

# CURRICULUM VITAE

## **Branislav M. Notaros**

### **Associate Professor**

Department of Electrical and Computer Engineering  
Colorado State University

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### **APPOINTMENTS**

2006- Associate Professor with Tenure, Dept. Electrical & Comp. Eng., Colorado State University  
2004-2006 Associate Professor with Tenure, Dept. Elec./Comp.Eng., Univ.of Massachusetts Dartmouth  
1999-2004 Assistant Professor, Dept. of Electrical & Computer Eng., Univ. of Massachusetts Dartmouth  
1998-1999 Visiting Scholar, Dept. of Electrical & Computer Eng., University of Colorado, Boulder  
1996-1999 Assistant Professor, School of Electrical Engineering, University of Belgrade, Yugoslavia  
1989-1996 Teaching & Research Assistant (faculty position), School EE, Univ. of Belgrade, Yugoslavia

### **PROFESSIONAL PREPARATION**

1988 Dipl.Ing. (B.S.) in Electrical Engineering, University of Belgrade, Sch. of Elec. Eng., Yugoslavia  
1992 M.S. in Electrical Engineering, University of Belgrade, School of Electrical Eng., Yugoslavia  
1995 Ph.D. in Electrical Engineering, University of Belgrade, School of Electrical Eng., Yugoslavia

### **MAJOR AWARDS AND HONORS**

- **2005 IEEE Microwave Prize** – best-paper (journal paper) award by the *Microwave Theory and Techniques Society (MTT-S)* of the *IEEE (Institute of Electrical and Electronics Engineers)* – granted for a paper published in the *IEEE Transactions on Microwave Theory and Techniques* in 2003.
- **1999 IEE Marconi Premium** – best-paper (journal paper) award by the *IEE (Institution of Electrical Engineers)*, London, United Kingdom (IEE-wide award) – granted for a paper published in the *IEE Proceedings on Microwaves, Antennas and Propagation* in 1997/1998.
- **2005 Scholar of the Year Award** – the most prestigious and competitive university-wide award for scholarly accomplishments, University of Massachusetts Dartmouth.
- **2010 College of Engineering George T. Abell Outstanding Teaching and Service Faculty Award**, Colorado State University.
- **2009 ECE Excellence in Teaching Award**, presented at COE Engineering Days (E-Days) Award Ceremony, April 17, 2009 (by nominations and votes of ECE students), CSU.
- **2010 ECE Excellence in Teaching Award**, presented at COE Engineering Days (E-Days) Award Ceremony, April 16, 2010 (by nominations and votes of ECE students), CSU.
- **2011 ECE Excellence in Teaching Award**, presented at COE Engineering Days (E-Days) Award Ceremony, April 15, 2011 (by nominations and votes of ECE students), CSU.

- **1999 URSI Young Scientist Award**, for the *26th URSI (International Union of Radio Science) General Assembly*, Toronto, Canada, 1999.
- **1992 Belgrade Chamber of Industry and Commerce Award** – best M.S. Thesis annual award, Yugoslavia, 1992.
- **2004 Dean’s Recognition Award** – the first ECE recipient in the first year of the newly established College of Engineering award for outstanding accomplishments, UMass Dartmouth.
- **Nomination** by ECE Department and College of Engineering for the **2011 Board of Governors’ Excellence in Undergraduate Teaching Award**, CSU.
- Delivered the **faculty charge at the Spring 2011 College of Engineering Commencement**, on May 13, 2011, in Moby Arena, CSU –  
Speech: [http://cope.colostate.edu/CCS/comm/Engineering\\_Spring\\_2011.wmv](http://cope.colostate.edu/CCS/comm/Engineering_Spring_2011.wmv)

### **MAJOR EXTERNAL RESEARCH GRANTS**

- (1) Grant **“Diakoptic Approach to Modeling and Design of Complex Electromagnetic Systems,”** from the *National Science Foundation, Engineering Directorate, Electrical, Communications and Cyber Systems (ECCS) Division, Integrative, Hybrid and Complex Systems (IHCS) Program*, unsolicited grant, PI Branislav Notaros (single-investigator grant), start date May 1, 2010, end date April 30, 2013, \$360,000, Award No. ECCS-1002385 (Program Director: Dr. Andreas Weisshaar).  
**Award abstract:** <http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=1002385>
- (2) Grant “NSF MRI: Acquisition of the ISTeC High Performance Computing Infrastructure for Science and Engineering Research Projects,” *2009 NSF Major Research Instrumentation Program*, PIs: H. J. Siegel and P. J. Burns, submitted on January 22, 2009, awarded, \$627,326 (B. Notaros – one of shorter submissions in the proposal, not co-PI).
- (3) Grant “Analysis of Structures for 3-D ALERT,” subcontract from the University of Colorado at Boulder, Phase 0 DARPA grant, collaboration of CU Boulder (Prof. Zoya Popovic), CSU, and BAE Systems. CSU budget \$20,000, start date February 23, 2007, end date March 31, 2007. CSU PI Branislav Notaros.
- (4) Grant **“Efficient Higher Order Techniques for Electromagnetic Modeling and Design of Photonic Crystal Structures,”** from the *National Science Foundation, Engineering Directorate, Electrical, Communications and Cyber Systems (ECCS) Division, Integrative, Hybrid and Complex Systems (IHCS) Program*, unsolicited grant, PI Branislav Notaros (single-investigator grant), start date September 1, 2006, end date August 31, 2011, \$410,396, Award No. ECCS-0650719 (Program Director: Dr. Leda Lunardi).  
**Award abstract:** <http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0650719>
- (5) Grant “Textile Based Carbon Nanostructured Flexible Antenna,” from the *National Textile Center (NTC), Competency: Materials*, B. Notaros is a co-PI, collaborative project with colleagues in the ECE Department and Materials and Textiles Department at UMass Dartmouth and Rennselaer Polytechnic Institute, start date June 1, 2006, end date May 31, 2009, \$155,000 per year, Project ID: M06-MD01.
- (6) Grant **“Higher-Order Finite Element-Moment Method Modeling Techniques for Conformal Antenna Applications,”** from the *National Science Foundation, Engineering Directorate, Electrical, Communications and Cyber Systems Division, Electronics, Photonics, and Device Technologies (EPDT) Program*, unsolicited grant, PI Branislav Notaros (single-investigator grant), start date

September 1, 2003, end date August 31, 2009, \$249,417, Award No. ECCS-0647380 (Program Director: Dr. Kawthar A. Zaki).

**Award abstract:** <http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0324345>

- (7) Grant “**Large-Domain Hybrid Moment Method–Physical Optics Techniques for Efficient and Accurate Electromagnetic Modeling of Cars and Aircraft over a Wide Range of Frequencies,**” from the *National Science Foundation, Engineering Directorate, Electrical and Communications Systems Division, EPDT Program*, unsolicited grant, PI Branislav Notaros (single-investigator grant), start date September 1, 2001, end date August 31, 2005, \$192,000, Award No. ECS-0115756 (Program Director: Dr. James W. Mink).

**Award abstract:** <http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0115756>

- (8) NSF Foundation Coalition grant, project “Electromagnetics Concept Inventory” – Branislav Notaros, *National Science Foundation, Engineering Directorate, Engineering Education and Centers Division*, start date June 1, 2000, end date August 31, 2003, approx. \$70,000, Award No. EEC-9802942.

### **TEACHING EXPERIENCE**

- **22 years of teaching experience as faculty member** (15 years as Assistant and Associate Professor) in Electrical Engineering at the University of Belgrade, Yugoslavia, University of Colorado at Boulder, University of Massachusetts Dartmouth, and Colorado State University.
- **Courses taught at Colorado State University:**
  - ECE 341, Electromagnetic Fields I, Fall 2008 and Fall 2009;
  - ECE 342, Electromagnetic Fields II, Spring 2011;
  - ECE 641, Electromagnetics, Fall 2007, Spring 2009, and Spring 2010;
  - ECE 642, Time Harmonic Electromagnetics, Spring 2008 and Spring 2011;
  - ECE 444, Antennas and Radiation, Fall 2007, Fall 2008, Fall 2009, Fall 2010, and Fall 2011;
  - Independent Study ENGR 498 Spring 2009, Spring 2010, and Summer 2011, ECE 395 Spring 2008, ECE 695 Fall 2008, ECE 495 Fall 2010, MECH 495 Spring 2010;
  - New course: ECE 540 Computational Electromagnetics (scheduled for Spring 2012).
  - Senior design projects “CSU Antenna Test Range”, AYs 2008/09, 2009/10, 2010/11, 2011/12, and “Antenna Design”, AY 2011/12.
- **At UMass Dartmouth, at the undergraduate level**, was constantly teaching a two-course junior-level sequence on electromagnetic fields and waves required for all electrical engineering majors:
  - ECE 335, Electromagnetic Theory I;
  - ECE 336, Electromagnetic Theory II.
- **At UMass Dartmouth, at the graduate level**, introduced five new courses in applied electromagnetics:
  - ECE 536, Applied Computational Electromagnetics;
  - ECE 537, Antenna Theory;
  - ECE 538, Advanced Antenna Engineering;
  - ECE 539, Electromagnetics of Signal Integrity;
  - ECE 540, Electromagnetics.
  - Also ECE 595, Independent Study (for several advanced graduate topics/courses).

- **Courses taught at the University of Belgrade**, School of Electrical Engineering:
  - EF10E, Fundamentals of Electrical Engineering [a huge freshmen-level two-semester (full-year) course on basic circuits and fields, with 8 hours of lectures, recitations, and lab per week];
  - TE3E, Electromagnetics (junior-level, two-semester course);
  - RI3E, Electromagnetics for Computer Engineers (junior-level, one-semester course);
  - EG3E, Electromagnetics for Power Engineers (junior-level, one-semester course);
  - TE5PE, Applied Electromagnetics (senior/graduate elective).
- **Undergraduate academic advisor** for a number of Electrical Engineering majors (typically 15 students in every year) at UMass Dartmouth. **Faculty mentor** for four ECE undergraduate students, Spring 2011, CSU.

### **STUDENT ADVISING/SUPERVISION**

- **Three Ph.D. graduates**, Dr. Milan Ilic (“Higher Order Hexahedral Finite Elements for Electromagnetic Modeling,” 2003), Dr. Miroslav Djordjevic (“Numerical Methods for Electromagnetic Modeling of Vehicles over a Wide Range of Frequencies,” 2004), and Dr. Eve Klopff (“Optimal Higher Order Modeling Methodology Based on Method of Moments and Finite Element Method for Electromagnetics,” defended 9 Sept. 2011).
- **Thirteen other M.S. and Ph.D. students** in the areas of computational electromagnetic and antennas (at both University of Massachusetts Dartmouth and Colorado State University).
- **Six undergraduate Research Assistants** on “Research Experiences for Undergraduates (REU)” supplemental NSF grants (at both UMD and CSU).
- **Three postdocs** (Research Associates) (at both UMD and CSU).
- **Current Ph.D. graduate students** fully supported on NSF grants: Eve Klopff, Ana Manic, Nada Sekeljic, Sanja Manic, and Elene Chobanyan.

#### *Graduate Committee Assignments at CSU:*

- Served on PhD and MS committees of **26 students** (with other colleagues as major advisors).

#### *Undergraduate Research/Senior Design Advising at CSU:*

- Senior design project “CSU Antenna Test Range”, AYs 2008/09, 2009/10, 2010/11, 2011/12, a total of **14 students** so far. Please see the project web site at <http://www.atr.steveonweb.com/>, <http://www.engr.colostate.edu/ece-sr-design/AY09/antenna/index.shtml>, <http://www.engr.colostate.edu/ece-sr-design/AY10/antenna/index.shtml>. Our project and team won the **First Place Award at Senior Design Project Competition at COE Engineering Days (E-Days)**, April 17, 2009.
- Senior design project “Antenna Design”, AY 2011/12, **3 students**.
- NSF REU - Research Experiences for Undergraduates – students:
  - She-ming Allen Chen,
  - Steven Turner,
  - Amy Standley,
  - Joseph Kelly.

*Postdocs at CSU:*

- Dr. Milan Ilic, Postdoctoral Fellow (Summer 2007, Summer 2008, Summer 2009, Summer 2010, Summer 2011)
- Dr. Miroslav Djordjevic, Postdoctoral Fellow (Summer 2008)

## **ELECTROMAGNETICS EDUCATION RESEARCH**

- (1) **New Textbook “Electromagnetics” for Undergraduates with PEARSON Prentice Hall.** B. Notaros is the author or coauthor of several textbooks in electromagnetics and in fundamentals of electrical engineering (basic circuits and fields). In addition, he has just published his new comprehensive textbook “Electromagnetics” (840 pages) for undergraduates with PEARSON Prentice Hall. The new book introduces many unique pedagogical features not present in any of the many existing undergraduate electromagnetics textbooks [there are an extremely large number (~30) of quite different textbooks for undergraduate electromagnetics available and “active” – perhaps more than for any other discipline in science and engineering]. In specific, it provides several nonstandard theoretically and practically important chapters and sections, new style and approaches to presenting challenging topics and abstract EM phenomena, numerous modern supplements, original teaching and learning tools, and some unique recipes and pedagogical guides for electromagnetic field computation and problem solving. It is meant as an “ultimate resource” for undergraduate electromagnetics.

*Book website:* <http://www.pearsonhighered.com/product?ISBN=0132433842>

- (2) **Computer Exercises in Electromagnetics Using MATLAB**, 350 pages, an e-book (separate ISBN), supplement to the new textbook “Electromagnetics” published by PEARSON Prentice Hall. There are a total of 478 MATLAB exercises, to supplement problems and conceptual questions. The Exercises include 135 tutorials with detailed completely worked out solutions merged with listings of MATLAB codes (m files), 58 movies developed and played in MATLAB, 156 figures generated in MATLAB, 16 graphical user interfaces (GUIs) built in MATLAB, etc. Assignments of computer exercises in parallel with traditional problems can help students develop a stronger intuition and a deeper understanding of electromagnetics and find it more attractive and likable. Moreover, this approach, requiring MATLAB programming, actively challenges and involves the student, providing additional benefit as compared to a passive computer demonstration.

<http://www.pearsonhighered.com/notaros/>

- (3) **Conceptual Questions in Electromagnetics**, 160 pages, an e-supplement to the new textbook “Electromagnetics” published by PEARSON Prentice Hall. This collection provides 500 Conceptual Questions – these are multiple-choice questions that focus on the core concepts of the material, requiring conceptual reasoning and understanding rather than calculations. Pedagogically, they are an invaluable resource. They can be given for homework and on exams, and are also ideal for interactive in-class questions, explorations, and discussions (usually referred to as active teaching and learning), for student-to-student interaction and students teaching one another (so-called peer instruction, initiated by Eric Mazur in introductory physics), and for team work and exchange of ideas (collaborative teaching/learning). In addition, conceptual questions are perfectly suited for class assessments, as partial and final assessment instruments for individual topics at different points in the course and for the entire class.

<http://www.pearsonhighered.com/notaros/>

- (4) **Electromagnetics Concept Inventory (EMCI)**, an assessment tool for measuring students' understanding of fundamental concepts in electromagnetics. This work was supported by the *Engineering Education Program* of the *National Science Foundation*, through the NSF Foundation Coalition grant. The EMCI is especially important in light of the new accreditation standards in engineering – *ABET 2000 Criteria* (the key word in these criteria is 'assessment'). (A copy of the EMCI can be obtained upon request at [notaros@colostate.edu](mailto:notaros@colostate.edu)).  
<http://www.foundationcoalition.org/home/keycomponents/concept/electromagnetics.html>
- (5) **Assessment Methodologies for Engineering Education** – participated in several national meetings and multi-university research studies devoted to conceptual assessment instruments and other assessment techniques, as well as curricular reforms, in engineering education. Participated in organization and delivery of panel sessions on the tools for assessing conceptual understanding in engineering sciences at the *ASEE/IEEE Frontiers in Education Conferences* and the *Concept Inventory Developers Meetings*, gave talks and has papers on concept inventory assessment instruments for electromagnetics education.

### **PROFESSIONAL SOCIETY MEMBERSHIPS**

- Senior Member of the *IEEE (Institute of Electrical and Electronics Engineers)*.
- Member (Senior Member) of the *IEEE Antennas and Propagation Society*, *IEEE Microwave Theory and Techniques Society*, and *IEEE Education Society*.
- Member of the *Applied Computational Electromagnetics Society (ACES)*.
- Member of the *IEEE Antennas and Propagation Society Education Committee*.
- Fellow of *The Electromagnetics Academy*.
- Biographical listing: *Marquis Who's Who in America*, *Marquis Who's Who in the World*, *Marquis Who's Who in American Education*, *Marquis Who's Who in Science and Engineering*, and *Marquis Who's Who in Finance and Business*.

### **SERVICE AS REVIEWER OF JOURNAL PAPERS, BOOKS, CONFERENCES, NSF PANELIST**

- Served as a **reviewer of journal papers on more than 150 occasions** within last several years.
- Regularly serves as reviewer for the *IEEE Transactions on Antennas and Propagation* and for the *IEEE Transactions on Microwave Theory and Techniques*, and frequently for the *IEEE Antennas and Wireless Propagation Letters*.
- Periodically serves as reviewer for *Nature*, *Journal of Computational Physics*, *International Journal of RF and Microwave Computer-Aided Engineering*, *IET Microwaves, Antennas & Propagation*, *International Journal for Numerical Methods in Engineering*, *International Journal of Engineering Analysis with Boundary Elements*, *APS Magazine*, *IEEE Transactions on Wireless Communications*, *IEEE Sensors Journal*, *International Journal of Numerical Modeling*, etc.
- Reviewer for a number of book series and conferences.
- Serves as reviewer of applications for *IEEE Antennas and Propagation Society Pre-Doctoral and Doctoral Research Awards*, *Student Paper Awards*, *Student Design Competitions*, etc.

- Frequently serves as **reviewer and panelist for the National Science Foundation**, *Engineering Directorate, Electrical, Communications and Cyber Systems (ECCS) Division*, and also *NSF Office of International Science and Engineering*.
- Proposal reviews for other institutions and agencies.

### **CONFERENCE SESSION CHAIR AND ORGANIZER, CONFERENCE CHAIR**

- (1) General Chair for the *11<sup>th</sup> International Workshop on Finite Elements for Microwave Engineering – FEM2012*, June 4-6, 2012, The Stanley Hotel, Estes Park, Colorado, USA,  
<http://www.engr.colostate.edu/FEM2012>
- (2) Organizer and Chair of Special Session “25 Years of Progress and Future Challenges in Applied Computational Electromagnetics” for the *25th Annual Review of Progress in Applied Computational Electromagnetics – ACES 2009*, March 10, 2009, Monterey, California.
- (3) Organizer and Chair of the Special Session “Emerging Techniques and Applications for Computational Modeling Technologies: Academic and Commercial Aspects and Challenges,” for the *URSI CNC/USNC North American Radio Science Meeting - URSI 2007*, July 24, 2007, Ottawa, ON, Canada.
- (4) Organizer and Chair of the Special Session “Emerging Computational Electromagnetic Modeling Technologies: Academic and Commercial Aspects and Challenges” for the *2006 IEEE APS International Symposium and USNC/URSI National Radio Science Meeting*, July 10, 2006, Albuquerque, NM (AP special session).
- (5) Member of the Host Committee of the *2005 AMTA (Antenna Measurement Techniques Association) Symposium*, October 30 – November 4, 2005, Newport, Rhode Island.
- (6) Organizer and Chair of the Special Session “Higher Order Computational Electromagnetics” of the *2005 IEEE APS International Symposium and USNC/URSI National Radio Science Meeting*, July 7, 2005, Washington, D.C. (joint AP/URSI B special session).
- (7) Chair for the Session “Method of Moments Basis Functions and Grids” of the *2003 IEEE Antennas and Propagation Society International Symposium*, June 26, 2003, Columbus, Ohio.
- (8) Chair for the Session “Electromagnetics Education” of the *2002 IEEE Antennas and Propagation Society International Symposium*, June 17, 2002, San Antonio, Texas.
- (9) Chair for the Session “Applications of Integral Equation Techniques” of the *2001 IEEE Antennas and Propagation Society International Symposium*, July 10, 2001, Boston, Massachusetts.

### **UNIVERSITY SERVICE**

- Chair of the ECE Curriculum Committee, Department of Electrical and Computer Engineering, Colorado State University.
- Member of the College Curriculum Committee, College of Engineering, CSU.
- Chair of the ECE Faculty Search Committee, 2006/2007, CSU.
- Initiator and organizer of the new ECE Seminar Series, 2007, 2008, 2009, 2010, CSU.

- Member of the ECE Tenure and Promotion Committee, CSU.
- Representative of UMass Dartmouth campus (together with the Provost and another faculty member) on the newly established UMass system-wide Research Council. The council has been appointed by President Jack Wilson to advise him and the vice presidents on policies to enhance research activity on the five campuses. The kick-off meeting with the president and vice presidents occurred on May 5, 2006.
- Member of the University Committee to Support Research and Creative Activity (new committee to solicit and review proposals for Chancellor's Research/UMass Healey Endowment Grants), University of Massachusetts Dartmouth.
- Member of Chancellor's Advisory Committee for the Chancellor's Colloquium Series, UMD.
- Member of the Faculty Senate, UMD.
- Member of the University Curriculum Committee (2002-2004), UMD.
- Founding Director of the Telecommunications Laboratory in the Advanced Technology and Manufacturing Center (ATMC) at UMass Dartmouth.
- Performed the work that led up to equipment donations valued at about \$100,000 for the ATMC Telecommunications (Antenna) Laboratory, UMD.
- Chair of the College of Engineering Research Seed Initiative Grants Review Committee, UMD.
- Member of the ECE Graduate Committee, UMD.
- Chair of the ECE Ph.D. Qualifying Examination Committee, UMD.
- Chair of the ECE Web and Publications Committee, UMD.
- Member of the ECE Faculty Evaluation Standards Committee, UMD.
- Member of the Electrical Engineering Curriculum Committee, UMD.
- Member of the ECE Faculty Evaluation Committee, UMD.
- Coordinator of the ECE Microwave Teaching Laboratory, UMD.
- General Chair (for five years, 1994-1998) of the Organization and Steering Committee of a joint national entrance examination (in mathematics, physics, and chemistry) for 10 schools (departments) in engineering and natural sciences of the University of Belgrade, Yugoslavia, for the admission of new students (attempted every year by as many as about 4,000 prospective students, taking the tests simultaneously over two days in three large halls at Belgrade Fairgrounds).

### **U.S. RESIDENCY/CITIZENSHIP STATUS**

- U.S. citizen.

### **TEXTBOOKS**

- (1) B. M. Notaros, "*Electromagnetics*," textbook for undergraduates, 840 pages (PEARSON Prentice Hall, 2010).

- (2) B. M. Notaros, “*Computer Exercises in Electromagnetics Using MATLAB*,” 350 pages, e-book, supplement to “*Electromagnetics*” (PEARSON Prentice Hall, 2010).
- (3) B. M. Notaros, “*Conceptual Questions in Electromagnetics*,” 160 pages, an e-supplement to “*Electromagnetics*” (PEARSON Prentice Hall, 2010).
- (4) B. M. Notaros, V. V. Petrovic, M. M. Ilic, and A. R. Djordjevic, B. M. Kolundzija, and M. B. Dragovic, “*Collection of Examination Questions and Problems in Electromagnetics*” (371 pages) (Academic Press, Belgrade, Yugoslavia, 1998) (in Serbian language).
- (5) A. R. Djordjevic, G. N. Bozilovic, and B. M. Notaros, “*Collection of Examination Problems in Fundamentals of Electrical Engineering with Solutions, Part I, Electrostatic Fields and Circuits with dc Currents*” (159 pages) (Academic Press, Belgrade, Yugoslavia, 1997) (in Serbian language).
- (6) A. R. Djordjevic, G. N. Bozilovic, and B. M. Notaros, “*Collection of Examination Problems in Fundamentals of Electrical Engineering with Solutions, Part II, Magnetism and Circuits with ac Currents*” (164 pages) (Academic Press, Belgrade, Yugoslavia, 1997) (in Serbian language).

#### **CHAPTER IN A MONOGRAPH**

- (1) B. D. Popovic and B. M. Notaros, “Large-Domain MoM for CAD of Antennas and Scatterers” in *Applied Computational Electromagnetics: State of the Art and Future Trends*, Edited by N.K. Uzunogly, K.S. Nikita, and D.I. Kaklamani, NATO ASI Series, Series F: Computer and Systems Sciences, Vol. 171 (Springer, Berlin, 2000), pp.46-59.

#### **JOURNAL PAPERS**

- (1) E. M. Klopff, S. B. Manic, M. M. Ilic, and B. M. Notaros, “Efficient Time-Domain Analysis of Waveguide Discontinuities Using Higher Order FEM in Frequency Domain,” *Progress In Electromagnetics Research*, Vol. 120, 2011, pp. 215-234.
- (2) S. V. Savic, M. M. Ilic, B. M. Kolundzija, and B. M. Notaros, “Efficient Modeling of Complex Electromagnetic Structures Based on the Novel Algorithm for Spatial Segmentation Using Hexahedral Finite Elements,” *Telfor Journal*, Vol. 2, No. 2, 2010, pp. 98-101.
- (3) M. M. Ilic and B. M. Notaros, “Higher Order FEM-MoM Domain Decomposition for 3-D Electromagnetic Analysis,” *IEEE Antennas and Wireless Propagation Letters*, Vol. 8, 2009, pp. 970-973.
- (4) M. M. Ilic, A. Z. Ilic, and B. M. Notaros, “Continuously Inhomogeneous Higher Order Finite Elements for 3-D Electromagnetic Analysis,” *IEEE Transactions on Antennas and Propagations*, Vol. 57, No. 9, September 2009, pp. 2798-2803.
- (5) M. M. Ilić, M. Djordjević, A. Ž. Ilić, and B. M. Notaroš, “Higher order hybrid FEM-MoM technique for analysis of antennas and scatterers,” *IEEE Trans. Antennas Propag.*, vol. 57, pp. 1452-1460, May 2009.
- (6) A. Z. Ilic, S. V. Savic, M. M. Ilic, and B. M. Notaros, “Analysis of Electromagnetic Scatterers Using Hybrid Higher Order FEM-MoM Technique,” *Telfor Journal*, Vol. 1, No. 2, 2009, pp. 53-56.

- (7) B. M. Notaros, "Higher Order Frequency-Domain Computational Electromagnetics," **invited review paper**, Special Issue on Large and Multiscale Computational Electromagnetics, *IEEE Transactions on Antennas and Propagation*, Vol. 56, No. 8, August 2008, pp. 2251-2276.
- (8) M. M. Ilic, A. Z. Ilic, and B. M. Notaros, "Comparison of Higher Order FEM and MoM/SIE Approaches in Analyses of Closed- and Open-Region Electromagnetic Problems," *Facta Universitatis, Ser.: Elec. Energ.*, Vol. 21, No. 2, August 2008, pp. 209-220.
- (9) M. M. Ilic and B. M. Notaros, "Higher Order Large-Domain Hierarchical FEM Technique for Electromagnetic Modeling Using Legendre Basis Functions on Generalized Hexahedra," *Electromagnetics*, Vol. 26, No. 7, October 2006, pp. 517-529.
- (10) M. M. Ilic, A. Z. Ilic, and B. M. Notaros, "Efficient Large-Domain 2-D FEM Solution of Arbitrary Waveguides Using  $p$ -Refinement on Generalized Quadrilaterals," *IEEE Transactions on Microwave Theory and Techniques*, Vol. 53, No. 4, April 2005, pp.1377-1383.
- (11) M. Djordjevic and B. M. Notaros, "Higher Order Hybrid Method of Moments–Physical Optics Modeling Technique for Radiation and Scattering from Large Perfectly Conducting Surfaces," *IEEE Transactions on Antennas and Propagation*, Vol. 53, No. 2, February 2005, pp.800-813.
- (12) M. Djordjevic and B. M. Notaros, "Double Higher Order Method of Moments for Surface Integral Equation Modeling of Metallic and Dielectric Antennas and Scatterers," *IEEE Transactions on Antennas and Propagation*, Vol. 52, No. 8, August 2004, pp. 2118-2129.
- (13) M. M. Ilic, A. Z. Ilic, and B. M. Notaros, "Higher Order Large-Domain FEM Modeling of 3-D Multiport Waveguide Structures with Arbitrary Discontinuities," *IEEE Transactions on Microwave Theory and Techniques*, Vol. 52, No. 6, June 2004, pp.1608-1614.
- (14) M. Djordjevic and B. M. Notaros, "Higher-Order Hierarchical Basis Functions with Improved Orthogonality Properties for Moment-Method Modeling of Metallic and Dielectric Microwave Structures," *Microwave and Optical Technology Letters*, April 20 2003, Vol. 37, No. 2, pp. 83-88.
- (15) B. M. Notaros and B. D. Popovic, "Generalized Excitations and Loads for Electromagnetic Analysis with Boundary Elements," **invited paper**, *International Journal of Engineering Analysis with Boundary Elements*, ELSEVIER, Special Issue on Electromagnetics, April 2003, Vol.27, (4), pp.333-343.
- (16) M. M. Ilic and B. M. Notaros, "Higher Order Hierarchical Curved Hexahedral Vector Finite Elements for Electromagnetic Modeling," *IEEE Transactions on Microwave Theory and Techniques*, March 2003, Vol.51, (3), pp.1026-1033. **Winner of the 2005 IEEE MTT-S Microwave Prize.**
- (17) B. M. Notaros, B. D. Popovic, J. P. Weem, R. A. Brown, and Z. Popovic, "Efficient large-domain MoM solutions to electrically large practical EM problems," *IEEE Transactions on Microwave Theory and Techniques*, January 2001, Vol. 49, (1), pp.151-159.
- (18) B. M. Notaros and B. D. Popovic, "Large-domain integral-equation method for analysis of general 3-D electromagnetic structures," *IEE Proceedings - Microwaves, Antennas and Propagation*, December 1998, Vol. 145, (6), pp.491-495.
- (19) B. D. Popovic, B. M. Notaros, and Z. B. Popovic: "A new class of cophasal antenna arrays with simple compact feeds," *Electromagnetics*, 1998, Vol. 18, (5), pp.507-518.
- (20) B. M. Notaros and B. D. Popovic, "General entire-domain Galerkin method for analysis of wire antennas in the presence of dielectric bodies," *IEE Proceedings - Microwaves, Antennas and Propagation*, February 1998, Vol. 145, (1), pp.13-18. **Winner of the 1999 IEE Marconi Premium.**

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