovanovic Dolecek, "**MATLAB-based Program for Teaching Autocorrelation Function and Noise Concepts**," *IEEE Transactions on Education*, (ISSN: 0018-9359), 2012, vol.55, No.3, August 2012, pp.349-356.

- G. Jovanovic Dolecek and S. K. Mitra, "**Novel Two-Stage Comb Decimator Filter"** *Computacion y Sistemas*, (ISSN 1405-5546), vol.16, No. 4, 2012, pp.481-489,

- David Ernesto Troncoso Romero, Miriam Guadalupe Cruz Jiménez and Gordana Jovanovic Dolecek, "**Diseño óptimo de transformadores de Hilbert sin multiplicadores en base al uso de un subfiltro simple,"** *Computación y Sistemas,* (ISSN 1405-5546), vol. 16, No.1, 2012, pp.111-120.

2011

- M. Laddomada, G. Jovanovic Dolecek, Lim Yong Ching, Markku Renfors, and Lars Wanhammar, "**Advanced techniques on multirate signal processing for digital information processing",** *IET Signal Processing*, (ISSN 1751-9675), 2011, vol.5, No.3, pp. 313-315.

- M. Laddomadda, D. Troncoso, G. Jovanovic Dolecek, "**Design of Multiplierless Decimation Filters Using an Extended Search of Cyclotomic Polynomials**," *IEEE Transactions on Circuits and Systems II: Express Brief, (*ISSN: 1549-7747), vol.58, Issue 2, 2011, pp.115-119**.**

- Alfonso Fernandez-Vazquez, Gordana Jovanovic Dolecek "**An L1 Design of GCF Compensation Filter,**" *Signal Processing*, (Elsevier), (ISSN: 0165-1684), vol.91, Issue 5, May, 2011, pp.1143-1149.

- G. Jovanovic Dolecek and Fred Harris, "**On MATLAB demonstrations of narrowband Gaussian noise**," John Wiley & Sons journal *Computer Applications in Engineering Education.* , vol.19, no. 3, pp.598-603, Sept. 2011. ISSN: 1061-3773.

2010

- Mitra, Sanjit; Mondal, Kalyan; Tchobanou, Mikhail; Jovanovic Dolecek, Gordana, **General Polynomial Factorization-Based Design of Sparse Periodic Linear Arrays**, *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control,* September 2010, Vol.57, No.9, pp.1952-1966.

- Javier Diaz-Carmona, Gordana Jovanovic-Dolecek and Agustin Ramirez-Agundis **"Frequency-Based Optimization Design for Fractional Delay FIR Filters with Software Defined Radio Applications,"** *International Journal of Digital Multimedia Broadcasting, Special Issue: Spectrum Sharing and Sensing for Future Broadband Networks: The Cognitive Radio Technology***,** vol. 2010**,** Article ID 194306, 6 pages, 2010. doi:10.1155/2010/194306.

- G. Jovanovic Dolecek and M. Laddomadda, "**An Economical Class of Droop-Compensated Generalized Comb Filters: Analysis and Design,"***IEEE Transactions on Circuits and Systems II: Express Brief,* vol. 51, Issue 4, 2010, pp.275-279.

- G. Jovanovic Dolecek and S. K. Mitra, "**Two-Stage CIC Based Decimator with Improved Characteristics**" *IET Signal Processing*, February 2010, vol.4, Issue 1, pp.22-29.

- G. Jovanovic Dolecek,"**Modified CIC filter for Rational Sample Rate Conversion**", *ECTI Transactions on Computer and Information Technology*, (ISSN 1905-050x), vol.4, No.1, May 2010, pp.15-20.

- G. Jovanovic Dolecek, and Fernando Trejo, "**Compensated CIC-Cosine Decimation Filter"***, ECTI Transactions on Computer and Information Technology*, (ISSN 1905-050x), vol.4, No.1, May 2010, pp.8-14.

FULL PAPERS IN PROCEEDINGS WITH REVIEW: Total: 300
(Last five years 2017, 2016, 2015, 2014, 2013)

2017

- G. Jovanovic Dolecek, "**Improving Comb Alias Rejection by Exploiting Certain Class of Palindromic Polynomials, "** *2017 European Conference on Circuit Theory and Design (ECCTD),* Catania, Italy, 4-6 Sept. 2017, pp.1-4. Proc. published in IEEEXplore, Electronic ISSN: 2474-9672, DOI: 10.1109/ECCTD.2017.8093347 .

- G. Jovanovic Dolecek, **"Two-Stage Cosine Filter-Based Decimator with Improved Aliasing Rejection,"** *2017 New Generation of Circuits and Systems (NGCAS)*, Genova, Italy, 06-09 September 2017.pp.257-260, Proc published in IEEEXplore., Electronic ISSN: 978-1-5090-6447-2/17, DOI 10.1109/NGCAS.2017.77.

- G. Jovanovic Dolecek **, "Simple method to improve comb frequency characteristic in passband and folding bands,** Proc of *ICMSQUARE 2017*, Pafos, Cyprus, pp.1-6. The paper will be published in Journal of Physics: Conference Series (JPCS).

- G. Jovanovic Dolecek, "**Multiplierless Wideband and Narrowband CIC Compensator for SDR Application ,"** *13th International Conference on Wireless Communicatiion, Networking and Mobile Computing (WiCOM 2017),* Guilin, China from August 21-23, 2017. Paper published in Int journal on Communications, Network and System Science, pp. 1-6.

- G. Jovanovic Dolecek and J. Carmona Suarez, "**Improving Alias Rejection in Comb Decimation Filters for Odd Decimation Factors**",Proc. *MWSCAS 2017,* Boston, MA,pp.1-4 . Proc published in IEEEXplore. Electronic ISSN: 1558-3899, DOI: **10.1109/MWSCAS.2017.8052944**

- J. Carmona Suarez and G. Jovanovic Dolecek, " **Filter banks for cannel coding**, " Proc. *Reunion Internacional de verano RVP-AI/2017*, pp.1-5, Acapulco, Gro, 16-22 Julio, 2017.

- L. Herrera Sepulveda and G. Jovanovic Dolecek, " **Bancos de filtros para spectrum sensin**g, "Proc. *Reunion Internacional de verano RVP-AI/2017*,pp.1-5, Acapulco, Gro, 16-22 Julio, 2017.

- G. Jovanovic Dolecek and L. Herrera Sepulveda," **Improving Magnitude Response in Two-Stage Corrector Comb Structure,** "Proc. *2017 International Caribbean Conference on Devices, Circuits and Systems (ICCDCS),* Cozumel, Mexico, 5-7 June 2017, pp.73-76. Proc published in IEEEXplore**,** Electronic ISSN**:** 2165-3550, DOI: 10.1109/ICCDCS.2017.7959701

- G. Jovanovic Dolecek and R. Garcia Baez, **"Nonrecursive Comb-Based Structure for Power of Three Decimation Factors: Design and FPGA**

Implementation," Proc. *IEEE Latin American Symp of Circuits and Systems, LASCAS,* Bariloche Aregentina, 20-23 Feb, 2017, pp.1-4, Proc published in IEEEXplore, Electronic ISSN: 2473-4667, DOI: 10.1109/LASCAS.2017.7948069

- G. Jovanovic Dolecek, **"Modified Nonrecursive Comb Decimation Structure**," Proc. 2017 *IEEE International Conference on Consumer Electronics (ICCE*), Las Vegas, Nevada, USA, 8-10 Jan. 2017. Pp1-2, Proc published in IEEEXplore, Electronic ISSN: 2158-4001, DOI: 10.1109/ICCE.2017.7889209

2016

- A. Garcia Robles, and G. Jovanovic Dolecek, "**On Non-Recursive Comb-Cosine Decimation Structures,"** Proc. *IEEE Latin American Symp of Circuits and Systems, LASCAS 2016*, Florianapolis, Brazil, February 28-March, 3, 2016, pp.1-4, Proc published in IEEEXplore, ISBN: 9781467378369.

- M. G. Cruz Jimenez, D. Troncoso, G. Jovanovic Dolecek, **"An efficient design of baseband filter for mobile communication, " Proc.** *2016 IEEE International Conference on Electro/Information Technology, EIT 2016*, May 19-21, 2016, **Grand Forks, North Dakota, USA.** pp. 368-371, Proc**.** published in IEEEXplore. Electronic ISSN: 2154-0373**,** DOI: 10.1109/EIT.2016.7535267

- G. Jovanovic Dolecek, V. Dolecek, I. Karabegovic, **" Simple method to improve magnitude response of CIC decimation filter, "** Proc. *International conference New Technologies: Development and applications, NT 2016*, Mostar**,** Bosnia**,** ISSN 2303-5668; E-print: ISSN 2303-7520, pp.328-332.

- G. Jovanovic Dolecek, V. Dolecek, **"Techniques to improve alias rejection of comb filters," Proc.** *International conference New Technologies: Development and applications, NT 2016*, Mostar**,** Bosnia**,** ISSN 2303-5668; E-print: ISSN 2303-7520, pp.333-337.

- G. Jovanovic Dolecek**, "Improvement of comb decimation filter magnitude characteristic using sharpening technique,"** International conference *ICMSQUARE 2016*, Athens, Greece.(Published in Journal of Physics: Conference Series **738** (2016) 012125.

- G. Jovanovic Dolecek, L. Dolecek, "**Exploiting features of symmetric polynomials for improved comb filter design**, Proc. *IEEE Int Conference SPA 2016,* Poznan, Poland, ISBN-13-978-83-62065-24-0, IEEE Conference Record # 39630, pp.26-29. (Published by IEEEXplore).

- G. Jovanovic Dolecek, A. Fernandez Vazquez, "**Multiplierless Two-Stage Comb Structure with an Improved Magnitude Characteristic**", Proc. 2016 *IEEE Asia Pacific Conference on Circuits & Systems*, Jeju, Korea from October 25-28, 2016. pp.607-610, Published in IEEEXplore, SBN:9781509015696, DOI: 10.1109/APCCAS.2016.7804043

- R. Garcia Baez, G. Jovanovic Dolecek "**Modified Comb Decimation Filter: Design and Implementation"**, Proc. *IEEE 59th International Midwest Symposium on Circuits and Systems (MWSCAS)* 16-19 October 2016, Fairmont Bab Al Bahr Hotel, Abu Dhabi, United Arab Emirates (UAE), Published in IEEEXplore, Electronic ISSN**:** 1558-3899, DOI: 10.1109/MWSCAS.2016.7869978

- G. Jovanovic Dolecek , "**A Novel Comb Compensator with a Good Passband Deviation-Complexity Tradeoff, "** Proc. *IEEE 59th International Midwest Symposium on Circuits and Systems (MWSCAS 2016)*, 16-19 October 2016, Fairmont Bab Al Bahr Hotel, Abu Dhabi, United Arab Emirates (UAE Published in IEEEXplore, Electronic ISSN**:** 1558-3899, DOI: 10.1109/MWSCAS.2016.7869974

- N. Jimenez, A. Fernandez Vazquez, G. Jovanovic Dolecek, "**Blind Sparse Channel Identification Using Subspace-Based Algorithm"**, Proc. *IEEE 59th International Midwest Symposium on Circuits and Systems (MWSCAS),* 16-19 October 2016, Fairmont Bab Al Bahr Hotel, Abu Dhabi, United Arab Emirates (UAE). Published in IEEEXplore, Electronic ISSN**:** 1558-3899, DOI: 10.1109/MWSCAS.2016.7870054

- F. Harris, G. J. Dolecek, **"Bifurcate Repeated Stop Band Zeros of CIC Filters**," Proc. *IEEE International Conference on Digital Signal processing (DSP 2016)*, October 16-18, Beijing China, Published in EEEXplore**,** Electronic ISSN: 2165-3577, DOI: 10.1109/ICDSP.2016.7868580

- R. Zamora, F. Harris, G. Jovanovic Dolecek, "**Prototype filter Design for channel independence in channelizers**, " Proc. *Vigesimasexta Reunion Internacional de Otoño de Comunicaciones, Computers, Electronica, Aut. ROC&C'2016*, pp.1-5, Acapulco, Mexico, 27 Dec-Nov,1, 2016

- F. Ojeda, F. Harris, G. Jovanovic Dolecek, "**PAPR Reducion and Asynchronous Multiplexing in OFDM Systems,**" Proc. *Vigesimasexta Reunion Internacional*

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2015

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