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**OBJECTIVE** Chair Position in Computer Science.

## EDUCATION

<b>Ph.D. in Computer Science</b> , Temple University, Philadelphia, PA, USA	2002	GPA	4.00/4.00
<b>MBA</b> , Delaware State University, Dover, DE, USA	2013	GPA	3.72/4.00
<b>M.S. Telecommunication systems</b> , University of Nis, Serbia,	1997	GPA	10.00/10.00
<b>B.S. Electronics, minor Telecommunications</b> , University of Nis, Serbia,	1993	GPA	9.97/10.00

## EMPLOYMENT HISTORY

<b>Affiliate Graduate Faculty</b>	3/2012-present	Virginia Commonwealth University, Richmond, VA
<b>Professor</b>	8/2011-present	Delaware State University, Dover, DE
<b>Visiting Scholar</b>	9/2010-present	University of Pennsylvania, Philadelphia, PA
<b>Senior Scientist</b>	7/2008-3/2010	VIP Mobile, Inc., San Francisco, CA
<b>Associate Professor</b>	8/2007-8/2011	Delaware State University, Dover, DE
<b>Assistant Professor</b>	8/2002-8/2007	Delaware State University, Dover, DE
<b>Adjunct Professor</b>	6/2002-7/2002	Temple University, Philadelphia, PA
<b>Teaching/Research Assistant</b>	9/2000-6/2002	Temple University, Philadelphia, PA
<b>Software Engineer</b>	6/2000-8/2000	Advanced Biometrics, Inc., Puyallup, WA
<b>Teaching/Research Assistant</b>	1/1998-5/2000	Washington State University, Pullman, WA
<b>Lecturer</b>	3/1997-12/1997	University of Nis, Serbia
<b>Assistant Lecturer</b>	11/1993-2/1997	University of Nis, Serbia

## RESEARCH INTEREST

Multidisciplinary research. Machine learning algorithms, applied mathematics, databases, data mining, homeland security, video-analysis, bioinformatics, signal processing, image processing, spatial-temporal statistics.

## ACADEMIC GRANTS

**Title:** Center for Research and Education in Optical Sciences and Applications: Promoting Scientific Discoveries, Technological Advances, and STEM Education  
**Agency:** NSF  
**Duration:** 2012-2017  
**Role:** Senior personnel  
**Amount:** \$5,000,000  
**Status:** Funded

**Title:** Participation to Science Fair in Nis, Serbia  
**Agency:** US Embassy Belgrade, Public Affairs Office  
**Duration:** 2012  
**Role:** Participant  
**Amount:** \$1,046  
**Status:** Funded

**Title:** Center for Advanced Algorithms (W911NF-11-2-0046)  
**Agency:** US Department of Defense/Department of Army (DoD/DoA)  
**Duration:** 2011-2016  
**Role:** co-Principal Investigator  
**Amount:** \$3,048,761  
**Status:** Funded

**Title:** Image-Based Biomarker of Breast Cancer Risk: Analysis of Risk Disparity among Minority Populations  
**Agency:** US DoD/DoA  
**Duration:** 2009-2013  
**Role:** co-Principal Investigator  
**Amount:** \$1,322,501  
**Status:** Funded

**Title:** Documentaries from Transitional Eastern European Countries  
**Agency:** Delaware Humanities Forum  
**Duration:** 2009  
**Role:** Principal Investigator  
**Amount:** \$2,000  
**Status:** Funded

**Title:** Adaptive Approach to Identify Unusual Behavior in Video Imagery  
**Agency:** US DoD/DoA  
**Duration:** 2008-2012  
**Role:** Principal Investigator  
**Amount:** \$700,000  
**Status:** Funded

**Title:** Transportation and Public Safety Information Exchange Pilot Project  
**Agency:** US Department of Transportation  
**Duration:** 2008-2009  
**Role:** Project Director  
**Amount:** \$328,297  
**Status:** Funded

**Title:** Creation of the Center for Research and Education in Optical Sciences and Applications (CREOSA) at Delaware State University  
**Agency:** National Science Foundation (NSF)  
**Duration:** 2006-2011

**Role:** Principal Investigator for subproject (co-Principal Investigator of the whole project)  
**Amount:** \$4,959,863  
**Status:** Funded

**Title:** **Environmental Cooperative Science Center**  
**Agency:** U.S. Department of Commerce NA06OAR4810164  
**Duration:** 2006-2011  
**Role:** Information Theory and Data Analysis Specialist  
**Amount:** \$12,500,000 (DSU \$1,041,436)  
**Status:** Funded

**Title:** **Analysis of 3D Breast Surface Deformation During Mammographic Compression**  
**Agency:** **Delaware INBRE/ NIH/NCRR**  
**Duration:** 2006-2008  
**Role:** co-Principal Investigator  
**Amount:** \$160,000  
**Status:** Funded

**Title:** **Investigation the Neurobiology of Sensory Processing and Learning in an Invertebrate Model System**  
**Agency:** **Delaware INBRE/ NIH/NCRR**  
**Duration:** 2006-2008  
**Role:** co-Principal Investigator  
**Amount:** \$160,000  
**Status:** Funded

**Title:** **Seeds of Success: A Comprehensive Program for the Retention, Quality Training, and Advancement of STEM Students**  
**Agency:** **National Science Foundation, #0310163**  
**Duration:** 2003-2008  
**Role:** Senior Personnel  
**Amount:** \$2,498,376  
**Status:** Funded

**Title:** **Delaware IDeA Network of Biomedical Research Excellence(INBRE)**  
**Agency:** **NIH—National Center for Research Resources (NCRR)**  
**Duration:** 2003-2008  
**Role:** Affiliated Faculty  
**Amount:** \$3,000,000 (at DSU)  
**Status:** Funded

**Title:** **Delaware State University Applied Mathematics Research Center**  
**Agency:** **US DoD/DoA, # DAAD19-03-1-0375**  
**Duration:** 2003-2008  
**Role:** co-Principal Investigator  
**Amount:** \$4,000,000  
**Status:** Funded

**Title:** MRI, Acquisition of a High Performance Computational Cluster at an HBCU for the Support of a Research and Research Training in Computer Science, Engineering and Physics

**Agency:** National Science Foundation, #0320991

**Duration:** 2003-2005

**Role:** co-Principal Investigator

**Amount:** \$278,331

**Status:** Funded

**Title:** Girls Explorations in Mathematics and Science (GEMS)

**Agency:** US Department of Education, Award # P120A030031

**Duration:** 2003-2005

**Role:** Program Faculty

**DSU Principal Investigator:** Dr Mazen Shahin

**Amount:** \$25,000

**Status:** Funded

**Title:** Spatial Data Mining of Earth Observation Data

**Agency:** DSU Professional Development Fund

**Duration:** 2003

**Role:** Principal Investigator

**Amount:** \$3,500

**Status:** Funded

**Title:** Delaware Biomedical Research Infrastructure Network

**Agency:** NIH—National Center for Research Resources (NCRR)

**Duration:** 2002-2004

**Role:** Affiliated Faculty

**Amount:** \$1,500,000

**Status:** Funded

## INVENTIONS AND PATENTS

Z. Obradovic, T. Fiez, A. Lazarevic, S. Vucetic, **D. Pokrajac**, R. L. Hoskinson: *Systems and Methods for Knowledge Discovery in Spatial Data*, US Patent 6,865,582, Date March 8, 2005.

M. Rasamny, **D. Pokrajac**, *Interactive Virtual Expert System for Advising (InVEStA)*, Software System designed and implemented at Delaware State University, 2002-2006.

N. Loncar, **D. Pokrajac**, *Intelligent System for Detecting Anomalous Behavior based on Acoustic Signals*, 2006.

**D. Pokrajac**, A. Lazarevic L.J. Latecki, *Incremental Local Outlier Factor Algorithm*, Software System, 2006.

**D. Pokrajac**, P. Bakic, A. D. Maidment, *Method for Simulation of Multi-dimensional Spatial Regions*, US Provisional Patent, Application number 61511227, filed July 25, 2011.

**PUBLICATIONS****JOURNAL ARTICLES:**

1. **D. Pokrajac**, Z.Nikolic, "A Correction to Kurt Metzger's algorithm," *IEEE Trans. Communication*, Vol. 42, No. 12, pp. 2868, 1995.
2. S. Glisic, Z. Nikolic, **D. Pokrajac**, "ASK Signal Influence Rejection in DS Spread Spectrum Systems," *Facta Universitatis, Ser. Elect. and Energ.* Vol. 10, No. 1, pp. 57-63, 1997.
3. S. Glisic, Z. Nikolic, **D. Pokrajac**, P. Leppanen, "Performance Enhancement of DS Spread Spectrum systems: Two Dimensional Interference Suppression," *IEEE Trans. Communication*, Vol. 47, No. 10, pp.1549-1560, 1999.
4. **D. Pokrajac**, A. Lazarevic, Z.Obradovic, "Exploration-Exploitation Trade-Off in Machine Learning," *Facta Universitatis, Ser. Elect. and Energ.*, Vol. 14, No. 1, pp. 67-90, 2001
5. **D.Pokrajac**, T. Fiez, Z. Obradovic, "A Data Generator for Evaluating Spatial Issues in Precision Agriculture," *Precision Agriculture*, 2002, Vol.3, No. 3, pp. 259-281.
6. **D. Pokrajac**, R. Hoskinson, Z.Obradovic, "Modeling Spatial-Temporal Data with a Short Observation History," *Knowledge and Information Systems (KAIS)*, 2003, Vol.5, No. 3, pp. 368-386.
7. **D. Pokrajac**, V. Megalooikonomou, A. Lazarevic, D. Kontos, Z. Obradovic, "Applying Spatial Distribution Analysis Techniques to Classification of 3D Medical Images," *Artificial Intelligence in Medicine*, Vol. 33, pp. 261-280, 2005.
8. L. J. Latecki, R. Miezianko, **D. Pokrajac**, "Reliability of Motion Features in Surveillance Videos," *Integrated Computer-Aided Engineering*, Vol. 12, No. 3, pp. 279-290, 2005.
9. **D. Pokrajac**, J. Milutinovich, Z. Obradovic, "Toward Neural Network-Based Profit Optimization," *Facta Universitatis, Ser. Economics and Organization*, Vol. 2, No 3, pp. 261 – 275, 2005.
10. L. J. Latecki, R. Miezianko, V. Megalooikonomou, **D. Pokrajac**, "Using Spatiotemporal Blocks to Reduce the Uncertainty in Detecting and Tracking Moving Objects in Video," *International Journal of Intelligent Systems Technologies and Applications*, Vol. 1, No 3-4, pp. 376-392, 2006.
11. Z. Peric, J. Nikolic, **D. Pokrajac**, "Construction of Optimal Scalar Quantizers for Laplacian Source," *International Scientific Journal of Computing*, Vol. 5, No.2, pp. 50-54, 2006.
12. Z. Peric, J. Nikolic, **D. Pokrajac**, "Hybrid Scalar Quantizer for the Laplacian Source," *WSEAS Transactions on Communications*, Vol. 6, No 1, pp. 60-65, 2007.
13. Z. Peric, **J. Nikolic**, D. Pokrajac, "Estimation of the support region for Laplacian source scalar quantizers," *Journal of Electrical Engineering*, Vol. 58, No 1, pp. 47-51, 2007.
14. V. Megalooikonomou, D. Kontos, **D. Pokrajac**, A. Lazarevic, Z. Obradovic, "An Adaptive Partitioning Approach for Mining Discriminant Regions in 3D Image Data," *Journal of Intelligent Information Systems*, Vol. 31, No 3, pp. 217-242, 2008.
15. V. Aleksandrovic, M. Milovanovic, **D. Pokrajac**, „Towards Serbian National Sound Archives-Information System for Storage, Access and Retrieval of Restored Sound Recordings," *Review of the National Center for Digitization*, Vol. 13, pp. 41-48, 2008.

16. D. Milovic, M. Stefanovic, **D. Pokrajac**, "Stochastic approach for output SINR computation at SC diversity systems with correlated Nakagami- $m$  fading," *European Transactions on Telecommunications*, Vol. 20, pp. 1-5, 2009.
17. M. A. Reiter, M. Saintil, Z. Yang, **D. Pokrajac**, "Derivation of a GIS-Based Watershed-Scale Conceptual Model for the St. Jones River, Delaware from Habitat-Scale Conceptual Models," *J. Environ. Manag.*, Vol. 90, No.11, pp. 3253-3265, 2009.
18. T. Vance, **D. Pokrajac**, A. Lazarevic, A. Marcano, Y. Markushin, S. McDaniel and N. Melikechi, "Classification of LIBS Protein Spectra Using Multilayer Perceptrons," *Transactions on Mass-Data Analysis of Images and Signals*, Vol. 2, pp 96-111, 2010.
19. **D. Pokrajac**, A. Maidment, P. Bakic, "Optimized Generation of High Resolution Breast Anthropomorphic Software Phantoms," *Medical Physics*, Vol. 39, pp. 2290-3002, 2012.
20. M. Petkovic, **D. Pokrajac**, L. Latecki, "Spherical coverage verification," *Applied Mathematics and Computation*, Vol. 218, No. 19, pp. 9699-9715, 2012.

### CONFERENCE PAPERS

#### 1993-1998

21. **Dragoljub Pokrajac**, Mihajlo Stefanovich, Nebojsa Zlatkovich, Zorica Nikolich, "Jitter influence on error probability at digital signal transmission," *Proc. 1th Telecommunication Forum (TELFOR 93)*, Belgrade, November 1993.(in Serbian)
22. **Dragoljub Pokrajac**, Zorica Nikolich, "A new quadrature formula for probability error evaluation," *Proc. XXXVIII Conference for Electronics, Telecommunication, Computers, Automatisation and Nuclear Technology ETRAN*, Nis, June 1994.
23. Zorica Nikolich, **Dragoljub Pokrajac**, "Upper probability bound evaluation at bipolar signal transmission in the presence of jitter," *Proc. XXXVIII Conference for Electronics, Telecommunication, Computers, Automatisation and Nuclear Technology ETRAN*, Nis, June 1994. (in Serbian)
24. Zorica Nikolich, **Dragoljub Pokrajac**, " Switch-device pulse response influence to the PAM signal transmitted energy,"*Proc. 2nd Telecommunication Forum (TELFOR 94)*, Belgrade, November 1994.(in Serbian)
25. **Dragoljub Pokrajac**, Zorica Nikolich, "Random-phase sinusoidal jamming influence to the DS-SS system performances," *Proc. XXXIX Conference for Electronics, Telecommunication, Computers, Automatisation and Nuclear Technology ETRAN*, Zlatibor, june 1995. (in Serbian)
26. Zorica Nikolich, **Dragoljub Pokrajac**, "Noise influence to the DS-SS linear microcellular mobile communication system behavior," *Proc. XXXIX Conference for Electronics, Telecommunication, Computers, Automatisation and Nuclear Technology ETRAN*, Zlatibor, June 1995. (in Serbian)
27. Savo Glisich, Zorica Nikolich, **Dragoljub Pokrajac**, "ASK signal influence rejection in DS spread spectrum system," *Proc. 2nd Conference Telecommunication in Satellite and Cable Services (TELSIKS'95)*, Nis, October 1995.
28. Bojan Lekovich, **Dragoljub Pokrajac**, Zorica Nikolich, "Traffic control smart system," *Proc. 2nd Conference Telecommunication in Satellite and Cable Services (TELSIKS'95)*, Nis, October 1995. (In Serbian)

29. Zorica Nikolic, **Dragoljub Pokrajac**, "The joint influence of both a sinusoidal jammer with a random phase and fading on the DSSS system performances," *Proc. 3rd Telecommunication Forum (TELFOR 95)*, Belgrade, December 1995.(in Serbian)
30. Savo Glisic, Zorica Nikolic, **Dragoljub Pokrajac**, "Optimal DS-SS signal filtering in the presence of additive noise and interference," *Proc. 3rd Telecommunication Forum (TELFOR 95)*, Belgrade, December 1995.(in Serbian)
31. **Dragoljub Pokrajac**, Zorica Nikolic, Bojan Dimitrijevic, "Programme implementation of Kurt Metzger's algorithm to the performance evaluation of bipolar transmission in the presence of intersymbol interference," *The First Symposium ITP'95, Novi Sad*, September 95. (in Serbian)
32. Zorica Nikolich, **Dragoljub Pokrajac**, "Chip pulse shape optimal choice in DS/CDMA systems with BPSK modulation scheme," *Proc. 8th International Symposium on Theoretical Electrical Engineering (ISTET 95)*, Thessaloniki 1995.
33. Zorica Nikolic, **Dragoljub Pokrajac**, Bojan Dimitrijevic, "A new approach to the evaluation of error probability in the presence of sinusoidal disturbance," *The First symposium ITP'95, Novi Sad*, September 95.
34. **Dragoljub Pokrajac**, "Applicative software utilisation on numerical calculi," *The First symposium IT'96, Zabljak*, March 1996. (in Serbian)
35. Miroslava A. Milosevic, **Dragoljub M. Pokrajac**, Dejan G. Ciric, Vladan V. Vuckovic, "The speech intelligibility of speech extracted by adaptive filtering from the complex noisy signal," *Proc. XL Conference for Electronics, Telecommunication, Computers, Automatisatation and Nuclear Technology ETRAN*, Budva, June 1996. (in Serbian)
36. Savo Glisic, Zorica Nikolic, **Dragoljub Pokrajac**, Nenad Milosevic, "Optimal DS-SS Signal filtering in the presence of additive noise and PSK interference," *Proc. XL Conference for Electronics, Telecommunication, Computers, Automatisatation and Nuclear Technology ETRAN*, Budva, June 1996. (in Serbian)
37. Ivan Miletic, **Dragoljub Pokrajac**, Zorica Nikolic, "Fading and shadowing influence on error probability at DS/CDMA systems," *Proc. 4th Telecommunication Forum (TELFOR 96)*, Belgrade, November 1996.(in Serbian)
38. **Dragoljub Pokrajac**, Vladan Vuckovic, "PC Based Telephone Voice Automata Realization With a Noise Suppression Method Description," *Proc. 4th Telecommunication Forum (TELFOR 96)*, Belgrade, November 1996.(in Serbian)
39. Zorica Nikolic, Savo Glisic, **Dragoljub Pokrajac**, Ivan Miletic, "Performance of DS-SS/QPSK receiver with time notching in the presence of additive noise and PSK interference," *Proc. XLI Conference for Electronics, Telecommunication, Computers, Automatisatation and Nuclear Technology ETRAN*, Zlatibor, 1997. (in Serbian)
40. **Dragoljub Pokrajac**, Zorica Nikolic, "ASK and PSK interference rejection using complex block LMS algorithm", *Proc. 5th Telecommunication Forum (TELFOR 97)*, Belgrade, November 1997.(in Serbian)
41. Zorica Nikolic, **Dragoljub Pokrajac**, Ivan Miletic, "Multiple PSK Interference Suppression in DS-SS/QPSK Signal", *Proc. 9th International Symposium on Theoretical Electrical Engineering (ISTET 97)*, Palermo, June 1997.

42. Zorica Nikolic, Ivan Miletic, **Dragoljub Pokrajac**, "Performance of Orthogonal Multi-carrier DS/CDMA in Non-fading and Frequency Nonslective Fading Channels," *Proc. 9th International Symposium on Theoretical Electrical Engineering (ISTET 97)*, Palermo, June 1997.
43. I. Miletic, **D. Pokrajac**, A. Stamenkovic, Z. Nikolic, "Error Probability for Orthogonal Multi-Carrier DS/CDMA in Frequency Nonslective Fading Channels," *Proc. 3rd International TELSIKS Symposium*, Nis 1997.
44. N. Stojanovic, **D. Pokrajac**, "Quantization Noise at Non-Uniform Linear Delta Modulation," *Proc. 3rd International TELSIKS Symposium*, Nis 1997.
45. Z. Nikolic, **D. Pokrajac**, N. Milosevic, "Narrowband Interference Rejection in DS-SS/QPSK Systems Using Complex Block LMS Algorithm," *Proc. CSDSP '98*, Sheffield, England, pp. 383-386, 1998.
46. **D. Pokrajac**, N. Milosevic, Z. Nikolic, "Correlation Matrix Eigenvalue Behaviour In Narrowband Interference Supression at DS-SS/QPSK Transmission," *Proc. Conference on Communications '98*, Bucharest, Romania, pp. 331-336, 1998.
47. T. Fiez, Z. Obradovic, R. Drossu, S. Vucetic, A. Lazarevic, **D. Pokrajac**, "Use of Terrain Analysis in Yield Map Interpretation," *Proc. 1st International Conference on Geospatial Information in Agriculture and Forestry*, Orlando, FL, 5/31-6/3/1998.

#### 1999

48. **D. Pokrajac**, A. Lazarevic, S. Vucetic, T. Fiez, Z. Obradovic, "Image Processing in Precision Agriculture," *Proc. TELSIKS'99*, pp. 616-619, 1999.
49. **D. Pokrajac**, T. Fiez, D. Obradovic, S. Kwek, Z. Obradovic, "Distribution Comparison for Site-Specific Regression Modeling in Agriculture," *Proc. International Joint Conference on Neural Networks*, 1999.

#### 2000

50. Lazarevic, **D. Pokrajac**, Z. Obradovic, "An E-commerce System for Mining Distributed Spatial Databases," *Proc. SSGRR'2000, International Conference on Advances in Infrastructure for Electronic Business, Science, and Education on the Internet*, Italy, 2000.
51. Lazarevic, **D. Pokrajac**, Z. Obradovic, "Distributed Clustering and Local Regression for Knowledge Discovery in Multiple Spatial Databases," *Proc. European Symposium on Artificial Neural Networks*, 2000.
52. **D. Pokrajac**, T. Fiez, Z. Obradovic, "A Tool for Controlled Knowledge Discovery in Spatial Domains," *Proc. 14th European Simulation Multiconference (ESM)*, 2000.
53. **D. Pokrajac**, Z. Obradovic, T. Fiez, "Understanding the Influence of Noise, Sampling Density and Data Distribution on Spatial Prediction Quality through the Use of Simulated Data," *Proc. 14th European Simulation Multiconference (ESM)*, 2000.
54. **D. Pokrajac**, Z. Obradovic, "Learning Heterogeneous Functions from Small and Non-Uniform Samples," *Proc. International Joint Conference on Neural Networks*, 2000.
55. **D. Pokrajac**, Z. Obradovic, "Combining Regressive and Auto-Regressive Models for Spatial-Temporal Prediction," *ICML Workshop*, 2000.

#### 2001



56. A. Lazarevic, **D.Pokrajac**, V. Megalooikonomou, Z.Obradovic, "Distinguishing Among 3-D Distributions for Brain Image Data Classification," *Proc. 4<sup>th</sup> International Conference on Neural Networks and Expert Systems in Medicine & Healthcare, NNESMED*, Milos Island, 2001.
57. **D.Pokrajac**, Z. Obradovic, "Neural Network-Based Software for Fertilizer Optimization in Precision Farming," *Proc. International Joint Conference on Neural Networks*, Vol. 3, pp. 2110-2115, 2001.
58. **D. Pokrajac**, Z. Obradovic, "A Neural Network-Based Method for Site-Specific Fertilization Recommendation," *ASAE Annual Meeting*, paper # 01-3111, 2001.
59. **D. Pokrajac**, Z. Obradovic, "Improved Spatial-Temporal Forecasting through Modeling of Spatial Residuals in Recent History," *First SIAM International Conference on Data Mining*, 2001.

#### 2002

60. V. Megalooikonomou, **D.Pokrajac**, A. Lazarevic, Z.Obradovic, "Effective Classification of 3D Image Data using Partitioning Methods," *SPIE Visualization and Data Analysis Conference*, 2002.
61. R. Hoskinson, **D.Pokrajac**, Z.Obradovic, A. Lazarevic, "The Unpredictability of Soil Fertility across Space and Time," *6<sup>th</sup> International Conference on Precision Agriculture, Minneapolis, MN*, 2002.
62. **D.Pokrajac**, R. Hoskinson, A. Lazarevic, Z.Obradovic, "Spatial-Temporal Techniques for Prediction and Compression of Soil Fertility Data," *6<sup>th</sup> International Conference on Precision Agriculture, Minneapolis, MN*, 2002.
63. **D.Pokrajac**, "Spatial-Temporal Data Mining on Data with Short Observation History," *IPAM Mathematical Challenges in Scientific Data Mining Workshop*, 2002.

#### 2003

64. **D. Pokrajac**, K. Amoako, H. Patel, J. Brooks, N. Cenat, K. Marcus, S. Darden, "Data Mining in Geosciences," *Proc. 6<sup>th</sup> IEEE International TELSIKS Conference, Nis, 2003, vol. 2, pp. 534-537*.
65. **D. Pokrajac**, J. Milutinovich, D. Jankovic, "On Hypothesis Testing in Multidimensional Outlier Detection," *Proc. 6<sup>th</sup> IEEE International TELSIKS Conference, Nis, 2003, vol. 2, pp. 530-533*.
66. D. Pokrajac, L.J. Latecki, "Spatiotemporal blocks-based moving objects identification and tracking," *Proc. VS-PETS, 2013*.
67. V. Megalooikonomou, D. Kontos, **D. Pokrajac**, A. Lazarevic, Z. Obradovic, O. Boyko, A. Saykin, J. Ford, F. Makedon, "Partitioning Methods: Application to Alzheimer Disease and Brain Activation Patterns," *OHBM'03 (Organization for Human Brain Mapping)*, 2003.

#### 2004

68. **D.Pokrajac**, A.Lazarevic, T.Singleton, Z.Obradovic, "Localized Neural Network Based Distributional Learning for Knowledge Discovery in Protein Databases," *Proc. International Joint Conference on Neural Networks*, 2004.
69. **D.Pokrajac**, L. J. Latecki, R. Mieziako, "Evaluating Reliability of Motion Features in Surveillance Videos," *NIST Performance Metrics for Intelligent Systems Workshop (PerMIS '04)*, 2004.
70. L. J. Latecki, R. Mieziako, **D.Pokrajac**, "Motion Detection Based on Local Variation of Spatiotemporal Texture," *OTCBVS04*, 2004.
71. **D.Pokrajac**, L. J. Latecki, "Entropy-Based Approach for Detecting Feature Reliability," *48<sup>th</sup> ETRAN*, 2004, *invited paper*.

72. **D.Pokrajac**, H.Patel, M.Rasamny, "Inheritance Constraints Implementation in PostgreSQL," *48<sup>th</sup> ETRAN*, 2004.
73. H.Patel, F.Hudnall, N.Cenat, T.King, M.Rasamny, **D.Pokrajac**, "Interactive Virtual Expert System for Advising (InVESTa)," *ADMI'04*, 2004.
74. D. Kontos, V. Megalooikonomou, **D.Pokrajac**, A. Lazarevic, Z. Obradovic, O. B. Boyko, J. Ford, F. Makedon, A. J. Saykin, "Extraction of Discriminative Functional MRI Activation Patterns and an Application to Alzheimer's Disease," *MICCAI*, 2004.
75. **D. Pokrajac**, A. Lazarevic, "Applications of Unsupervised Neural Networks in Data Mining," *Proc. NEUREL 2004*.

## 2005

76. Z. Peric, J. Nikolic, **D. Pokrajac**, "Analysis of Support region for Laplacian Source's Scalar Quantizers," *Proc. TELSIKS 2005*.
77. L. J. Latecki, R. Mieziako, **D.Pokrajac**, "Tracking Motion Objects in Infrared Videos," in *Proc. AVSS 2005*.
78. **D. Pokrajac**, V. Zeljkovic, L.J. Latecki, "Spatial-Temporal Algorithm for Moving Objects Detection in Infra Red Video Sequences," *In Proc. TELSIKS 2005*.
79. V. Zeljkovic, **D. Pokrajac**, "Improved Illumination Independent Moving Object Detection Algorithm in Infrared Video Sequences," *In Proc. ICEST 2005*.
80. L. J. Latecki, R. Mieziako, **D.Pokrajac**, "Activity and Motion Detection Based on Measuring Texture Change," 5th Industrial Conference on Data Mining ICDM'2005, Leipzig, 2005.
81. V. Zeljkovic, **D. Pokrajac**, L. J. Latecki "Noise-Robust Spatial-Temporal Algorithm for Moving Object Detection," *In Proc. 49th ETRAN*, 2005.
82. **D. Pokrajac**, V. Zeljkovic, L. J. Latecki, "Noise-Resilient Detection of Moving Objects Based on Spatial-Temporal Blocks," *In Proc. 47<sup>th</sup> International Symposium ELMAR-2005 focused on Multimedia Systems and Applications*, 2005.
83. V. Zeljkovic, **D. Pokrajac**, A. Dorado, and E. Izquierdo, "Application of the Improved Illumination Independent Moving Object Detection Algorithm on the Real Video Sequence," *In Proc. 6<sup>th</sup> International Workshop on Image Analysis for Multimedia Interactive Services, WIAMIS 2005*.
84. L. J. Latecki, R. Mieziako, **D.Pokrajac**, "Instantaneous Reliability Assessment of Motion Features in Surveillance Videos Presentation," *IS&T/SPIE Symposium on Electronic Imaging*, 2005.

## 2006

85. V. Zeljkovic, **D. Pokrajac**, "Motion Detection Based Multimedia Supported Intelligent Video Surveillance System," *In Proc. 48<sup>th</sup> International Symposium ELMAR-2006*.
86. N. Robinson, **D. Pokrajac**, M. Harrington, K. Patel, "Analysis of Mollusk Brain Signals Recorded by a Multi-Electrode Array," *In Proc. 50th ETRAN*, 2006.
87. V. Zeljkovic, **D. Pokrajac**, "Improved Spatial-Temporal Moving Object Detection Method Resistant to Noise," *In Proc. ICEST 2006*.

88. **D. Pokrajac**, M. Rasamny, "Interactive Virtual Expert System for Advising," *Proc. 36<sup>th</sup> ASEE/IEEE Frontiers in Education Conference*, 2006.
89. **D. Pokrajac**, A. Lazarevic, J. Nikolic, "Applications of Neural Networks in Network Intrusion Detection," *Proc. NEUREL 2006*.
90. Z. Peric, J. Nikolic, **D. Pokrajac**, "Optimal Designing Scalar Quantizers using a Hybrid Quantization Method for the Laplacian Source," *Proc. WSEAS 2006*.

### 2007

91. **D. Pokrajac**, A. Lazarevic, L.J. Latecki, "Incremental Local Outlier Detection for Data Streams," *Proc. IEEE Symposium on Computational Intelligence and Data Mining*, 2007.
92. Z. Peric, J. Nikolic, **D. Pokrajac**, "Average Complexity Analysis of Scalar Quantizer Design," *Proc. WSEAS 2007*.
93. **D. Pokrajac**, N. Reljin, M. Reiter, S. Stotts, R. Scarborough, "Signal Processing of St. Jones River, Delaware Water Level Data," *Proc. ETRAN 2007*.
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95. **D. Pokrajac**, N. Reljin, M. Reiter, S. Stotts, R. Scarborough, J. Nikolic, "Adaptive Filters for Water Level Data Processing," *Proc. TELSIKS 2007*.
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97. **D. Pokrajac**, J. Milutinovic, I. Ikanem, "Application of Electrostatic Method for Uniform Placement of Points on Hypersphere," *Proc. PES 2007*.

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103. R. Mieziako, **D. Pokrajac**, "Localization of Detected Objects in Multi-Camera Network," *Proc. ICIP 2008*.
104. N. Reljin, **D. Pokrajac**, "The Application of Support Vector Machines for Classification of Audio Signals," *Proc. ICEST 2008*.
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### 2009

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### 2010

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116. **Dragoljub Pokrajac**, Janko Milutinovic, Marko Petkovic, Keith Offen, "Genetic Algorithms and Sequential Quadratic Programming for Uniform Placement of Points on Hypersphere, " *Proc. SAUM 2010*.

### 2011

117. T. Ferretti, **D. Pokrajac**, D. Strbac, "Descriptors of Topographical Depressions: A Dimension Reducing Approach, " *Proc. TELSIKS 2011*, pp. 559-562.

### 2012

118. F. Contijoch, J. M. Lynch, **D. Pokrajac**, A. D. Maidment, P. Bakic, "Shape Analysis of Simulated Breast Anatomical Structures, " *Proc. SPIE 2012 Medical Imaging, Proc. of SPIE 8313, 83134J-1-83134J-12*.

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120. F. Chen, **D. Pokrajac**, F. Liu, A. D. Maidment, P. Bakic, "Partial Volume Effect Simulation in Software Breast Phantoms," *Proc. SPIE 2012 Medical Imaging*, Proc. of SPIE 8313, 83134U-1–83134U-9.
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122. F. Chen, **D. Pokrajac**, X. Shi, F. Liu, A. D. Maidment, P. Bakic, "Simulation of Three Materials Partial Volume Averaging in a Software Breast Phantom," *Proc. Breast Imaging (IWDM), Lecture Notes in Computer Science 7361*, pp. 151-158, 2012.

### 2013

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125. A. Hobbs, K. Stephenson, T. Ferretti, M. Ferretti, F. Boukari, **D. D. Pokrajac**, "Creation of database for detection of unusual behavior in surveillance videos," *Proc. TELSIKS 2013*.
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### 2014

127. C. K. Abbey, P. R. Bakic, **D. D. Pokrajac**, A. D. A. Maidment, M. P. Eckstein, J.M. Boone, "Non-Gaussian statistical properties of virtual breast phantoms," *Proc. SPIE 2014 Medical Imaging*, in press.
128. V. G. Shankla, D. D. Pokrajac, S. P. Weinstein, E. F. Conant M.D., A. D. A. Maidment, P. R. Bakic, "Automatic insertion of simulated microcalcification clusters in a software breast phantom," *Proc. SPIE 2014 Medical Imaging*, in press.
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130. T. Nuzhnaya, A. Skoura, G. Cardenosa, V. Megalooikonomou, D. Kontos, **D. Pokrajac**, P. Bakic, A. Maidment, "Correlation between topological descriptors of the breast ductal network extracted from clinical galactograms and texture features of corresponding mammograms," *Proc. IWDM 2014*, in press.

### BOOK:

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**BOOK CHAPTERS:**

132. L. J. Latecki, R. Mieziako, **D. Pokrajac**, S. Gao, "Selective Hypothesis Tracking in Surveillance Videos," book chapter in *Advances in Applied and Computational Mathematics*, Nova Science Publishers, 2006.
133. **D. Pokrajac**, "Autobiography," book chapter in *Autobiographies—Live Broadcast, From Slobodan Jovanovic till today* (Dragoslav Simic, ed.), DP, Beograd, 2006 (In Serbian).
134. A. Marcano, **D. Pokrajac**, A. Lazarevic, M. Smith, Y. Markushin and N. Melikechi, "Statistical Analysis for Automatic Identification of Ovarian Cancer Protein-Biomarkers Based on Fast Fourier Transform Infrared Spectroscopy," in: *Fourier Transforms—New Analytical Approaches and FTIR Strategies, Practical skills*, Edited by Prof. Goran Nikolic, ISBN 978-953-308-207-3, 2011.
135. N. Reljin, **D. Pokrajac**, and M. Reiter, "Adaptive filters for processing water level data," in: *Adaptive Filtering*, ISBN: 978-953-307-158-9, 2011.

**TECHNICAL REPORTS:**

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138. **D. Pokrajac**, M. Rasamny, *Functionality And Design Aspects Of Interactive Virtual Expert System For Advising (INVESTA)*, Technical Report TR-CIS4001, Delaware State University, 2004.

**TEACHING EXPERIENCE**

Temple University	2002	Summer I	CS-331 Database Management Systems
Delaware State University	2002	Fall	35-107 Survey of Computer Science 35-470 Database Management Systems 35-478 Operational Research
	2003	Spring	35-107 Survey of Computer Science 35-301 Bioinformatics 35-310 Data mining 35-474 Computer networks
		Fall	35-430 Artificial Intelligence 35-470 Database Management Systems 35-478 Operational Research
	2004	Spring	35-371 Advanced Databases 35-474 Computer networks
		Fall	35-470 Database Management Systems
	2005	Spring	35-301 Bioinformatics
		Fall	35-470 Database Management Systems
	2006	Spring	35-371 Advanced Databases
		Fall	20-370 Database Management Systems <b>25-504 Modern Geometry<sup>1</sup></b>
	2007	Spring	35-301 Bioinformatics 20-400 Data Mining and Warehousing

<sup>1</sup> Bold titles indicate graduate courses

	Fall	20-370 Database Management Systems <b>60-889-02 Topics in Applied Mathematics (Pattern Recognition)</b>
2008	Spring	20-400 Data Mining and Warehousing <b>60-889-02 Topics in Applied Mathematics (Advanced Statistics)</b>
	Fall	20-370 Database Management Systems <b>60-889-02 Topics in Applied Mathematics (Computer Vision)</b>
2009	Spring	20-400 Data Mining and Warehousing
	Fall	20-370 Database Management Systems
2010	Spring	35-430 Artificial Intelligence 20-400 Data Mining and Warehousing 35-437 Genetic algorithms
	Fall	CSCI-310 Analysis of Algorithms
2011	Spring	<b>MTSC-887 Image Processing</b> CSCI-497 Topics in Computer Science (Homeland Security)
2012	Spring	CSCI-220 Discrete Structures <b>CSCI-570 Computer Vision</b>
	Fall	CSCI-310 Analysis of Algorithms
2013	Spring	CSCI-370 Database Management Systems CSCI-220 Discrete Structures CSCI-461 Theory of Computing
	Fall	<b>CSCI-501 Algorithmics</b>
2014	Spring	CSCI-370 Database Management Systems CSCI-461 Theory of Computing INFO-400 Data Mining and Warehousing

## VISITING SCIENTISTS SUPERVISION

Dr. Daniela Milovic; Dr. Marko Petkovic.

## GRADUATE STUDENTS RESEARCH

### Graduate committee chair

**PhD:** (2) Natasa Reljin; Tia L. Vance (Delaware State University).

**MS:** (6) Katherine Elisabeth Offen-Nelson; Keith Offen; Tia Vance; Sue Gao; Imabong Ekanem; and Jackson Seaton (Delaware State University).

### Graduate committee member

**PhD: (8)** Chao Yu; Shugao Xi; Feiyu Chen; (Delaware State University); Roland Mieziako (Temple University); Qi Li; Raied Salman; Robert Strack; Erik Test (Virginia Commonwealth University).  
**MS: (10)** Franz Delima; Max Saintil; Maurice Smith, Alexey Chibisov (Physics); Sami Atif; Tiara Turner; Yuhong Liu (Applied mathematics); Parth Patel (Computer sciences); Stephanie Stotts; Bellamy Reynolds; (Agriculture/Natural Resources) (all from Delaware State University).

### **Graduate students advisor/supervisor**

**Current: (2 students);** Shilpa Raval; Andrew Hobbs; (Delaware State University).

**Past: (14 students);** Katherine Elisabeth Offen-Nelson; Natasa Reljin; Keith Offen; Tia Vance; Sue Gao; Imabong Ekanem; Jackson Seaton; Nebojsa Pejic; Fatima Boukhari; Thomas Ferretti; Molly Ferretti; Feiyu Chen; (Delaware State University); Francisco Contijoch, Jennifer Lynch (University of Pennsylvania).

### **UNDERGRADUATE STUDENTS RESEARCH**

Collaborate with The Greater Philadelphia Region Alliance for Minority Participation, CREOSA, HBCU-up programs, on introducing minority students in research activities.

Students coauthored 10 conference papers, 22 presentations and posters.

### **Students supervised:**

Kagya Amoako; Hetal Patel; Josette Brooks; Naomie Cenat; Kevin Marcus; Seth Darden; Frank Hudnall; Trafmore King; La'Tarsha Reid; Kim Lofland; Kenna Jackson; Monica Key; DeShanta Maloney; Samantha McDaniel; Mikia La Rue; Ludovic Agodio; Samantha McDaniel; Trevor Newell; Andrew Hobbs; Adam Johnson; Stephanie Nieves; Allegra Cooper; Khalid Stephenson; David Pickering; Russell Walker (Delaware State University); Omar Melikechi (Dartmouth College); Deon Wilkins (Bethune-Cookman University); David Breese (Pomona College); Chen Ling (University of Rochester); Jesse McDaniel (University of Pittsburgh), Esteban Dávila; Stephanie Rodriguez (University of Puerto Rico).

### **GRADUATE PROGRAM DEVELOPMENT**

- Creation of multidisciplinary PhD Program in Applied Mathematics and Theoretical Physics.
- Creation of Masters Program in Computer Science.
- Creation of PhD Program in Computer Science.

### **ADMINISTRATIVE EXPERIENCE**

- Administer Department of Defense Grant, 2008-2012.
- Administer several research efforts in VIP Mobile, Inc, 2008-2010.
- Administer Video Surveillance lab, 2006-present.



Supervise 10+ people in Department of Transportation funded grant, 2008-2009.

Acting Chair: CIS Department, 2009.

Acting Chair: Department of Applied Mathematics and Theoretical Physics, 2005-7.

Acting Director: Applied Mathematics Research Center, 2005-6.

## **SERVICE**

Chair: Search Committee for Faculty Position in CIS department, 2010, 2012.

Chair: CIS Department Personnel committee.

Co-chair: CMNST College Integration Committee, 2010-present.

Member: DSU Promotion and Tenure Committee, 2010-present.

Member: DSU Ad-hoc Committee for Revision of Promotion and Tenure Procedure, 2011-2013.

Alternate member: DSU International Education Subcommittee, 2011-present.

Member: Search Committee for Faculty Position in Biotechnology, 2005.

Member: Search Committee for Faculty Position in Applied Mathematics and Theoretical Physics, 2005,6.

Member: Search Committee for Faculty Position in Physics, 2007, 2008.

Member: CMNST College Strategic Planning Committee, 2006.

Member: CMNST College Curriculum Committee, 2007.

Member: Search Committee for Faculty Position in Bioinformatics, 2010.

Member: DSU faculty senate, 2003/4, 2010/present.

## **SCHOLARLY ACTIVITIES**

### **Collaborative efforts:**

Initiate collaboration with University of Nis, University of Belgrade and University of Novi Sad, Serbia and organize trip of University President, College Dean and VP for International Affairs to Serbia.

Initiate collaboration and development of joint program with High Technical School, Nis, Serbia.

Organize successful appearance of Delaware State University Jazz Combo at Nisville International Jazz Festival and served as liaison, translator, public relations officer and band manager.

Initiate collaboration with Delaware Department of Safety and Homeland Security and University of Maryland MindLab.

Work on establishing contacts and collaboration with industry (with Office of Associate Provost for Research).

Participate in founding of Applied Mathematics Research Center (AMRC) at Delaware State University.

### **Undergraduate program development:**

Participate in creation of DSU Program in Computational Biology.

Create curricula for Advanced Databases, Scientific Computing, Genetic Algorithms, Artificial Intelligence, and Machine Learning courses.

Work on computer-based academic advising with the Registrar's Office.

**Other:**

Organize and participate in Seminar for Computer Science and Math students (data mining, Matlab programming).

Organize Applied Mathematics research seminar.

Advise Students' ACM chapter and Students' Computer Science club and Students' Japanese club.

**PROFESSIONAL ASSOCIATIONS**

Member, Association for Computer Machinery (**ACM**).

Member, The Institute of Electrical and Electronics Engineers (**IEEE**).

Member, **SPIE**.

**OTHER**

Founding lifetime member of Nikola Tesla Inventors' Club, Philadelphia.

Member, NAACP, 2005-present.

Board Member, Tesla Science Foundation, 2013-present.

**HONORS AND AWARDS**

**Delaware State University Research Excellence Award, 2010.**

**Merit Award, Delaware State University, 2004-2005, 2007-12.**

**Listed in Marquis Who's Who of Emerging Leaders.**

**Listed in Marquis Who's Who in Finance and Business.**

**Listed in Marquis Who's Who in Science and Engineering.**

**Listed in Marquis Who's Who among America's Teachers.**

**Listed in Marquis Who's Who in America.**

**Travel Award, Mathematical Challenges in Scientific Data Mining Workshop, 2002.**

**Best Presentation Award, International Joint Conference on Neural Networks (IJCNN), 2001.**

**Travel Award, First SIAM International Conference on Data Mining, 2001.**

**Graduate Student Research Award, Temple University, 2001.**

**Travel Award, ISTET '97, Palermo, 1997.**

**Travel Award, ISTET '95, Thessaloniki, 1995.**

**Fellowship, Serbian Department of Science and Technology, 1994.**

**Summa Cum Laude, undergraduate studies finished one year before anticipated graduation date, 1993.**

**Scholarship, Serbian National Academy of Science and Arts, 1991-1994.**

**Third Prize, Serbian High School Students' Competition in Mathematics, 1989.**

**First Prize**, Serbian High School Students' Championship "Archimedes", 1987.

**Second Prize**, Serbian High School Students' Championship "Archimedes", 1986.

**First Prize**, on District Student Competition in Photography, 1986.

**The Best Young Mathematician in Generation**, 1985.

**Second Prize**, Serbian Middle School Students' Competition in Mathematics, 1984.

## OTHER

Work with Serbian Public Television on preservation of 2" VTR-Q Archival Tapes.

Have several TV and radio appearances including three 1-hour live broadcast shows, radio program on Nikola Tesla, an American Inventor, live broadcast reporting from Nikola Tesla Monument unveiling from Niagara Falls, ON.

Recorded folk songs for Serbian Public Radio.

Research on early recorded sound. Discover the earliest known recording of Serbian Radio Programs.

Work on digitalization and preservation of audio recordings.

## REFERENCES

### **Dr Fengshan Liu**

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### **Dr Andrew Douglas Arnold Maidment, PhD, FAAPM**

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Member, Institute of Medicine and Engineering,  
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### **Dr Myna German**

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