

MIROSLAV JOLER - RESUME (CV)

updated: May 2023

1. BASIC INFORMATION

1.1 CONTACT INFO

First Name and Last Name: Miroslav Joler
Citizenship: Croatia
Current Residence: Rijeka, Croatia
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Email: mjoler@gmail.com

Keywords

antennas, microwave engineering, electromagnetic modeling, computer codes

1.2 EDUCATION

- 2006 **Doctor of Philosophy** (Electrical Engineering), *University of New Mexico*, Albuquerque, NM, USA, major: Applied Electromagnetics.
- 2001 **Master of Science** (Electrical Engineering), *University of New Mexico*, Albuquerque, NM, USA, major: Applied Electromagnetics.
- 1996 **Bachelor of Science** (Electrical Engineering), *University of Zagreb*, Zagreb, Croatia, major: Radiocommunications and Professional Electronics.

1.3 ADDITIONAL POST-GRADUATE TRAINING

- 2006 Portland State University, Portland, OR, USA
- 08/2006 – 12/2006 Department of Physics
Teaching course *PH431: Electricity and Magnetism I*.
Role: course instructor.
- 01/2006 – 07/2006 Department of Electrical and Computer Engineering
Project: *THz-detection of Improvised Explosive Devices*.
Role: project associate and coordinator to students involved in the project.
- Project: *Development of Computational Model of Ocean Bottom Scattering*. Role: project associate.
- 10/2009 attended *IEEE Technical English Program* workshop, St. Petersburg, Russia
- 9/2010 attended *Qt in Education* workshop, Varaždin, Croatia

2008 - 2016	attending various Info Days and workshops about EU funds and Calls, Rijeka and Zagreb, Croatia
3/2019-4/2019	visiting <i>Brno University of Technology, Faculty of Electrical Engineering and Communication Technology, Department of Radio Electronics</i> via EU CEEPUS program: giving guest lectures from their regular curricula and giving invited seminar talks to staff and students
9/2019	attended Info Day of European Defence Agency and related opportunities
10/2021	Info Day of Croatia's Agency for Mobility and EU Programmes

1.4 POSITIONS HELD

07/2018 – present	Professor. University of Rijeka, Faculty of Engineering, Rijeka, Croatia.
03/2013 – 06/2018	Associate Professor. University of Rijeka, Faculty of Engineering, Rijeka, Croatia.
12/2007 – 02/2013	Assistant Professor. University of Rijeka, Faculty of Engineering, Rijeka, Croatia.
07/2007 – 12/2007	Researcher. University of Rijeka, Faculty of Engineering, Rijeka, Croatia.
08/2006 – 12/2006	Research Associate. Portland State University, Department of Physics, Portland, OR, USA.
01/2006 – 08/2006	Postdoctoral Research Associate. Portland State University, Department of Electrical and Computer Engineering, Portland, OR, USA.
2002 – 2005	Research assistant. University of New Mexico, Department of Electrical and Computer Engineering, Albuquerque, NM, USA.
2000 – 2001	Teaching assistant. University of New Mexico, Department of Electrical and Computer Engineering, Albuquerque, NM, USA.
1996 – 1999	RF Engineer. Croatian Radio and Television, Transmitters and Links Division, Zagreb, Croatia.

1.5 ACADEMIC DUTIES

10/2022 -	Head of the Communications Systems Group, Dept. of Computer Engineering, Faculty of Engineering, Univ. of Rijeka, Rijeka, Croatia.
	Chair of the Graduation Committees for graduate and undergraduate programs of computer engineering, University of Rijeka, Faculty of Engineering, Rijeka, Croatia.

- Member of the Committee for Quality Assurance**, Faculty of Engineering, University of Rijeka, Rijeka, Croatia.
- 10/2019 - 9/2022 **Head of the Communications Systems Group**, Dept. of Computer Engineering, Faculty of Engineering, Univ. of Rijeka, Rijeka, Croatia.
- Member of the Committee for Publishing and Library Affairs**, Faculty of Engineering, University of Rijeka, Rijeka, Croatia.
- 10/2016 - 9/2019 **Head of the Communications Systems Group**, Dept. of Computer Engineering, Faculty of Engineering, Univ. of Rijeka, Rijeka, Croatia.
- Member of the International Cooperation Committee**, Faculty of Engineering, Univ. of Rijeka, Rijeka, Croatia.
- 10/2013 – 9/2016 **Chair of the Graduation Committees** for graduate and undergraduate programs of computer engineering, University of Rijeka, Faculty of Engineering, Rijeka, Croatia.
- Head of the Communications Systems Group**, Dept. of Computer Engineering, Faculty of Engineering, Univ. of Rijeka, Rijeka, Croatia.
- 03/2011 – 09/2013 **Head of the Communications Systems Group**, Dept. of Computer Engineering, Faculty of Engineering, Univ. of Rijeka, Rijeka, Croatia.
- Associate Chair of the Graduation Committees** for graduate and undergraduate programs of computer engineering, Dept. of Computer Engineering, Faculty of Engineering, Univ. of Rijeka, Rijeka, Croatia.
- 10/2008 – 02/2011 **Chair of the Department of Computer Engineering**, Faculty of Engineering, Univ. of Rijeka, Rijeka, Croatia.
- Head of the Communications Systems Group**, Dept. of Computer Engineering, Faculty of Engineering, Univ. of Rijeka, Rijeka, Croatia.
- Wireless Communications Lab Director**, Dept. of Computer Engineering, Faculty of Engineering, Univ. of Rijeka, Rijeka, Croatia.
- 2008 – 2009 **Selection Committee Member** for hiring of new research assistants

2. RESEARCH EXPERIENCE

2.1 PARTICIPATION IN SCIENTIFIC RESEARCH PROJECTS

- 2019 - 2022 Project: *Smart Jacket Development* at the Univ. of Rijeka, Croatia. Role: Principal Investigator. Funded by: University of Rijeka, Croatia.
- 2014 – 2016 Project: *A study of the Slot Effects on the Behavior of Resonant Frequencies of Microstrip Antennas* at the Univ. of Rijeka, Croatia. Role: Principal Investigator. Funded by: University of Rijeka, Croatia.
- 2007 – 2012 Program: *Network of Excellence for Electromagnetic Communications*. at the Univ. of Zagreb, Croatia. Role: associate. Principal Investigator: Prof. Juraj

Bartolić. Funded by: Ministry of Science, Education, and Sport, Republic of Croatia.

2006 Project: *THz-Detection of Improvised Explosive Devices* at Portland State University, Portland, OR, USA. Role: researcher and student group coordinator. Principal Investigator: Dr. Lisa Zurk. Funded by: The Office of Naval Research (USA).

Project: *Development of Computational Model of Ocean Bottom Scattering* at Portland State University, Portland, OR, USA. Role: researcher. Principal Investigator: Dr. Lisa Zurk. Funded by: The Office of Naval Research (USA).

2002 – 2005 Program: *Compact, Portable, Pulsed Power* at the Univ. of New Mexico, Albuquerque, NM, USA. Role: researcher. Principal Investigator: Prof. Edl Schamiloglu. Funded by: US Department of Defense (DoD) / US Air Force Office of Scientific Research (AFOSR).

2000 – 2001 Project: *Real-Time Remote Control of Programmable Devices over the Internet* at the Univ. of New Mexico, Albuquerque, NM, USA. Role: lead researcher. Principal Investigator: Prof. Christos G. Christodoulou. Funded by: University of New Mexico, Electrical and Computer Engineering Department.

2.2 INDUSTRY EXPERIENCE

1996 - 1999 RF Engineer at Transmitters and Links, Ltd., Zagreb, Croatia.
Job Scope: broadcast network coverage analysis and planning locations for new TV transmitters/repeaters, design of new TV transmitter stations including RF link budget analysis, terrain coverage analysis, antenna system design.

2.3 PRESENTER AT SCIENTIFIC CONFERENCES

2022. *CECNet 2022 (online) Conference*, Xiamen, China, November 4-7, 2022. (Invited Speaker). (Best Oral Presentation Award).

2021. *CECNet 2021 (online) Conference*, Beijing, China, November 18-21, 2021. (Invited Speaker). (Best Oral Presentation Award).

2021. *SoftCOM 2016 Conference*, Hvar, Croatia, September 2021. (2 papers + tutorial)

2020. *ICIICH 2020 (online) Conference*, Shantou, China, December 2020. (Invited Speaker)

2018 *SNSP 2018 Conference*, Xi'an, China, October 2018. (Invited Speaker)

2016 *SoftCOM 2016 Conference*, Split, Croatia, September 2016. (paper + tutorial)

2015 *ICEAA/APWC 2015 Conference*, Torino, Italy, September 2015 (2 papers).

2013 *ICECom 2013*, Dubrovnik, Croatia, October 2013

2010 *ICECom 2010*, Dubrovnik, Croatia, September 2010

2008 *Loughborough Antennas & Propagation Conference*, Loughborough, UK, 2008

- 2005 *IEEE AP-S/URSI Symposium*, Washington, DC, USA, July 2005 (2 papers)
- 2005 *IEEE Int'l Pulsed Power Conference*, Monterey, CA, USA, June 2005 (2 papers)
- 2004 *IEEE AP-S/URSI Symposium*, Monterey, CA, USA, June 2004
- 2003 *IEEE Int'l Pulsed Power Conference*, Dallas, TX, USA, June 2003
- 2002 *BEAMS 2002*, Albuquerque, NM, USA, June 2002
- 2001 ICECom 2001, Dubrovnik, Croatia, October 2001
- 2001 *IEEE AP-S/URSI Symposium*, Boston, MA, USA, July 2001

2.4 PARTICIPATION IN COMMITTEES OF SCIENTIFIC JOURNALS, CONFERENCES, AND OTHER PROFESSIONAL ORGANIZATIONS

- 2023 **International Committee Member**, *2023 SoftCOM Conference: Symposium on EEMC*, Split, Croatia, September 2023.
- 2023 **TPC Member**, *2022 EuCAP Conference*, Florence, Italy, March 2023.
- 2022 **TPC Member**, *2022 Radioelektronika Conference*, Košice, Slovakia, April 2022.
- 2019 - **Associate Editor**, *Journal of Communications Software and Systems*
- 2018 - **Editorial Board Member**, *Cambridge Scholars Publishing*
- 2018 **International Committee Member**, *2018 SoftCOM Conference: Symposium on EEMC*, Split, Croatia, September 2018.

- 2017 **Technical Program Committee Member**, *2017 SoftCOM Conference: Symposium on EEMC*, Split, Croatia, September 2017.
- 2017 **Technical Program Committee Member**, *2017 CIAP Conference: Symposium on Recent Advances in Communication Theory, Information Theory, Antennas and Propagation*, Karnataka, India, September 2017.
- 2017 **reviewer**, *2017 EuCAP Conference*, Paris, France, March 2017.
- 2017 **reviewer**, *2017 ISMICT Conference*, Lisbon, Portugal, February 2017.

- 2016 **reviewer**, *2016 MIPRO Conference*, Opatija, Croatia, May 2016.
- 2016 **reviewer**, *2016 ICWITS-ACES Conference*, Honolulu, Hawaii, March 2016.

- 2015 **Session Co-Chair**, *2015 ICEAA/APWC Conference*, Torino, Italy, Sept. 2015.
- 2015 **Reviewer**, *IEEE Antennas and Propagation Magazine*.
- 2015 **Reviewer**, *ACES Journal*.
- 2015 **Reviewer**, *IET Electronics Letters*.
- 2015 **Evaluator**, *Croatian Science Foundation*.
- 2015 **Technical Program Committee Member**, *2015 Conference on Radio Science and Antenna Technology*, Suzhou, China, March 2015

- 2014 **Reviewer**, *British Journal of Applied Science & Technology*.
- 2014 **Reviewer**, *2014 EuCAP Conference*, Lisbon, Portugal, April 2015

- 2013 **Session Co-Chair**, *2013 ICECom Int'l Conference*, Dubrovnik, Croatia, October 2013
- 2013 **Session Co-Chair**, *2013 MIPRO Int'l Conference*, Opatija, Croatia, May 2013
- 2013 - **Editorial Board Member**, *SCIRP Open Journal of Antennas and Propagation*

- 2010 **Session Co-Chair**, *2010 ICECom Int'l Conference*, Dubrovnik, Croatia, 2010
- 2009 - **Proposal Evaluator**, Science and Technology Park (STeP) of the University of Rijeka, Rijeka, Croatia.

- 2009 - **Proposal Evaluator**, Ministry of Science, Education, and Sport, Republic of Croatia.
- 2008 **Reviewer**, Elsevier Measurement *Journal of the International Measurements Confederation*
- 2008 - **Reviewer**, IEEE *Antennas and Wireless Propagation Letters*
- 2007 - **Reviewer**, *Scientific Journals International*
- 2006 **Session Co-Chair**, 2006 AP-S/URSI/AMEREM Int'l Conference, Albuquerque, NM, USA, 2006
- 2003 - **Reviewer**, IEEE *Transactions on Antennas and Propagation*

2.5 GUEST EDITOR IN SCIENTIFIC JOURNAL

- 2022 - 2023 MDPI, *Electronics Journal*
- 2023 *Journal of Communications Software and Systems*

2.6 MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- 2017 - Associate to Croatian Academy of Engineering
- 2011 Member of ELMAR, Croatia
- 2011 - Member of IEEE Communications Society, worldwide
- 2003 – 2005 Member of Directed Energy Professional Society, USA
- 1996 - Member of IEEE Croatia Chapter (except in 2000-2006), Croatia
- 1996 - Member of IEEE Microwave Theory and Techniques Society (except in 2005-2009), worldwide
- 1996 - Member of IEEE Antennas and Propagation Society, worldwide

3. TEACHING ACTIVITIES

3.1 TEACHING EXPERIENCE

University of Rijeka, Faculty of Engineering (2008 -)

Computing Skills (2019. -), lectures and exercises, university undergraduate program of computer engineering

Microwave Engineering (2019. -), lectures and exercises, university graduate program of electrical engineering

Mobile Application Development – Project (2012 -), mentoring, university graduate program of computer engineering

Mobile communications (2011 -), lectures and exercises, university graduate program of computer engineering

Web Application Development – elective project (2010 -), mentoring, university undergraduate program of computer engineering

Radiocommunications - Project II (2008 -), mentoring, university graduate program of electrical engineering

Radiocommunications - Project I (2008 -), mentoring, university graduate program of electrical engineering

Fundamentals of Electrical Engineering (2008, 2009), lectures, university undergraduate program of computer engineering

Electronics II (2008, 2009), lectures and exercises, university undergraduate program of electrical engineering

Radiocommunications ST (2008 -), lectures and exercises, vocational program of electrical engineering

Radiocommunications (2008 -), lectures and exercises, university graduate program of electrical engineering

University of Rijeka, Faculty of Maritime Studies (2008)

Radiowaves and Antennas, lectures and exercises, university graduate program of electronic and information technologies in marine traffic

Electromagnetic Compatibility of Naval Devices, lectures and exercises (co-instructor), university graduate program of electronic and information technologies marine traffic

Portland State University, Dept. of Physics, Portland, OR, USA (2006)

Electricity and Magnetism I, lectures and exercises, university undergraduate/graduate of physics

University of New Mexico, Electrical and Computer Engineering Dept, Albuquerque, NM, USA (2000 – 2005)

Computational Electromagnetics (2003 – 2005), occasional lectures, university graduate program of electrical engineering

Introduction to Microwave Engineering (2003 – 2005), occasional lectures, university graduate program of electrical engineering

Electrodynamics (2003 – 2005), occasional lectures, university graduate program of electrical engineering

Electrical Engineering Laboratory I (2000 – 2001), lab exercises, university undergraduate program of electrical engineering

Electronics Laboratory (2000 – 2001), lab exercises, university undergraduate program of electrical engineering

3.2 NEW COURSES DEVELOPED IN VARIOUS CURRICULA

- 2019 adapted the course content for the *Computational Skills* course in the undergraduate program of computer engineering at the Faculty of Engineering of the University of Rijeka

- 2017 proposed and developed a new course *Wearable Computing* for the doctoral program of computer engineering at the Faculty of Engineering of the University of Rijeka
- 2011 proposed and developed a new course *Electromagnetic modeling* for the doctoral program of electrical engineering at the Faculty of Engineering of the University of Rijeka
- 2011 developed a new course *Wireless Sensor Networks* for the graduate program of computer engineering at the Faculty of Engineering of the University of Rijeka
- 2011 proposed and developed a new course *Mobile Communications* for the graduate program of computer engineering at the Faculty of Engineering of the University of Rijeka
- 2009 co-developed a course content for the *Electromagnetic Compatibility of Naval Devices* course in the graduate program of electronics and information technologies at the Faculty of Maritime Studies of the University of Rijeka
- 2008 adapted the course content for the *Radiocommunications ST and Radiocommunications* courses in the vocational- and graduate- program of electrical engineering at the Faculty of Engineering of the University of Rijeka
- 2008 adapted the course content for the *Electronics II* course in the undergraduate program of electrical engineering at the Faculty of Engineering of the University of Rijeka
- 2008 adapted the course content for the *Fundamentals of Electrical Engineering R* course in the undergraduate program of computer engineering at the Faculty of Engineering of the University of Rijeka

3.3 MENTORSHIP IN MASTER'S AND BACHELOR'S THESES

3.3.1 Master of Engineering Theses

1. 2023 Sablić-Nemec, Dorijan: *Performance Comparison of a 3D-printed Horn Antenna with Respect to a Traditionally Fabricated Antenna*, (EE).
2. 2020 Poropat, Dante: *An Analysis of a Phone Call Quality over the VoIP Protocol*, (CE).
3. 2018 Balent, Adrijana: *A mobile application for calculation of transmission line parameters*, (CE)
4. 2018 Ibrahimagić, Denis: *A Computer-controlled RF Spectrum Analyzer using LabVIEW*, (CE)
5. 2018 Lacković, Nikola: *A Computer-controlled oscilloscope using LabVIEW*, (CE).
6. 2017 Vuković, Sandi: *Communication protocols for the Internet of Things*, (CE).
7. 2017 Suljić, Kristijan: *A Web Application for simulation of ASK, FSK, and PSK modulation*, (CE).
8. 2016 Zorić, Juraj: *Development of mobile applications using technologies for web application development*, (CE).
9. 2016 Bikić, Dino: *Testing Near Field Communication and Bluetooth Low Energy Technologies on Android Devices*, (CE).
10. 2016 Sulovsky, Boris: *Implementation of reverse geocoding and location tracking within a mobile application*, (CE).

11. 2015 Štih, Boris: *A Computational Model For Analysis of Wireless Power Transfer*, (EE).
12. 2014 Baćac, Nikola: *An FDTD-based Code for Analysis of Acoustic Wave Propagation in an Inhomogeneous Space*, (EE).
13. 2014 Kolonić, Anamaria: *Design and Analysis of a Circularly Polarized Textile Antenna Operating in the E Band*, (EE).
14. 2013 Kučan, Joško: *Analysis of the Impact of Slot Dimensions on the Resonant Frequencies of Rectangular Microstrip Antennas*, (EE).
15. 2011 Bojčić, Ivo: *Design of Multi-sectional Binomial Impedance Transformer*, (EE).
16. 2011 Miljenović, Teo: *Application of a Transceiver Based on ZigBee Standard*, (EE).
17. 2011 Smolčić, Dalibor: *Impact of the Shunt Resistor Assembly on the Performance of the Wilkinson Transformer*, (EE).

3.3.2 Bachelor of Engineering Theses

1. 2018 Krajcar, Filip: *A web application for computation of parameters of radio-propagation models*, (CE).
2. 2017 Batistić, Luka: *A comparison of WebSocket protocol and long-polling technique in the context of communication between Android client and a remote server*, (CE).
3. 2017 Ćelić, Ivan: *Web application for procurement management*, (CE).
4. 2017 Herak, Simone: *A Web System for the Management of Service Activities Supply and Demand*, (CE).
5. 2017 Ilić, Dino: *Single page web application for online judge challenge management*, (CE).
6. 2017 Levačić, Leon: *Server Application for WebSocket Protocol*, (CE).
7. 2017 Skoki, Arian: *A Web System for Shift Work Organization and Control Based on Scheduling Management*, (CE).
8. 2017 Tahirović, Emrah: *Mobile Applications Contact-free Control Based on Built-in Sensor Data*, (CE).
9. 2016 Bradičić, Antonio: *Isolated and reproducible application environments based on the Docker containers*, (CE).
10. 2016 Brdar, Leo: *REST API as a single-page application backend*, (CE).
11. 2016 Carta, Vanessa: *An application for design of impedance matching using a single-stub tuning technique*, (CE).
12. 2016 Čop, Julijan, *HTTP/2 - a protocol designed for a modern web*, (CE).
13. 2016 Fafandjel, Erika: *A web application for a design of a binomial impedance transformer*, (CE).
14. 2016 Gojak, Tina: *The client side of a single-page application*, (CE).
15. 2016 Klarić, Ivona: *A web calculator of transmission lines parameters*, (CE).
16. 2016 Mohović, Marino: *A simulation of a plane electromagnetic wave incidence on a dielectric medium boundary*, (CE).
17. 2015 Balent, Andrijana: *Development of a simple web content management system*.
18. 2015 Bošković-Pavković, Ivan: *A web application for generation of CV*.

19. 2015 Mušković, Renato: *A web application for parameter calculation of L-networks for impedance transformation.*
20. 2015 Pavleković, Renato: *A web application for administrative management of the graduation theses assignment.*
21. 2014 Batistić, Luka: *Rent Web 2 – Advanced Features in the Application for Evaluation of Participants on the Rental Real Estate Market,* (CE).
22. 2014 Čerljenko, Ricardo: *A Web Application for Electronic Voting,* (CE)
23. 2014 Marmilić, Teo: *A Web Application for Inventory of the Lab Equipment,* (CE)
24. 2014 Milaković, Ivan: *A support application for management of a small enterprise.*
25. 2014 Tahirović, Emrah: *A Web Application for Presentation and Booking of Tourist Apartments,* (CE).
26. 2013 Fabeta, Tomislav: *An Interactive Web-page for the Smith Chart-based Analysis* (CE).
27. 2013 Prodić, Nataša: *The Rent Web – an Application for Evaluation of Participants on the Rental Real Estate Market,* (CE).
28. 2013 Zorić, Juraj: *Advance Features of Classroom Reservation Calendar and the Administrator Dashboard,* (CE).
29. 2012 Dunković, Paolo: *An Application for Administration of Teaching Load of the University Instructors,* (CE).
30. 2012 Reščić, Luka: *An Algorithm for Balancing of Patient Waiting Lists in a Healthcare System,* (CE).
31. 2012 Štulina, Mate: *A Web Application for Management of Sport Centers Locations,* (CE).
32. 2011 Barak, Rene: *An Algorithm for Advanced Searching of Available Periodic Slots in a Calendar,* (CE).
33. 2011 Krstanović, Filip: *Implementation of the https Protocol in Interactive Web Pages,* (CE).
34. 2011 Matušan, Katica: *A Programmable Attenuator of RF Signal,* (EE).
35. 2011 Varljen, Jan: *An Advanced Web Interface of a Calendar and the Administrator Dashboard,* (CE).
36. 2011 Vidović, Aleksandar: *An Application for the Administration of Graduation Theses,* (CE).
37. 2010 Blažević, David: *An RFID Lock,* (EE).
38. 2010 Božić, Vedran: *Analysis of Antenna Array Using an FPGA Chip Programmed in LabVIEW Programming Language,* (EE).
39. 2010 Kolonić, Anamaria: *Characteristics of Biosensors for Applications in Telemedicine,* (EE).
40. 2009 Miljenović, Teo: *MEMS as a Switch in Reconfigurable Planar Antennas,* (EE).
41. 2009 Vuković, Nardi: *PIN Diode as a Phase Shifter,* (EE).

3.4 MENTORSHIP TO FOREIGN STUDENTS FOR THEIR SUMMER INTERNSHIP

- 2013 Jonathan Seguin, Graduate School of Engineering, University of Nantes, Nantes, France

- 2011 Yann Soliman, Graduate School of Engineering, University of Nantes, Nantes, France
- 2011 Christophe Jegouzo, Graduate School of Engineering, University of Nantes, Nantes, France
- 2010 Guillaume Lachaud, Graduate School of Engineering, University of Nantes, Nantes, France
- 2010 Takeshi Daveau, Graduate School of Engineering, University of Nantes, Nantes, France
- 2010 Amitabh Chandel, *Indian Institute of Technology Roorkee*, Roorkee, India

3.5 INVITED TALKS

3.5.1 Invited Talks at International Conferences

- 2022. *An Experience with a Design and Fabrication of an Inset-Fed Rectangular Microstrip Antenna Built on an Ultra Thin Substrate in the S-Band*, The 12th International Conference on Electronics, Communications and Networks (CECNet 2022), Xiamen, China, November 4-7, 2022, online conference.
- 2021. *On Characterization of Dielectric Properties of Non-standard Materials Using a Low-cost Resonator Circuit*, The 11th International Conference on Electronics, Communications and Networks (CECNet 2021), Beijing, China, November 18-21, 2021, online conference.
- 2021. *A Review of Material Characterization Techniques with an Emphasis on a Microstrip Ring-resonator Method*, 29th International Conference on Software, Telecommunications, and Computer Networks, SoftCOM 2021, Hvar, Croatia, September 23-25, 2021.
- 2020. *Challenges Toward Design and Fabrication of Smart(er) Clothing*, The Fourth International Conference on Industrial Informatics - Computing Technology, Intelligent Technology, Industrial Information Integration ([ICIICII 2020](#)), Shantou University, China, December 18-19, 2020, online conference.
- 2018. *Towards a Smart Jacket: Integration of Electronics Challenge*, 18th International Conference on Sensor Networks and Signal Processing, SNSP 2018, Xi'an, China, October 28-31, 2018.
- 2016. *Modern Design of Multiband Antennas for Mobile*, 24th International Conference on Software, Telecommunications, and Computer Networks, SoftCOM 2016, Split, Croatia, September 22-24, 2016.

3.5.2 Invited Talks at Universities and other Institutions

- 2022. *Development of Mobile Communications: from Smoke Signals to 5G (orig: Razvoj mobilnih komunikacija: od dimnih signala do 5G)*, Technological Park Vinkovci, lecture upon the invitation of the professional society KERIT Vinkovci, September 2022.

- 2019 *Some Cases of Antenna Research for Modern Communications*, Brno University of Technology, Department of Radio Electronics, Czech Republic, Seminar Series for Masters students from universities in Bratislava, Slovakia, Vienna, Austria, and Brno, Czech Republic
- 2019 *Overview of Some Antenna and Mobile Communication-minded Research at the University of Rijeka*, Brno University of Technology, Faculty of Electrical Engineering and Communication Technologies, Department of Radio Electronics, Czech Republic, March 2019.
- 2009 *Opportunities at STeP and CE Department*, ESI Software Process Improvement Workshop, Science and Technology Park, University of Rijeka, May 2009.
- 2007 *Computational Electromagnetics in Research*, IEEE Croatia Section, video simulcast from the University of Rijeka to the Universities of -Split, -Zagreb, and -Osijek, November 2007.
- 2007 *A Review of Recent and Anticipated Research*, University of Rijeka, Faculty of Engineering, October 2007.
- 2006 *Introduction to Numerical Electromagnetic Methods via FDTD*, Portland State University, ECE Department, NEAR-Lab, April 2006.
- 2006 *Analysis and Optimization of Parallel-Plate Blumlein Line for Compact, Pulsed-Power Systems*, Portland State University, ECE Department, Graduate Seminar Series, January 2006.
- 2004 *A Flavor of Commercial EM Codes: Overview of CST Microwave Studio*, University of New Mexico, ECE Department, Computational Electromagnetics class, Fall 2004.
- 2003 *Numerical Electromagnetics: Evolution, Subtleties, and Perspectives*, University of New Mexico, ECE Department, Graduate Seminar Series, April 2003.
- 2003 *Highlights on CST Microwave Studio, and Subtleties in Computational Electromagnetics*, University of New Mexico, ECE Department, Applied Electromagnetics Group, April 2003.

4. OTHER ACADEMIC DUTIES

4.1 COMMITTEE MEMBER FOR DOCTORAL DISSERTATIONS

- 2021 Dissertation Reviewer and Defense Committee Member: Jan Špurek, *SIW-based Circularly Polarized Antenna Arrays*, Brno University of Technology, Faculty of Electrical Engineering and Communication Technologies, Department of Radio Electronics, Brno, Czech Republic.
- 2021 Dissertation Reviewer and Defense Committee Member: Martin Kokolia, *Electronic Components in Textile Substrates*, Brno University of Technology, Faculty of Electrical Engineering and Communication Technologies, Department of Radio Electronics, Brno, Czech Republic.
- 2020 Dissertation Reviewer and Defense Committee Member: Dominika Warmowska, *Terahertz Antenna Arrays for Communications*, Brno University of Technology,

Faculty of Electrical Engineering and Communication Technologies, Department of Radio Electronics, Brno, Czech Republic.

- 2020 Dissertation Reviewer and Defense Committee Member: Miroslav Cupal, *Textile Integrated Waveguide Components*, Brno University of Technology, Faculty of Electrical Engineering and Communication Technologies, Department of Radio Electronics, Brno, Czech Republic.
- 2011 Dissertation proposal: Tomislav Debogović, *Dynamic Control of Major Lobe in Antennas with Partially Reflecting Surface*, University of Zagreb, Faculty of Electrical Engineering and Computing, Department of Radiocommunications, Zagreb, Croatia.
- 2011 Defense: Tomislav Debogović, *Dynamic Control of Major Lobe in Antennas with Partially Reflecting Surface*, University of Zagreb, Faculty of Electrical Engineering and Computing, Department of Radiocommunications, Zagreb, Croatia.
- 2011 Dissertation proposal: Aleksandar Kiričenko, *Use of Negative Capacity for the Construction of Superluminal Wideband Line with nearly zero permittivity*, University of Zagreb, Faculty of Electrical Engineering and Computing, Department of Radiocommunications, Zagreb, Croatia.
- 2011 Dissertation proposal: Damir Muha, *A Proposal of Investigation of Magnetic Response of Circular Arrangement of Plasmonic Non-spheres by Scaled Experiments in RF Regime*. University of Zagreb, Faculty of Electrical Engineering and Computing, Department of Radiocommunications, Zagreb, Croatia.

4.2 COMMITTEE MEMBER FOR SELECTION OF STAFF AND ASSOCIATES

- 2022 lead committee member for preparation of the report for promotion of Assoc. Prof. Vera Gradišnik to Professor level
- 2009 committee member for appointment of Damir Malnar as a research assistant at the Faculty of Engineering Rijeka
- 2008 committee member for appointment of Marko Kaštelan as an assistant at the Faculty of Engineering Rijeka
- 2008 committee member for appointment of Marino Franušić as an assistant at the Faculty of Engineering Rijeka

4.3 PARTICIPATION IN WORK GROUPS

- 2011 Work group coordinator for self-evaluation of the Faculty of Engineering of the University of Rijeka, Rijeka, Croatia.
- 2009 – 2010 Work group member and departmental coordinator for computer engineering graduate program proposal creation at the Faculty of Engineering, University of Rijeka, Rijeka, Croatia.

5. AWARDS AND RECOGNITIONS

- 2022. *Best Oral Presentation*. Awarded at The 12th International Conference on Electronics, Communications, and Networks (CECNet 2022), Xiamen, China, November 4-7, 2022.
- 2021. *Best Oral Presentation*. Awarded at The 11th International Conference on Electronics, Communications, and Networks (CECNet 2021), Beijing, China, November 18-21, 2021.
- 2019 Elevated to the grade of IEEE Senior Member, "*an honor bestowed only to those who have made significant contributions to the profession*"
- 2001 "Research, Project, and Travel Grant" awarded by the Office of Graduate Studies at the University of New Mexico, 2001.

6. COMMUNITY INVOLVEMENT

6.1 PARTICIPATION IN POPULARIZATION OF SCIENCE

- 2022 held a popular-science lecture "Development of mobile communications: from smoke signals to 5G" Technology incubator, Vinkovci, Croatia, invited by *Kerit* professional society, Vinkovci, September 15, 2022
- 2022 held a popular-science lecture "Why did 5G trigger such a murmur?" series of University of Rijeka lectures "UNIRI for the citizens of Cres," Cres, Moise palace, June 23, 2022
- 2022 presenter at the Days of Open Labs - an online event for presentation of the university labs for high-school students
- 2010 member of the Faculty of Engineering, University of Rijeka, group for the promotional presentations of the university programs in "Gimnazija Andrije Mohorovičića" highschool in Rijeka (2010)
- 2009 a promotor of the university program of computer engineering at 2nd Job Fair, Rijeka, Croatia (3/2009)
- 2005 an evaluator of primary school students science projects, Albuquerque, NM, USA, (2005)
- 2004 a volunteer guide for the "Strange Matter" Exhibition in National Atomic Museum, Albuquerque, NM, (2/2004 – 5/2004)

6.2 JOURNALISTIC TEXTS AND CONTRIBUTIONS IN PUBLIC MEDIA

- 2020 an article published on the portal of *Croatian Cultural Council* on the usage of decimal separator in Croatian education system
- 2018 two articles published on web portals on the anticipated reform of primary and secondary education in Croatia

- 2017 series of articles published in various media on the reform of education and newly proposed curricula
- 2016 participation in public discussions on the proposal of the new Science and Higher Education Bill in Croatia
- 2015 statement on the problem of broadband internet installation in apartment buildings, *Croatian Television*, show: *Potrošački kod*, December 11, 2015.
- 2014. *Abuse of gadgets: Cellphones replaced cheat sheets, professors ask for protective measures*, national newspaper: *Novi list*, March 31 2014.
- 2014. *Cheating on the exam, plagiarism and falsification in education system*, Croatian Television, show: *Govornica*, March 31. 2014.
- 2014. *Professor from Rijeka: I caught a student in cheating during an exam using WhatsApp*, national newspaper: *Večernji list*, March 31, 2014.
- 2011. *Here is how to avoid detrimental effects of cellphone radiation*, national TV broadcaster: Nova TV, June 6, 2011.
- 2011 participation in public discussions on the proposal of the new Science and Higher Education Bill in Croatia
- 2008 a guest in a night talk-show of Croatian Radio – Radio Rijeka (a national broadcaster in Croatia): “Radio Journey” – about the personal experience on living in the USA (2008)
- 2007 essays on actual social issues published on a personal blog at *blog.mjoler.info*

7. FOREIGN LANGUAGES

- English: fluent in reading, writing, and conversion
- (- German: beginner in reading and writing - have not used in a long while)

CURRENT RESEARCH INTERESTS

- Wearable and implantable antennas and circuits
- Smart clothing
- Real-time self-healing systems
- Biomedical applications of electromagnetics
- IoT
- Urban Models of Wireless Power Transfer

TECHNICAL SKILLS AND COMPETENCIES

- antennas and propagation
- microwave engineering
- electromagnetics
- programming

COMPUTER SKILLS AND COMPETENCIES

- Office tools: Microsoft Office, Google Docs, Open Office, Libre Office
- programming languages: MATLAB, LabVIEW, Julia, MathCAD, Maple, Fortran, Octave
- EM CAD: CST Microwave Studio, FEKO, Sim4Life, HFSS, SEMCAD X

SOCIAL- AND ORGANIZATIONAL SKILLS AND COMPETENCIES

- interpersonal skills
- negotiations
- team management
- project management

FREE TIME

- tennis
- guitar playing
- amateur photography

DRIVING LICENCE: Holds

PUBLICATIONS

Miroslav Joler, Ph.D.

DOCTORAL DISSERTATION

Joler, M.: *Analysis and Optimization of Parallel-Plate Blumlein Line for Compact Pulsed-Power Systems*, University of New Mexico, 2006.

MASTER'S THESIS

Joler, M.: *A Novel Approach for Real-Time Remote Control of Programmable Devices over the Internet*, University of New Mexico, 2001.

BOOKS

Joler, M.: *Microwave Engineering and Radiocommunications: Problems and Worked Examples*, University of Rijeka, Faculty of Engineering & Redak, Split, *in print (in Croatian)*.

A. Papers in Peer-reviewed Journals Indexed in Current Contents (CC), Science Citation Indeks (SCI), and SCI – Expanded bibliographic databases

Joler M, Mihalić L. "A Subtlety of Sizing the Inset Gap Width of a Microstrip Antenna When Built on an Ultra-Thin Substrate in the S-Band," *Sensors*. 2023; 23(1):213. <https://doi.org/10.3390/s23010213> (Q2), (IF₂₀₂₁ = 3.847, SJR₂₀₂₁ = 0.803)

Joler, Miroslav. "An Efficient and Frequency-Scalable Algorithm for the Evaluation of Relative Permittivity Based on a Reference Data Set and a Microstrip Ring Resonator," *Sensors* 2022(15):5591. <https://doi.org/10.3390/s22155591>. (Q2), (IF₂₀₂₁ = 3.847, SJR₂₀₂₁ = 0.803)

Miroslav Joler, Alex N.J. Raj, and Juraj Bartolić. 2022. "A Simplified Measurement Configuration for Evaluation of Relative Permittivity Using a Microstrip Ring Resonator with a Variational Method-Based Algorithm," *Sensors* 2022(3), 928; <https://doi.org/10.3390/s22030928> . (Q1), (IF₂₀₂₀ = 3.576, SJR₂₀₂₀ = 0.636)

Y. Xie, A. N. J. Raj, Z. Hu, S. Huang, Z. Fan, and **M. Joler**, "A Twofold Lookup Table Architecture for Efficient Approximation of Activation Functions," in *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, vol. 28, no. 12, pp. 2540-2550, Dec. 2020, doi: 10.1109/TVLSI.2020.3015391, (Q2), (SJR₂₀₁₉=0.561)

M. Joler, A. Berkarić, and V. Klen, "Testing an Arduino-based Approach for Full-Duplex Voice Communication and Body-Parameter Sensing Electronics for Use with Smart Clothing," *International Journal of Antennas and Propagation*, vol. 2019, Article ID 8598912, 8 pages, 2019. (Q3).

M. Joler and M. Boljkovac, "A Sleeve-Badge Circularly Polarized Textile Antenna," *IEEE Transactions on Antenna and Propagation*, vol. 66, no. 3, March 2018, pp. 1576-1579. (Q1)

M. Joler and J. Kučan, "Impact of Slot Parameters on the Three Resonant Frequencies of a Rectangular Microstrip Antenna: Study of the impact of the slot length, width, and position," *IEEE Antennas & Propagation Magazine*, vol. 57, no. 4, August 2015, pp. 48-63. (Q1)

M. Joler, "Self-recoverable antenna arrays," *IET microwaves antennas & propagation*, 6 (14), 2012, pp. 1608-1615. (Q2)

M. Joler, "How FPGAs can Help Create Self-Recoverable Antenna Arrays," *International Journal of Antennas and Propagation*, vol. 2012, Article ID 196925, 10 pages, 2012. DOI:10.1155/2012/196925. (Q3)

M. Joler, C. G. Christodoulou, and E. Schamiloglu, "Limitations to Compacting a Parallel-Plate Blumlein Pulse-Forming Line," *International Journal of RF and Microwave Computer-Aided Engineering*, vol. 18, no. 2, March 2008, pp. 176-186. (Q2)

M. Joler, C. G. Christodoulou, E. Schamiloglu, and J. Gaudet, "Effects of Dielectric Width Extension in a Parallel-Plate Blumlein Line," *Microwave and Optical Technology Letters*, vol. 46, no. 3, August 2005, pp. 220-225. (Q2)

M. Joler, C.G. Christodoulou, "Laboratories Accessible through the Internet," *IEEE Microwave Magazine*, Volume 2, Number 4, December 2001, pp. 99-103. (Q1)

B. Papers in Peer-reviewed Journals in other bibliographic databases

Joler, M., Kolonić, A. and Boljkovac, M. (2020) "A Wideband Circularly Polarized Jeans-Based Antenna at 2.45 GHz," *Open Journal of Antennas and Propagation*, 8, 1-18. <https://doi.org/10.4236/ojapr.2020.81001>.

M. Joler, "OJAPr Editorial," *Open Journal of Antennas and Propagation*, Scientific Research Publishing, vol. 1, issue 1, June 2013, pp. 1-3, DOI: 10.4236/ojapr.2013.11001.

N. Stojković, **M. Joler**, and K. Lenac, "Graduate University Study of Computer Engineering at the Faculty of Engineering of the University of Rijeka," *Engineering Review*, Faculty of Engineering, University of Rijeka, vol. 30, no. 1, July 2010.

M. Joler, C.G. Christodoulou, "Network of Instruments Shared via the Internet," *National Instruments Instrumentation Newsletter-Special Academic Edition*, Fourth Quarter 2001, pp. A-3..A-4.

C. Papers in Other Journals

M. Joler, "Perform Cost-Effective Antenna Radiation Measurements," *Microwaves & RF Magazine*, [Online], August 31, 2018.

D. Papers and Abstracts Published in Peer-reviewed International Conference Proceedings

M. Joler, "An Experience with a Design and Fabrication of an Inset-Fed Rectangular Microstrip Antenna Built on an Ultra Thin Substrate in the S-Band," The 12th

International Conference on Electronics, Communications and Networks (CECNet 2022), Beijing, China, November 4-7, 2022, online conference, abstract, [invited speaker](#).

M. Joler, "On Characterization of Dielectric Properties of Non-standard Materials Using a Low-cost Resonator Circuit," The 11th International Conference on Electronics, Communications and Networks (CECNet 2021), Beijing, China, November 18-21, 2021, online conference, abstract, [invited speaker](#). (Best Oral Presentation)

M. Joler and A. N. J. Raj, "Relaxing the Variational Method-based Measurement Configuration for the Evaluation of Permittivity using a Microstrip Ring Resonator," *2021 International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, 2021, Hvar, Croatia, September 23-25, 2021, pp. 1-6.

M. Joler, A. N. J. Raj and J. Bartolić, "Finding an Optimal Sample Size and Placement for Measurement of Relative Permittivity using a Microstrip Ring Resonator," *2021 International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, 2021, Hvar, Croatia, September 23-25, 2021, pp. 1-5.

M. Joler, "Challenges Toward Design and Fabrication of Smart(er) Clothing," *The Fourth International Conference on Industrial Informatics - Computing Technology, Intelligent Technology, Industrial Information Integration (ICIICII 2020)*, Shantou University, China, December 18-19, 2020, online conference, [invited speaker](#).

M. Joler, "Towards a Smart Jacket: Integration of Electronics Challenge," *18th International Conference on Sensor Networks and Signal Processing (SNSP 2018)*, Xi'an, China, October 28-31, 2018, *Conference Proceedings*, **invited talk**.

M. Joler and D. Hodanić, "Interpolative Computation of Two Slot Dimensions in a Rectangular Microstrip Antenna Given the Mode Number and the Resonant Frequency," *24th International Conference on Software, Telecommunications, and Computer Networks, SoftCOM 2016*, Split, Croatia, September 22-24, 2016, *Proceedings USB*.

M. Joler and B. Štih, "A 3D Computational Model for Analysis of Wireless Power Transfer System Based on the Magnetic Resonance Coupling Method," *International Conference on Electromagnetics in Advanced Applications (ICEAA 2015)*, Torino, Italy, September 7-11, 2015, pp. 1247-1250.

M. Joler, D. Hodanić, and G. Šegon, "A MATLAB Algorithm for Evaluation of a Rectangular Microstrip Antenna Slot Dimensions Given the Resonant Frequency," *IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications (IEEE APWC 2015)*, September 7-11, 2015, pp. 1243-1246.

J. Kučan and **M. Joler**, "Impact of slot dimensions on the resonant frequencies of rectangular microstrip antennas," *2013 ICECom, 21th International Conference on Applied Electromagnetics and Communications*, Dubrovnik, Croatia, 13-16 October, 2013, pp. 1-5, DOI: 10.1109/ICECom.2013.6684758.

M. Joler, D. Malnar, and S.E. Barbin, "Real-Time Performance Considerations of an FPGA-Embedded Genetic Algorithm for a Self-Recovery of an Antenna Array," *2010 ICECom, 20th International Conference on Applied Electromagnetics and Communications*, Dubrovnik, Croatia, 20-23 September, 2010, pp. 1-4.

M. Joler, D. Malnar, and S.E. Barbin, "An FPGA-enhanced genetic algorithm for mitigation

of a flawed array radiation,” *2010 ICEAA, International Conference on Electromagnetics in Advanced Applications*, Sydney, Australia, 20-24 September, 2010, pp. 616-619.

D. Malnar, **M. Joler**, C.G. Christodoulou, “Embedding an Array Self-Recovery Algorithm into an FPGA Controller,” *2010 IEEE AP-S International Symposium on Antennas and Propagation and 2010 USNC/CNC/URSI Meeting*, Toronto, ON, Canada, 11-17 July, 2010, pp. 1-4.

E. Al Zuraiqi, **M. Joler**, C.G. Christodoulou, “Neural Networks FPGA Controller for Reconfigurable Antennas,” *2010 IEEE AP-S International Symposium on Antennas and Propagation and 2010 USNC/CNC/URSI Meeting*, Toronto, ON, Canada, 11-17 July, 2010, pp. 1-4.

M. Joler, C.G. Christodoulou, “On the Development of a Self-Recoverable Antenna System,” *2009 IEEE Antennas and Propagation Society International Symposium, APSURSI’09*, Charleston, SC, 1-5 June 2009, Proceedings, pp. 1-4.

M.A. Alayesh, C.G. Christodoulou, **M. Joler**, and S. Barbin, “Reconfigurable Multi-Band Stacked Microstrip Patch Antenna For Wireless Applications,” *2008 Loughborough Antennas & Propagation Conference*, Loughborough, UK, March 2008, pp. 329-332.

M. Joler, C.G. Christodoulou, E. Schamiloglu, and J. Gaudet, “Effects of the Length-to-Width Ratio on the Pulse Form in the Blumlein Line,” *2005 IEEE AP-S/URSI Symposium*, Washington, DC, July 2005, *Proceedings CD*, abstract.

M. Joler, C.G. Christodoulou, E. Schamiloglu, and J. Gaudet, “Mitigation of Breakdown in a Blumlein Line by Using a Combination of Dielectric Materials,” *2005 IEEE AP-S/URSI Symposium*, Washington, DC, July 2005, *Proceedings CD*, abstract.

M. Joler, C.G. Christodoulou, E. Schamiloglu, and J. Gaudet, “Effects of the Multi-Switch Excitation on the Responsiveness of a Blumlein Line,” *2005 IEEE Int’l Pulsed Power Conference*, Monterey, CA, June 2005, pp. 680-683.

M. Joler, C.G. Christodoulou, E. Schamiloglu, and J. Gaudet, “A Graded-Conductivity Dielectric for Mitigation of Dielectric in a Pulse-Forming Line,” *2005 IEEE Int’l Pulsed Power Conference*, Monterey, CA, June 2005, pp. 1231-1234.

M. Joler, C.G. Christodoulou, J. Gaudet, and E. Schamiloglu, “Effects of Bending in a Stacked, Parallel-Plate Blumlein Pulse-Forming Line,” *2004 IEEE International Conference on Plasma Science (ICOPS)*, Baltimore, MD, June 2004, p. 453, DOI: 10.1109/PLASMA.2004.1340276.

M. Joler, C.G. Christodoulou, E. Schamiloglu, and J. Gaudet, “Effects of a Non-Standard Design of a Dielectric in a Blumlein-Configuration Parallel-Plate Pulse-Forming Line,” *2004 IEEE AP-S/URSI Symposium*, Monterey, CA, June 2004, *Proceedings CD*.

M. Joler, C. Christodoulou, E. Schamiloglu, and J. Gaudet, “Modeling of a Compact, Portable Transmission Line for Pulsed-Power Applications,” *2003 Pulsed Power Conference*, Dallas, TX, USA, June 2003, pp. 253-257.

Y. Ye, S. C. Zhang, F. Dogan, E. Schamiloglu, J. Gaudet, M. Roybal, **M. Joler**, and C. Christodoulou, "Influence of Nanocrystalline Grain Size on the Breakdown Strength of Ceramic Dielectrics," *2003 Pulsed Power Conference*, Dallas, TX, USA, June 2003, pp. 719-722.

E. Schamiloglu, J. Gaudet, M. Roybal, **M. Joler**, and C. Christodoulou, "Studies of ceramic dielectrics for use in high power, pulsed power transmission lines," *Proceedings 30th IEEE International Conference on Plasma Science (ICOPS)*, Jeju, South Korea, June 2003, p. 198., DOI: 10.1109/PLASMA.2003.1228674.

M. Joler, C. Christodoulou, J. Gaudet, E. Schamiloglu, K. Schoenbach, R. Joshi, and M. Laroussi, "Study of High Energy Storage Blumlein Transmission Lines as High Power Microwave Drivers," *Proceedings SAE 2002 Power Systems Conference*, Coral Springs, FL, October 2002, paper 2002-01-3179, *Proceedings CD and SAE Transactions*, vol. 111, no. 1, pp. 716-719.

E. Schamiloglu, C.G. Christodoulou, J. Gaudet, and **M. Joler**, "Progress in the Study of Folded Blumlein Transmission Lines for Compact Pulsed Power Applications," *The Papers of Joint Technical Meeting on Plasma Science and Technology and Pulsed Power Technology, IEE Japan, Proceedings of the Joint Workshop*, Kailua-Kona, Hawaii, August 2002, pp. 75-78.

M. Joler, C. Christodoulou, J. Gaudet, and E. Schamiloglu, "Study of High Dielectric Constant Materials for use in Compact Transmission Lines for HPM Drivers," *Proceedings BEAMS 2002*, Albuquerque, NM, USA, June 2002, pp. 25-28.

M. Joler, C.G. Christodoulou, J. Gaudet, and E. Schamiloglu, "Study of High Energy Storage Blumlein Transmission Lines as High Power Microwave Drivers," *2002 IEEE International Conference on Plasma Science*, Banff, Canada, May 2002, Conference Record p. 283, DOI: 10.1109/PLASMA.2002.1030582.

M. Joler, C.G. Christodoulou, "A Model for the Efficient Remote Control of Programmable Devices and Simulations," *ICECom 2001*, Dubrovnik, Croatia, October 2001, pp. 220-223.

M. Joler, C.G. Christodoulou, "Network of Instruments Shared over the Internet," *NIWeek 2001 - National Instruments Paper Contest 2001*, Austin, TX, August 2001, *Proceedings CD*.

M. Joler, C.G. Christodoulou, "Virtual Laboratory - Instruments and Simulations Remotely Controlled via the Internet," *IEEE AP/URSI Symposium*, Boston, MA, July 2001, pp. 388-391.

Miroslav Joler