Professor of Computer & Information Technology (with Tenure)

Current Address: Dr. Richard S. Segall

Arkansas State University

Department of Computer & Information Technology (CIT), Neil Griffin College of Business State University, AR 72467-0130

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Education:

University of Massachusetts at Amherst, Ph.D., Operations Research, May 1984 Rensselaer Polytechnic Institute, M. S., Operations Research and Statistics, December 1975 Rensselaer Polytechnic Institute, M. S., Mathematics, May 1973 Rensselaer Polytechnic Institute, B. S., Mathematics, June 1971

Employment:

Arkansas State University, Professor of Computer & Information Technology, 2012 to Present Affiliated Faculty Appointments:

- 1.) Master of Engineering Management (MEM) Program, College of Engineering, Arkansas State University, 2008 to Present.
- 2.) Environmental Sciences Program Faculty, Arkansas State University, 2011 to Present.
- 3.) University of Arkansas at Little Rock (UALR), Department of Information Science, Affiliate Faculty, 2011 to Present.
- 4.) University of Arkansas at Little Rock (UALR) Bioinformatics Program, Affiliate Faculty, 2011 to Present

5.) Arkansas Center for Plant-Powered Production (P3), Arkansas Biosciences Institute (ABI), 2008 to 2016. Arkansas State University, Associate Professor of Computer & Information Technology, 2004-2012 Arkansas State University, Associate Professor of Decision Sciences, 2002-2004 Arkansas State University, Senior Lecturer of Information Systems, 2001-2002 Arkansas State University, Associate Professor of Management Information Systems, 1998-2001 Albany State University, Associate Professor of Management Information Systems, 1997-98 Texas Tech University, Visiting Assistant Professor, 1996-97 Georgia College & State University, Assistant Professor of Management, 1992-94 Eastern Kentucky University, Part-time faculty, Mathematics, Statistics & Computer Science, 1991 University of Louisville, Visiting Assistant Professor of Mathematics, 1990-91 University of New Hampshire, Visiting Assistant Professor of Mathematics, 1989-90

University of Massachusetts-Lowell, Assistant Professor of Mathematics, 1985-89

West Virginia University, Assistant Professor of Management, 1984-85

Bowling Green State University, Instructor of Applied Statistics & Operations Research, 1977-78

Professional Experience:

Brooks AFB, TX, National Research Council (NRC) Summer Faculty Fellowship, San Antonio, TX, Summer 2000 Brooks AFB, TX, Senior Research Fellow, San Antonio, TX, 1993-95

U.S. Army Aberdeen Proving Grounds, Aberdeen, MD, Operations Research Analyst, 1976-77

CIBA-GEIGY Corporation, Co-operative Education Program, Ardsley, NY, Summers 1970 & 1971

Courses Taught 1996-2020:

Arkansas State University 1998-Present:

- Data Base Management
- Advanced Data Base Concepts
- Advanced Data Mining (Graduate)
- Data Mining (Undergraduate and Graduate)
- Data Communications and Telecommunications for Business
- Database Concepts and Data Warehousing (Undergraduate and Graduate)
- Introduction to Management Information Systems (Undergraduate)
- Management Information Systems (Undergraduate)
- Management Information Systems (Graduate)
- Production and Operations Management (Undergraduate)

Survey of Information Systems (Graduate) [Also as a web-based on-line course] **Microcomputer** Applications

Engineering Statistics (Graduate course in Master of Engineering Management)

Quality Control & Improvement (Graduate course in Master of Engineering Management) Operations Research (Graduate course in Master of Engineering Management)

Albany State University 1997-1998:

Introduction to Business Information Systems

Database Management

Systems Analysis and Design

Production and Operations Management

Management Information Systems (Graduate)

Decision Sciences (Graduate)

Texas Tech University 1996-1997:

Introduction to Production and Operations Management

Information Systems for Managers (Graduate)

Information Technology for Managers (Graduate)

Faculty Development:

Machine Learning Using SAS Viya®, July 24-25, 2019

Deep Learning Using SAS Software, SAS World Headquarters, Cary, NC, July 23, 2019

- SAS Visual Data Mining and Machine Learning in SAS Viya®: Interactive Machine Learning, SAS World Headquarters, Cary, NC, July 12, 2018 and July 22, 2019
- SAS Visual Statistics for Professors. SAS World Headquarters, Cary, NC, July 11, 2018
- SAS Visual Analytics: Getting Started for Professors. SAS World Headquarters, Cary, NC. July 10, 2018

Manipulating Data and Analytics Using SAS University Edition. SAS World Headquarters, Cary, NC, July 9, 2018

SAS JMP Software Workshop, A-STATE, College of Business, May 3, 2016

Data Manipulation using SAS Enterprise Guide, SAS World Headquarters, Cary, NC, July 20, 2015

SAS Visual Analytics: Getting Started, SAS World Headquarters, Cary, NC, July 21, 2015

SAS Visual Statistics: Interactive Model Building, SAS World Headquarters, Cary, NC, July 22, 2015

ORACLE 11g R2 Business Intelligence: Creating Analyses and Dashboards, ASU, Jonesboro, AR, April 29-30, 2013

SAS Customer Connection for Data Mining, SAS World Headquarters, Cary, NC, June 14-15, 2011 Neural Network Modeling, SAS World Headquarters, Cary, NC, July 22-23, 2010

Applied Analytics Using SAS Enterprise Miner 6.1, SAS World Headquarters, Cary, NC, July 20-21, 2010

Issues in Linear Model Building and Data Mining, SAS World Headquarters, Cary, NC, July 23-24, 2009

Customer Segmentation with Numeric and Textual Data using SAS, SAS World Headquarters, Cary, NC, July 21-22, 2009

SAS Programming Essentials for Educators Part I, SAS World Headquarters, Cary, NC, July 20, 2009

Mining Textual Data Using SAS Text Miner for SAS9, SAS World Headquarters, Cary, NC, July 24-25, 2008

Advanced Predictive Modeling Using SAS Enterprise Miner 5, SAS World Headquarters, Cary, NC July 22-23, 2008

SAS Programming Essentials for Educators II, SAS World Headquarters, Cary, NC, July 21, 2008

Applied Analytics Using SAS Enterprise Miner 5.2, SAS World Headquarters, Cary, NC, August 7-10, 2007

SAS Programming Essentials for Educators I, SAS World Headquarters, Cary, NC, August 5-6, 2007

ORACLE Database 10g: Introduction to SQL, ORACLE University, ORACLE World Headquarters, Reston, VA, July 16-20, 2007

ORACLE Database 10g: Administrative Workshop I, ORACLE University, July 18-22, 2005

ORACLE 9i Database Administration Fundamentals I, ORACLE University, May 23-27, 2005 ORACLE 9i Database Administration Fundamentals II, ORACLE University, June 6-10, 2005 SAS Warehouse Administrator Workshop, ASU College of Business, 2003 SAS Customer Relationship Management through Data Mining Workshop, 2002 SAS Statistical Analysis and Data Mining Workshop, 2002 Business Ethics Workshop, ASU College of Business, 2001 Case Studies Writing Workshop, ASU College of Business, 2001 ORACLE Spatial Data Workshop, ASU College of Business, 2001

<u>Awards:</u>

- 1. Arkansas State University, College of Business Faculty Award for Excellence in Research (2019).
- 2. Session Best Paper Award, <u>20th World Multi-conference on Systemics, Cybernetics and</u> <u>Informatics</u> (WMSCI 2016), Orlando, FL, July 5-8, 2016 (with S. Lu).
- 3. Arkansas State University, College of Business Faculty Award for Excellence in Research (2015).
- Session Best Paper Award, <u>17th World Multi-conference on Systemics</u>, Cybernetics and <u>Informatics</u> (WMSCI 2013), Orlando, FL, July 9-12, 2013 (with S. Lu, A. Sears, J. Radish, and T. Hahn).
- 5. Poster Award, Third Place, Faculty/Staff, Computational Division, <u>NSF Bioinformatics Workshop</u> to Foster Collaborative Research, March 3-5, 2013, Little Rock, AR.(with Shen Lu, T. Hahn)
- 6. Arkansas State University College of Business Faculty Award for Excellence in External Service (2011).
- Session Best Paper Award, <u>15th World Multi-conference on Systemics</u>, Cybernetics and <u>Informatics</u> (WMSCI 2011), Orlando, FL, July 19-22, 2011 (with Shen Lu)
- Session Best Paper Award, <u>14th World Multi-conference on Systemics</u>, Cybernetics and <u>Informatics</u> (WMSCI 2010), Orlando, FL, July 2, 2010 (with Qingyu Zhang and Ryan Pierce).
- Session Best Paper Award, <u>13th World Multi-conference on Systemics</u>, Cybernetics and <u>Informatics</u> (WMSCI 2009), Orlando, FL, July 13, 2009 (with Ryan Pierce).
- 10. Session Best Paper Award, <u>12th World Multi-conference on Systemics</u>, Cybernetics and <u>Informatics</u> (WMSCI 2008), Orlando, FL, July 2, 2008 (with Qingyu Zhang).
- 11. Highly Commended Paper Award, <u>Emerald Literati Network 2007 Award for Excellence</u>, for article in <u>Kybernetes: International Journal of Systems and Cybernetics</u>, April 2007.
- 12. *Best Faculty Poster Award*, Arkansas Bioinformatics Symposium (ARBIOS), Arkansas State University, April 19, 2007 (with Qingyu Zhang).
- 12. Arkansas State University College of Business Faculty Award for Excellence in Service (2004).

Intellectual Contributions:

I. JOURNAL ARTICLES

- Howell, Michael, Kodali, Venkat, Segall, Richard, Aboudja, Hyacinthe, Berleant, Daniel, "Moore's Law and Space Exploration: New Insights and Next Steps", <u>Journal of Arkansas Academy</u> <u>of Science</u>, Vol. 73, pp. 13-17, 2019. Available at <u>https://scholarworks.uark.edu/cgi/viewcontent.cgi?article=3338&context=jaas</u>
- Blevens, Nathaniel Bryce, Segall, Richard S. and Choppari, Sharanya: "Assessing Water Quality Characteristics of pH and Biochemical Oxygen Demand (CBOD) of Public Utility using Statistical Quality Control (SQC)", <u>Journal of Systemics</u>, <u>Cybernetics and Informatics</u> (JSCI), Vol.17, No.3, 2019, pp. 62–70.
- 3. Segall, Richard S., Cook, Jeffrey S. and Niu, Gao; Overview of Big Data-Intensive Storage and its Technologies for Cloud and Fog Computing. <u>International Journal of Fog Computing</u> (IJFC), Vol. 2, No. 1, 2019, pp 74-113.
- Kodali, V., Duggurala, R., Segall, R., Aboudja, A., and Berleant, D.; Travel to extraterrestrial bodies over time: some exploratory analyses of mission data. <u>Journal of Arkansas Academy of</u> <u>Science</u>, Vol. 72, pp. 58-66, 2018. Available at <u>https://scholarworks.uark.edu/jaas/vol72/iss1/13/</u>

- 5. Segall, Richard S. and Niu, Gao; Overview of Big Data and Its Visualizations for Fog Computing, <u>International Journal of Fog Computing</u> (IJFC), Vol. 1, No.2, 2018, pp. 51–82.
- Akarapu, V., Gunkala, S.; Pattigadapa, S.; Pattigadappa, BK; Ponnapalli, S. and Segall, RS; Statistical Quality Control and Improvement of Waste Water Treatment Plant, <u>Journal of Systemics</u>, <u>Cybernetics and Informatics</u> (JSCI), Vol. 14, No. 6, 2016, pp. 47-51.
- Lu, Shen and Segall, Richard S., "Combination of Bayesian and Latent Semantic Analysis with Domain Specific Knowledge", <u>Journal of Systemics</u>, <u>Cybernetics and Informatics</u> (JSCI), v. 14, No. 3, 2016, pp.43-50.
- Pippinger, Nickolas; Segall, Richard S; Berleant, Daniel; Eversole, Kellye A; Mustell, Robert A; Vicuna-Requesens, Deborah; and Hood, Elizabeth E, "Extracting Numerical Information about Corn Composition from Texts", <u>Journal of Systemics, Cybernetics and Informatics</u> (JSCI), v.13, n.5, 2015, pp. 68-75.
- Lu, Shen, Sears, Alfred; Radish, Joseph, Segall, Richard S. and Hahn, Thomas F., "Discovery of Strong Association Rules for Attributes from Data for Program of All-Inclusive Care for the Elderly, <u>Journal of Systemics, Cybernetics and Informatics</u>, Vol. 12, No. 1, 2014, pp. 21–26.
- 10. Segall, Richard S., "Computational Dimensionalities of Global Supercomputing, Invited paper in <u>Journal of Systemics, Cybernetics and Informatics</u> (JSCI), Vol. 11, No. 9, 2013, pp. 75-86.
- Lu, Shen and Segall, Richard S., "Multi-SOM: an Algorithm for High-Dimensional Small Size Datasets, <u>Journal of Systemics, Cybernetics and Informatics</u> (JSCI), Vol. 11, No. 2, 2013, pp. 41-46.
- Lu, Shen and Segall, Richard S., "Linkage in Medical Records and Bioinformatics Data", <u>International Journal of Information and Decision Sciences</u> (IJIDS), Vol. 5, No. 2, 2013, pp. 169–187.
- 13. Lu, Shen and Segall, Richard S., "Statistical Quality Control of Microarray Gene Expression Data," Journal of Systems, Cybernetics and Informatics (JSCI), Vol.9, No. 7, 2011, pp. 63-68.
- Segall, Richard S., Zhang, Qingyu, and Pierce, Ryan, "Data Mining Supercomputing with SAS JMP[®] Genomics", <u>Journal of Systemics, Cybernetics and Informatics</u> (JSCI), Vol. 9, No. 1, 2011, pp.28-33.
- Zhang, Qingyu and Segall, Richard S., "Review of Data, Text and Web Mining Software," <u>Kybernetes: International Journal of Cybernetics, Systems and Management Sciences</u>, Vol. 39, Number 4, 2010, pp. 625-655.
- 16. Segall, Richard S. and Pierce, Ryan M., "Advanced Data Mining of Leukemia Cell Micro-Arrays", Journal of Systemics, Cybernetics and Informatics (JSCI), Volume 7, Number 6, 2009, pp.60-66.
- Segall, Richard S. and Zhang, Qingyu, "Web Mining Technologies for Customer and Marketing Surveys", <u>Kybernetes: The International Journal of Cybernetics</u>, Systems and Management <u>Sciences</u>, Vol. 38, Number 6, 2009, pp. 929–953.
- Segall, Richard S. and Zhang, Qingyu, "Web Mining of Hotel Customer Survey Data", Journal of Systemics, Cybernetics and Informatics (JSCI), Vol. 6, Number 6, 2008, pp. 23-29.
- Zhang, Qingyu and Segall, Richard S., "Web mining: A survey of current research, techniques and software," <u>International Journal of Information Technology and Decision Making</u>, Volume 7, Number 4, December 2008, pp.683-720.

- Segall, Richard S., Guha, Gauri S., and Nonis, Sarath A., "Data Mining of Environmental Stress Tolerances for Plants," <u>Kybernetes: The International Journal of Cybernetics, Systems and</u> <u>Management Sciences</u>, Volume 37, Number 1, 2008, pp. 127–148.
- Segall, Richard S. and Zhang, Qingyu, "Data Visualization and Data Mining of Continuous Numerical and Discrete Nominal-Valued Microarray Databases for Bioinformatics," <u>Kybernetes: The International Journal of Systems & Cybernetics</u>, Volume 35, Number 10, 2006, pp. 1538–1566. [Manuscript accepted without revision!] *Recipient of "Highly Commended Paper" Award by Emerald Journals*
- Guha, Gauri S., Nonis, Sarath A., Baral, A., and Segall, R. S., "The Potential of Biotechnology: Promises, Perils and Perplexities – A Survey of Impacts on Relevant Economic Sectors"; <u>Journal of Academy of Economics and Economic Education</u>, Volume 6, Number 1, 2005, pp. 87–115. [Also appeared in Volume 5, Number 2, 2004, pp. 107–132.]
- Segall, Richard S., "Incorporating Data Mining and Computer Graphics for Modeling of Neural Networks"; <u>Kybernetes: The International Journal of Systems & Cybernetics</u>, Volume 33, Number 8, 2004, pp.1258–1276.
- 24. Fish, Kelly E., and Segall, Richard S., "A Visual Analysis of Learning Rule Effects and Variable Importance for Neural Networks Employed in Data Mining Operations" <u>Kybernetes:</u> <u>The International Journal of Systems & Cybernetics</u>; 2004, Volume: 33 Number 7, pp. 1127–1142.
- Nonis, Sarath A., Guha, Gauri S., and Segall, Richard, "The Impact of Consumer Attitudes about Biotechnology on Purchase Behavior Intentions: Moderating Effects of Innate Consumer Innovativeness and Anxiety" <u>Journal of Business & Economic Research</u>, Volume 2, Number 5, pp. 65–78, May 2004.
- Segall, Richard S., "Some Quantitative Methods for Determining the Capacities and Locations of Military Emergency Medical Facilities;" <u>Applied Mathematical Modelling</u>, Vol. 24, No. 5/6, May 2000, pp. 365–389.
- Jaraledi, Majid, Segall, Richard S., and Rajamohan, Venkatramani, "Multi-Class Decision Procedures for the Inspection Operation;" <u>Journal of Applied Mathematics</u> <u>and Decision Sciences</u>, Vol. 2, No. 2, 1998, pp. 159–176.
- Segall, Richard S., "Determining Optimal Capacities and Geographical Locations of Emergency Medical Facilities for Occupational Accidents" <u>Mathematical Modelling and</u> <u>Scientific Computing</u>, Vol. 7, No. 2, 1997.
- 29. Segall, Richard S., "Some Mathematical and Computer Modelling of Neural Networks;" <u>Applied Mathematical Modelling</u>, Vol. 19, No. 7, July 1995, pp. 386—399.
- Segall, Richard S., "Mathematical Modelling of Spatial Price Equilibrium for Multi-commodity Consumer Flows of Large Markets Using Variational Inequalities"; <u>Applied Mathematical Modelling</u>, Vol. 19, No. 2, February 1995, pp. 112—122.
- Jaraiedi, Majid, Segall, Richard S., and Tsai, Yuh-Horng, "Multi-Criteria Decision Procedures for the Inspection Operation;" <u>Journal of Design and Manufacturing</u>, Vol. 5 No. 1,1995, pp. 25—44.
- Copeland, Arthur H, Ringo, Chris D., Moore, Ill, Berrien, and Segall, Richard S., "Mathematical Modelling for Singular Value Decomposition Problems for Oceans;" <u>Applied Mathematical Modelling</u>, Vol. 17, No. 10, October 1993, pp. 536—546.

- 33. Segall, Richard S., "An Update on Bi-level Geometric Programming: A new optimization model;" <u>Applied Mathematical Modelling</u>, Vol. 17, No. 4, April 1993, pp. 219—222.
- Segall, Richard S., "Deterministic Mathematical Modelling for the Spatial Allocation of Multi-categorical Resources: with an Application to Real Health Data" <u>Journal of the</u> <u>Operational Research Society</u>, Vol. 43, No. 6, June 1992, pp. 579–589.
- Copeland, Arthur H., Segall, Richard S., Ringo, Chris D., and Moore, III, Berrien, "Mathematical Modelling for Inverse Problems for Oceans;" <u>Applied Mathematical Modelling</u>, Vol. 15, No. 11/12, November—December 1991, pp. 586—595.
- Jaraiedi, Majid and Segall, Richard S., "Mathematical Modelling of Dodge-Romig Sampling Plans for Random Incoming Quality;" <u>Applied Mathematical Modelling</u>, Vol. 14, No. 5, May 1990, pp. 264—270.
- Segall, Richard S., "Using Branch-and-Bound to Solve Bi-level Geometric Programming Problems: A new optimization model;" <u>Applied Mathematical Modelling</u>, Vol. 14, No. 5, May 1990, pp. 271–274.
- Segall, Richard S., "Some Deterministic and Stochastic Nonlinear Optimization Modelling for the Spatial Allocation of Multi-Categorical Resources: with an application to real health data;" <u>Applied Mathematical Modelling</u>, Vol. 13, No. 11, November 1989, pp. 641—650.
- Segall, Richard S., "Some Nonlinear Optimization Modelling for Planning Objectives of Large Market Oriented Systems: with an application to real health data", <u>Applied Mathematical</u> <u>Modelling</u>, Vol. 13, No. 4, April 1989, pp. 203—214.
- 40. Segall, Richard S. "Mathematical Modelling for the Capacity Planning of Market Oriented Systems: with an application to real health data", <u>Applied Mathematical Modelling</u>, Vol. 12, No. 4, August 1988, pp. 366—378.

II. BOOKS

- Segall, Richard S. and Niu, Gao, <u>Open Source Software for Statistical Analysis of Big Data:</u> <u>Emerging Research and Opportunities</u>, IGI Global, Hershey, PA, 2020. [237 pages] ISBN 13: 978-1-7998-2768-9 <u>https://www.igi-global.com/book/open-source-software-statistical-analysis/237841</u>
- Segall, Richard S. and Cook, Jeffrey S., <u>Handbook on Big Data Storage and Visualization Techniques</u>, IGI Global, Hershey, PA, 2018. [2 volumes, 917 pages] ISBN 13: 978-1-52-253142-5. <u>https://www.igi-global.com/book/handbook-research-big-data-storage/179829</u>

[Selected "Featured Book" of IGI Global in Computer Science & Information Technology for 2018-2019.]

- 3. Segall, Richard S., Cook, Jeffrey S. and Zhang, Qingyu, <u>Research and Applications in Global</u> <u>Supercomputing</u>, IGI Global, Hersey, PA, 2015, 672 pages, ISBN 13: 978-1-46-667461-5. <u>https://www.igi-global.com/book/research-applications-global-supercomputing/118093</u>
- Zhang, Qingyu and Segall, Richard S. and Cao, Mei, <u>Visual Analytics and Interactive Technologies:</u> <u>Data, Text and Web Mining Applications</u>, IGI Global, Hershey, PA, 2011, 350 pages, ISBN 13: 978-1-60-960102-7. <u>https://www.igi-global.com/book/visual-analytics-interactive-technologies/41910</u>

III. CHAPTERS IN BOOKS

- Segall, Richard S., What is Open Source Software (OSS) and what is Big Data? Chapter 1 of <u>Open</u> <u>Source Software for Statistical Analysis of Big Data: Emerging Research and Opportunities</u>, edited by Segall, R.S. and Niu, G., IGI Global, 2020, pp. 1–49.
- Segall, Richard S. Open Source Software (OSS) for Big Data, Chapter 2 of <u>Open Source Software</u> for Statistical Analysis of Big Data: Emerging Research and Opportunities, edited by Segall, R.S. and Niu, G., IGI Global, 2020, pp. 50–72.
- 3. Lu, Shen and Segall, Richard S., "Data Streaming Processing Window Join with Graphical Processing Units (GPUs), <u>Encyclopedia of Organizational Knowledge</u>, <u>Administration</u>, <u>and Technologies</u> (Mehdi Khosrow-Pour, Editor), to be published in 2020 with 2021 copyright by IGI Global, Hershey, PA.
- Segall, Richard S. and Niu, Gao, "Overview of Big Data and its Visualizations", Chapter 1 of <u>Handbook of Big Data Storage and Visualization Techniques</u>, vol. 1, IGI Global, Hershey, PA, 2018, pp. 1–32.
- Segall, Richard S. and Cook, Jeffrey S., "Overview of Big Data-Intensive Storage and its Technologies", Chapter 2 of <u>Handbook of Big Data Storage and Visualization Techniques</u>, vol. 1, IGI Global, Hershey, PA, 2018, pp. 33–75.
- Segall, Richard S. and Lu, Shen, "Data Linkage Discovery Applications", <u>Encyclopedia of Information Science and Technology</u> (IST), 4th edition, IGI Global, Hershey, PA, 2018, Chapter 155, pp.1783-1793. Also appears in <u>Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics</u>, (Mehdi Khosrow-Pour, Editor) Vol 1, IGI Global, Hershey, PA, 2019. Chapter 26, pp. 354-366.
- Segall, Richard S. and Neha Gupta, "Overview of Global Supercomputing," <u>Research and</u> <u>Applications in Global Supercomputing</u> edited by Segall, RS, Cook, JS and Zhang, Q<u>.</u>, IGI Global, Hersey, PA, 2015, pp. 1–32.
- Segall, Richard S. and Lu, Shen, "Information Retrieval by Linkage Discovery," <u>Encyclopedia of</u> <u>Information Science & Technology</u>, Mehdi Khosrow-Pour, Editor, IGI Global, Hersey, PA, 2015, Chapter 387, pp. 3932–3939.
- Segall, Richard S. and Lu, Shen, "Linkage Discovery with Glossaries", <u>Encyclopedia of Business</u> <u>Analytics & Optimization</u>, John Wang, Editor, IGI Global, Hersey, PA, 2014, Chapter 128, pp. 1411–1421.
- Zhang, Qingyu and Segall, Richard S., "Commercial Data Mining Software," <u>Data Mining and Knowledge Discovery Handbook</u>, second edition, Oden Maimon and Lior Rokach, Editors, Chapter 65, pp. 1245–1268, Springer-Verlag Press, 2010, ISBN: 0-38–709822-4.
- Segall, Richard S. and Zhang, Qingyu, "A Survey of Selected Software Technologies for Text Mining", <u>Software Applications: Concepts, Methodologies, Tools, and Applications</u>, Editor P. F. Tiako, Volume 2, Chapter 3.4, pp. 1164–1181, Information Science Reference, Hershey, PA, 2009, ISBN 978-1-60566-060-8. [Reprinted from <u>Handbook of Research on Text and Web</u> <u>Mining Technologies</u>, Edited by Min Song and Yi-Fang Wu, 2009.]
- Segall, Richard S. and Zhang, Qingyu, "Comparing Four-Selected Data Mining Software", <u>Software Applications: Concepts, Methodologies, Tools, and Applications</u>, Editor P.F. Tiako, Volume 3, Chapter 4.22, pp. 1750-1759, Information Science Reference, Hershey, PA, 2009, ISBN 978-1-60566-060-8. [Reprinted from <u>Handbook of Research on Text and Web Mining</u> <u>Technologies</u>, Edited by Min Song and Yi-Fang Wu, 2009.]

- Zhang, Qingyu and Segall, Richard S., "Using Data Mining for Forecasting Data Management Needs", <u>Data Warehousing and Mining: Concepts</u>, <u>Methodologies</u>, <u>Tools and Applications</u>, Editor John Wang, Chapter 4.27, pp. 2088-2104, Information Science Reference, Hershey, PA, 2009, ISBN 978-1-59904-951-9. [Reprinted from <u>Handbook of Computational Intelligence in</u> <u>Manufacturing and Production Management</u>, Edited by Purnendu Mandal and Dipak Laha, 2008.]
- Segall, Richard S. and Zhang, Qingyu, "A Survey of Selected Software Technologies for Text Mining", <u>Handbook of Research on Text and Web Mining Technologies</u>, Chapter XLIV, Editors Min Song and Yi-Fang Wu, IGI Global Publishing Inc., 2009, ISBN 978-159904990-8, pp.766-784.
- 15. Segall, Richard S. and Zhang, Qingyu, "Comparing Four-Selected Data Mining Software", <u>Encyclopedia of Data Warehousing and Mining</u>, Chapter XLV, Second Edition, Edited by John Wang, Montclair State University, USA; pp. 269–277, IGI Global Publishing Inc., 2009. ISBN 978-1-60566-010-3.
- 16. Zhang, Qingyu and Segall, Richard S., "Using Data Mining for Forecasting Data Management Needs, <u>Handbook of Computational Intelligence in Manufacturing and Production Management</u>, Edited by Purnendu Mandal and Dipak Laha, Chapter XXI, pp.419-436, Information Science Reference, IGI Global Publishing Inc., Hersey, PA, 2008, ISBN 978-159904582-5.
- Segall, Richard S., "Data Mining of Microarray Databases for Biotechnology," <u>Encyclopedia of Data Warehousing and Mining</u>, Edited by John Wang, Montclair State University, USA; Idea Group Inc., 2006, ISBN 1-59140-557-2, pp.734-739.
- Rising, Edward J., Segall, Richard S., and Mayhew, L. D., "Patient Travel and Use of Hospitals in Massachusetts: An Application of RAMOS;" 13th volume of <u>London Paper in Regional Science:</u> <u>Planning and Analysis in Health Care Systems</u>, Ed. M. Clarke, Pion Limited, London, England; 1984; pp. 210—220.

IV.(a) <u>CONFERENCE</u> <u>PROCEEDINGS (All Refereed)</u>

- Blevens, Nathaniel Bryce, Segall, Richard S. and Choppari, Sharanya: "Assessing Water Quality Characteristics of pH and Biochemical Oxygen Demand (CBOD) of Public Utility using Statistical Quality Control (SQC)" <u>Proceedings of 23rd World Multi-Conference on Systemics</u>, Cybernetics and <u>Informatics</u> (WMSCI 2019), Orlando, FL, July 6-9, 2019, v.2, pp.11-18.
- Hall, Chelsea; Berleant, Daniel; Segall, Richard S.; and Lu, Shen; "Steps toward Quantifying Advancement in Space Exploration", <u>Proceedings of 20th World Multi-Conference on Systemics</u>, <u>Cybernetics and Informatics</u>, Volume II, WMSCI 2017, Orlando, FL, July 8-11, 2017, pp. 106-112.
- 3. Segall, Richard S., Technologies for Teaching Big Data Analytics, <u>Proceedings of 48th Meeting of</u> <u>Southwest Decision Sciences</u> (SWDSI), Little Rock, AR, March 8–11, 2017, pp. 1611–1625.
- 4. Hahn, Thomas; Rahman, Hidayat Ur; Segall, Richard; Heim, Christoph; Brunson, Raphaela, Brunson, Sharma, Ankush; Asiam, Maryam; Lara-Rodriguez, Ama; Jslam, Sahidual; Gupta, Neha; Embry, Charles S.; Grossman, Patrick; Babar, Shahrukh; Skibinski, Gregory; and Tang, Fusheng; "Remote Access Programs to Better Integrate Individuals with Disabilities", <u>Proceedings of the 7th International ACM SIGACCESS Conference in Computers and Accessibility</u>, Reno, NV; October 24-25, 2016.
- Rahman, Hidayat; Hahn, Thomas and Segall, Richard; "Disease Named Entity Resolution using Conditional Random Fields," <u>Proceedings of the 7th International Symposium on Semantic Mining in</u> <u>Biomedicine (SMBM 2016)</u>, Potsdam, Germany, August 4–5, 2016.

- 6. Lu, Shen and Segall, Richard S., "Combination of Bayesian and Latent Semantic Analysis with Domain Specific Knowledge", <u>Proceedings of 20th World Multi-Conference on Systemics</u>, Cybernetics and <u>Informatics</u>, Volume I, WMSCI 2016, Orlando, FL, July 5-8, 2016, pp. 79-86.
- Akarapu, Vikranth; Gunkala, Sairam; Pattigadapa, Sahitya; Pattigadappa, Bharani Krishna; Ponnapalli, Srikar and Segall, Richard S., "Statistical Quality Control and Improvement of Waste Water Treatment Plant", <u>Proceedings of 20th World Multi-Conference on Systemics, Cybernetics and</u> <u>Informatics</u>, Volume II, WMSCI 2016, Orlando, FL, July 5-8, 2016, pp. 12-17.
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- 9. Lu, Shen, Segall, Richard S. and Hahn, Thomas, "Data Mining on Survival Prediction after Chemotherapy for Diffuse Large-B-Cell Lymphoma and Genomics of Metastasis Cancer", <u>Proceedings of 18th Multi-conference on Systemics, Cybernetics and Informatics</u> (WMSCI 2014), July 15–18, 2014, Orlando, FL
- Segall, Richard S. and Cook, Jeffrey; "Data Visualization and Information Quality by Supercomputing", <u>Proceedings of the Forty-Fifth Meeting of Southwest Decision Sciences Institute</u> (SWDSI), Dallas, TX, March 12-15, 2014.
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- 44. Segall, Richard S., Guha, Gauri S. and Nonis, Sarath A., "Data Mining for Assessing the Impact of Environmental Stresses on Plant Geonomics, <u>Proceedings of the Thirty-Fifth Annual Conference</u> of the Southwest Decision Sciences Institute, Orlando, FL, March 3-6, 2004, pp. 23-31.
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- 47. Segall, Richard S., "Some Applications of Angoss KnowledgeSEEKER IV and SAS Enterprise Miner for Course Instruction on Data Mining of Data Warehouses," <u>Proceedings of the Thirty-Four Annual Conference of Southwest Decision Sciences Institute</u>; Houston, TX, March 6-8, 2003.
- 48. Segall, Richard S. "A Tutorial on Data Mining and Date Warehouses and Some Applications of Angoss KnowledgeSEEKER IV and Visual Decisions In3D;" <u>Proceedings of the Thirtieth</u> <u>Annual Meeting of International Business School Computing Association</u>; Savannah, GA, July 14–17, 2002.
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- 53. Segall, Richard S. and Seydel, John, "Supply Chain Management via Electronic Commerce;" <u>Proceedings of the 3rd World Multiconference on Systemics, Cybernetics and Informatics and the</u>

5th International Conference on Information Systems Analysis and Synthesis, Volume 8: Concepts and Applications of Systemics, Cybernetics and Informatics; Orlando, FL; July 31-August 4, 1999.

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- 57. Segall, Richard S., "Some Methods for Determining Capacities and Locations of Emergency Medical Facilities for Occupational Accidents;" <u>Proceedings of the Tenth</u> <u>International Symposium on Mathematical Modelling and Scientific Computing</u> Boston, MA; July 5—8, 1995; also in journal <u>Mathematical Modelling and Scientific</u> <u>Computing</u>, Vol. 6, 1996.
- 58. Segall, Richard S., "Determining the Capacities and Locations of Emergency Medical Facilities Providing Non-identical Services;" <u>Proceedings of the Fourth Industrial</u> <u>Engineering Research Conference</u>; Nashville, TN; May 24—25, 1995, pp. 1137—1143.
- 59. Segall, Richard S., "Simulation and Stochastic Modeling for the Spatial Allocation of Multi-Categorical Resources;" <u>Proceedings of the Interface of Computing Science and</u> <u>Statistics</u>; Reston, VA; April 1988.
- 60. Segall, Richard S. and Rising, Edward J., "The Application of Computer Technology for the Capacity Planning and Marketing of Hospitals;" <u>Proceedings of 1987</u> <u>International Business School Computer Users Group;</u> Flint, MI; July 26—29, 1987.
- 61. Segall, Richard S.; Jaraiedi, Majid; Khalili, Parviz; and Asoudegi, Ehsan; "Computing Average Outgoing Quality of Single and Double Acceptance Sampling Plans When Incoming Quality is Random;" <u>Proceedings of the 1986 Fall Industrial Engineering Conference</u>; Boston, MA; December 7—10, 1986.
- 62. Segall, Richard S. and Rising, Edward J., "Some Strategies for Using an Origin Constrained Gravity Model for Decision Making of Hospital Capacity;"<u>Proceedings of the</u> <u>Northeast American Institute for Decision Sciences</u>; Williamsburg, VA; March 26—27, 1986.
- 63. Jaraiedi, Majid; Segall, Richard S.; and Asoudegi, Ehsan; "Effect of Random Variations in Incoming Quality on the Average Outgoing Quality of Acceptance Sampling Plans;" <u>Proceedings of</u> <u>the Northeast American Institute for Decision Sciences</u>; Williamsburg, VA; March 26—27, 1986.
- 64. Rising, Edward J. and Segall, Richard S., "The Calibration of an Origin Constrained Gravity Model to Predict Patient Flow," <u>Proceedings of the Third International Conference on Systems</u> <u>Science in Health Care,</u> July 16—20, 1984; Eds. W. van Eimeron, R. Engelbrecht, C. D. Flagel; Springer-Verlag; Berlin,Germany; pp. 1009—1012.
- 65. Rising, Edward J. and Segall, Richard S., "A Model of Patient Use of Hospitals in Massachusetts," <u>Proceedings of Hospital Management Systems Society Annual Conference</u>, San Francisco, CA; February 1984.

IV. (b) CONFERENCE PROCEEDINGS SUBMITTED

 Batthula, Venkata Jaipal Reddy; Segall, Richard S.; Kodali, Venkat; Howell, Michael; Berleant, Daniel; and Aboudja, Hyacinthe; "Time Series Modeling of Lifespans of Earth Satellites", submitted for publication in <u>Proceedings of 24th World Multi-Conference on Systemics, Cybernetics and Informatics</u> (WMSCI 2020), Orlando, FL, July 15-18, 2020.

V. <u>GRANTS AND CONTRACTS AND RESEARCH PROPOSALS</u>

1. Completion of Book Writing and Editing to fulfil Contract Agreement with IGI Global for "A Handbook on Big Data Storage and Visualization Techniques" requesting \$5,000.

Approved for funding by the A-STATE College of Business Summer Research Grant Committee. (2017)

 Mukherjee, Arijit (UCA) and Segall, Richard S (ASU), "Investigating the formation of nodule-like structures in land plants", P3 (Plant <u>P</u>owered <u>P</u>roduction) Program Development Grant award from Arkansas Science and Technology Authority (ASTA), August 1, 2014–July 31, 2015, awarded \$75,000.

- 3. Completion of Book Writing and Editing to fulfill Contract Agreement with IGI Global for "Research and Applications of Global Supercomputing" proposal submitted to ASU College of Business Summer Research Grant Committee requesting \$7,500. Approved for funding by the ASU College of Business Summer Research Grant Committee. (2014)
- 4. "Data Mining for High Performance Computing" by Richard Segall and Shen Lu proposal submitted to National Center for Supercomputing Applications (NCSA) for use of National Science Foundation (NSF) funded XSEDE (Extreme Science and Engineering Discovery Environment) Supercomputers Lonestar and Stampede at Texas Advanced Computer Center (TACC) at University of Texas at Austin for September 30, 2013 to September 30, 2014. *Approved for "Start Up" Allocation Award by National Center for Supercomputing Applications* (NCSA). (2013)
- 5. Oracle 11g Enterprise Edition software and site licenses for College of Business at Arkansas State University with the Oracle Academy Program requesting software licenses for 200 users, including 10 Sun resources and technical support yielding a total commercial value of \$380,671.

Approved for funding by Oracle Corporation. (2016).

6. Oracle 11g Enterprise Edition software and site licenses for College of Business at Arkansas State University with the Oracle Academy Program requesting software licenses for 200 users, including 10 Sun resources and technical support yielding a total commercial value of \$380,671.

Approved for funding by Oracle Corporation. (2015).

7. Oracle 11g Enterprise Edition software and site licenses for College of Business at Arkansas State University with the Oracle Academy Program requesting software licenses for 200 users, including 10 Sun resources and technical support yielding a total commercial value of \$380,671.

Approved for funding by Oracle Corporation. (2014).

8. Oracle 11g Enterprise Edition software and site licenses for College of Business at Arkansas State University with the Oracle Academy Program requesting software licenses for 200 users, including 10 Sun resources and technical support yielding a total commercial value of \$380,671.

Approved for funding by Oracle Corporation. (2013).

9. Oracle 11g Enterprise Edition software and site licenses for College of Business at Arkansas State University with the Oracle Academy Program requesting software licenses for 200 users, including 10 Sun resources and technical support yielding a total commercial value of \$380,671.

Approved for funding by Oracle Corporation. (2012)

10. Hosted ORACLE E-Business Suite on ORACLE Corporation servers and software for 120 student licenses to College of Business at Arkansas State University, approved for funding for 2011–2012 in the amount of \$1,164,240 for software licenses and an undetermined amount for continuous use of servers located at ORACLE Corporation.

Approved for funding by ORACLE Corporation (2011)

11. Oracle 11g Enterprise Edition software and site licenses for College of Business at Arkansas State University with the Oracle Academy Program requesting software licenses for 200 users and technical support yielding a total commercial value of \$380,671.

Approved for funding by Oracle Corporation. (2011)

12. Oracle 11g Enterprise Edition software and site licenses for College of Business at Arkansas State University with the Oracle Academy Program requesting software licenses for 200 users and technical support yielding a total commercial value of \$1,098,090.

Approved for funding by Oracle Corporation. (2010)

13. "Proposal for Funding Support of 2010 MidSouth Computational Biology and Bioinfomatics Society (MCBIOS) Conference" submitted to Director of Arkansas Bioscience Institute, Little Rock, AR

Approved for funding in the amount of \$2,000. (2010)

14. "Visual Analytics of Data-Intensive Web, Text and Data Mining with Multiprocessor Supercomputing" (Request Number: ASC090064) by Qingzu Zhang and Richard Segall proposal submitted to National Center for Supercomputing Applications (NCSA) for use of Supercomputers: IBM e1350 (Big Red) at Indiana University, Sun Constellation Cluster (Ranger) and Sun Visualization System (Spur) at Texas Advanced Computer Center (TACC) at University of Texas at Austin.

Approved for Resource Award by National Center for Supercomputing Applications (NCSA) for 30,000 hours on "Big Red" 150,000 hours on "Ranger" and 20,000 hours on "Spur" with estimated value of \$200,000. (2009)

15. Hosted ORACLE E-Business Suite on ORACLE Corporation servers and software for 120 student licenses to College of Business at Arkansas State University, approved for funding for 2009–2010 in the amount of \$1,163,740 for software licenses and an undetermined amount for continuous use of servers located at ORACLE Corporation.

Approved for funding by ORACLE Corporation. (2009)

16. Oracle 11g Enterprise Edition software and site licenses for College of Business at Arkansas State University with the Oracle Academy Program requesting software licenses for 200 users and technical support yielding a total commercial value of \$493,920.

Approved for funding by Oracle Corporation. (2009)

- 17. "A New Paradigm in Sustaining Information Quality through Automatic Identification" with Farhad Moeeni (PI), Richard Segall (Co-PI), John Seydel, John Talburt (PI at UALR), and Yupo Chan (Co-PI at UALR), requesting \$468,654 for 7/1/09-6/30/11 proposal submitted in December 2008 to National Science Foundation (NSF), Division of Information & Intelligent Systems (IIS). Reviewed for funding by National Science Foundation (NSF) Division of IIS, but not funded. (2009)
- "Visual Analytics of Data-Intensive Web, Text and Data Mining with Multiprocessor Supercomputing" (with Dr. Quigyu Zhang) proposal submitted to ASU College of Business Summer Research Grant Committee requesting \$15,000.

Approved for funding by the ASU College of Business Summer Research Grant Committee. (2008)

 "Enabling Specialty Crop Deregulation with Software: a Prototype" proposal submitted to EPSCoR (Experimental Program to Simulate Competitive Research) P3 (Plant Powered Production) Center Collaborative Seed Grants Program with Daniel Berleant (UALR) [University of Arkansas-Little Rock], Elizabeth Hood (ASU), and Richard Segall (ASU) requesting \$91,571.

Approved for funding by Arkansas Sciences and Technology Authority (ASTA) as National Science Foundation (NSF) Grant Award # EPS-0701890. (2009)

- 20. "A Prototype Program for Attaining Specialty Crop Non-Regulated Status" submitted to Arkansas Biosciences Institute (ABI) Institute-Wide Request for Collaborative Proposals, with Richard Segall (PI), Elizabeth Hood (Co-PI), Vibra Srivastava (Co-PI; UAF), and Daniel Berleant (Co-PI, UALR) requesting \$45,600 for 2009 and \$45,600 for 2010. Reviewed by Arkansas Biosciences Institute (ABI), but not funded. (2008)
- 21. Hosted ORACLE E-Business Suite on ORACLE Corporation servers and software for 100 student licenses to College of Business at Arkansas State University, approved for funding for 2008-2009 in the amount of \$365,543 for software licenses and an undetermined amount for continuous use of servers located at ORACLE Corporation. Approved for funding by ORACLE Corporation. (2008)
- 22. Oracle 10g Enterprise Edition software and site licenses for College of Business at Arkansas State University with the Oracle Academy Program requesting software licenses for 200 users and technical support yielding a total commercial value of \$1,775,820.

Approved for funding by Oracle Corporation. (2008)

23. Segall, Richard S. and Zhang, Qingyu, "Further Continuation of Research on Applications of Web, Text, and Data Mining Techniques in Knowledge Discovery," Proposal submitted to ASU Faculty Research Fund in the amount of \$12,000 in February 2008.

Approved for funding in the amount of \$2,485 by Arkansas Biosciences Institute (ABI) and the Office of Research and Technology Transfer (ORTT) for travel expenses.

24. "A Paradigm Shift in Data Cleansing Process through Automatic Identification" [Moeeni, F. (PI at ASU) & Segall, RS (Co-PI at ASU) with Talburt, J. (PI at UALR) and Chan, Y. (Co-PI at UALR)] Proposal requesting \$449,529 submitted in December 2007 to National Science Foundation (NSF) Division of Information & Intelligent Systems (IIS).

Reviewed for funding by National Science Foundation (NSF) Division of IIS, but not funded. (2008) 25. Grant for Online Course Development at Arkansas State University (ASU) requesting funding for

summer 2008 in the amount of \$3,500 by Office of Academic Affairs and Research (OAAR).

Approved for funding by ASU Office of Academic Affairs and Research (OAAR) (2007).

26. Hosted ORACLE E-Business Suite on ORACLE Corporation servers and software for 120 student licenses to College of Business at Arkansas State University approved for funding in 2007 for \$438,651 for software licenses and an undetermined amount for continuous use of servers located at ORACLE Corporation.

Approved for funding by ORACLE Corporation (2007)

27. "SAS and ORACLE Training: for SAS Enterprise Miner Version 5.2 and Preparation for ORACLE SQL Certification Exam" submitted to Horizon Institute of Technology requesting \$3,000.

Approved for funding from Horizon Institute of Technology (2007)

28. "Course Development Mini Grant for SAS Text Miner for ASU College of Business", proposal submitted to SAS Institute Inc., Cary, NC, Software and site license for 6-month term for MIS 6773: Advanced Data Mining Course to be taught in Spring 2007 & Research. Exact amount unknown but estimated to be about \$75,000.

Approved for funding by SAS Institute Inc. (2006)

- 29. "Further Continuation of Research on Application of Data Mining Techniques in Knowledge Discovery: an In-Depth Investigation on Algorithms and Heuristics (with Dr. Qingyu Zhang) proposal submitted to ASU College of Business Summer Research Grant Committee requesting \$20,000. Approved for funding by the ASU College of Business Summer Research Grant Committee in the amount of \$15,000. (2006)
- 30. "Continuation of Research on Applications of Modern Heuristics and Data Mining Techniques in Knowledge Discovery" (with Dr. Quigyu Zhang) proposal submitted to ASU College of Business Summer Research Grant Committee requesting \$20,000.

Approved for funding by the ASU College of Business Summer Research Grant Committee. (2005)

 "Applications of Modern Heuristics and Data Mining Techniques in Knowledge Discovery" (with Dr. Quigyu Zhang) proposal submitted to ASU College of Business Summer Research Grant Committee requesting \$20,000.

Approved for funding by the ASU College of Business Summer Research Grant Committee. (2004)

32. Co-Investigator (Co-I) of "Biopharmaceuticals – Assessment of Economic and Environmental Issues" with Gauri Guha (Principal Investigator) and Sarath Nonis (Co-Principal Investigator) submitted to ASU Arkansas Biosciences Institute (ABI) requesting \$125,000 for January 1, 2003-December 31, 2003.

Approved for funding by ASU Arkansas Biosciences Institute (ABI) for the amount of \$250,000 as a block grant with proposal "Social Assessment of Pharmaceuticals" submitted by Drs. Andrew Knight and Patrick Stewart "to encourage the development of a focus area in Social, Economic and Regulatory Studies."

33. "Data Warehousing and Database Mining", proposal submitted to Horizon Institute of Technology (HIT) of Arkansas State University, requesting \$10,000. (2003)

Approved for funding by Horizon Institute of Technology.

34. ORACLE software of Financials and Customer Relationship Management (CRM) of E-Business Suite including site licenses and technical support for College of Business at Arkansas State University", yielding a total commercial value of multi-million dollars. (2002)

Approved for funding by ORACLE Corporation.

- 35. SAS Software and site licenses for three-year period expiring December 31, 2004 for College of Business at Arkansas State University yielding a total commercial value of \$250,000. (2001) *Approved for funding by SAS Corporation.*
- 36. "Applications of Neural Networks, Data Mining and Warehousing to Artificial Intelligence and Sensor Array Pattern Recognition", submitted to National Research Council (NRC), Air Force/Summer Faculty Fellowship Program (AF/SFFP) requesting \$18,520. (2001)

Approved for funding by the National Research Council.

- 37. Oracle software of Oracle Marketing, Oracle Sales, Oracle Service, Oracle Call Center and Telephony (CCT), and Oracle e-Commerce Family from the Oracle Centers of Excellence for Customer Relationship Management (CRM), including site licenses, and technical support for College of Business at Arkansas State University yielding a total commercial value of \$4,760,519.85. (2001) Approved for funding by Oracle Corporation.
- 38. Oracle software of Oracle iStore and Oracle iPayment from the Oracle Center of Electronic Commerce; Oracle Data Mart Suite, Oracle Warehouse Builder, Oracle Darwin Deployment Pack, Oracle Express Server from the Oracle Academic Initiative (OAI) Program in Data Warehousing, including site licenses, and technical support for College of Business at Arkansas State University yielding a total commercial value of \$7,787,319.60. (2000)

Approved for funding by Oracle Corporation.

39. Oracle 8i Enterprise Edition software and site licenses for College of Business at Arkansas State University with the Oracle Academic Initiative (OAI) Program requesting \$48,039.95 for software and \$10,560 for support yielding a total commercial value of \$58,599.95. (2000)

Approved for funding by Oracle Corporation.

40. IBM DB2 Universal Database Version 7.1 software and site licenses for College of Business at Arkansas State University yielding a total commercial value of \$1,784,900.00. (2000)

Approved for funding from IBM.

41. "The Use of Sun Microcomputers in the Information Systems Curriculum in the School of Business of a Historically Black College;" submitted to Sun Microsystems Computers Corporation, Palo Alto, CA, as an Academic Equipment Grant (AEG) requesting 25 Sun Microcomputer Workstations installed for the School of Business Microcomputer Laboratory at \$134,505 minus 36% educational rate. (1998)

Reviewed for funding by Sun Microsystems Corporation, but not funded.

42. "Risk Assessment of Hazardous and Radioactive Material Transportation;" written jointly with International Center for Informatics Research (ICIR), College of Business Administration, Texas Tech University, Lubbock, TX, requesting \$146,566. (1997) Reviewed for funding by U.S. Department of Transportation (DOT), but not funded. 43. "Modeling Air Force Logistic and Transportation Problems Using Genetic Algorithms and Large-Scale Optimization;" submitted to U. S. Air Force Office of Scientific Research (AFOSR) requesting \$94,738. (1996)

Reviewed for funding by U.S. Air Force Office of Scientific Research (AFOSR), but not funded.

44. "Optimal Design of Very Large Scale Integrated Networks Using Integer Programming and Genetic Algorithms for Telecommunications and Logistics of the U.S. Air Force;" written jointly with Business Operations Analysis Branch (BOA) of AT&T Bell Laboratories, Somerset, NJ, and submitted to U.S. Air Force Office of Scientific Research (AFOSR) requesting \$304,600. (1995)

Reviewed for funding by U.S. Air Force Office of Scientific Research (AFOSR), but not funded.

45. "Plan of Continued Research on Mathematical Modelling for Predicting Inpatient Medical Care Needs and Associated Medical Costs due to Electromagnetic and Occupational Accidents Occurring in the Military Manpower of the U.S. Air Force;" submitted to National Research Council (NRC) and U.S. Air Force Laboratories (USAFL)/Occupational and Environmental Health Directorate (OEHD) requesting \$53,611. (1994)

Approved for funding by NRC and U.S. Air Force Office of Scientific Research (AFOSR).

- 46. "Optimization Modelling for Aircraft Design and Controlled Space Structures;" submitted to National Research Council (NRC) and National Aeronautics and Space Administration (NASA) Langley Research Center (LRC) requesting \$45,000. (1992) *Reviewed for funding by National Research Council (NRC) (1992) but not funded.*
- 47. "Mathematical Modelling for Predicting Inpatient Medical Care Needs and Associated Medical Costs due to Electromagnetic and Occupational Accidents Occurring in the Military Manpower of the U.S. Air Force;" submitted to National Research Council (NRC) and U.S. Air Force Laboratories (USAFL)/Occupational and Environmental Health Directorate (OEHD) requesting \$51,650. (1992)

Approved for funding by NRC and U.S. Air Force Office of Scientific Research (AFOSR).

48. "Mathematical Modelling of Predicting Disease Prevalence and Associated Medical Costs in the Military Manpower of the U.S. Air Force" submitted to National Research Council (NRC) and US. Air Force Systems Command (AFSC)/U.S. Air Force School of Aerospace Medicine (USAFSAM) requesting \$40,000. (1991)

Approved for funding by NRC, but funding was limited by USAFSAM.

- 49. "Applications of Large-Scale Optimization for Evaluation of Aerodynamic Strength of Aircraft" submitted to National Research Council (NRC) and U.S. Air Force Systems Command (AFSC) requesting \$40,000. (1991). *Reviewed for funding but not funded*.
- 50. "Determination of Optimal Quality Targets Using Taguchi and Karmarkar Methodologies with an Application to the U.S. Navy;" submitted to Office of Naval Research (ONR) with M. Jaraiedi requesting \$84,000. (1991). *Reviewed for funding by ONR, but not funded.*
- 51. "Modelling of Utilization of Large Scale Computer Systems;" submitted to American Society of Engineering Education (ASEE) and National Aeronautic and Space Administration (NASA) Lewis Research Center (LeRC) requesting \$5,600. (1986) Approved for funding by ASEE and NASA LeRC.

52. "Marketing and Patient Flow Models for Hospitals;" submitted to National Center for Health Services Research (NCHSR) with E. J. Rising requesting \$141,108. (1986). *Reviewed for funding by NCHSR, but not funded.*

VI. OTHER PUBLICATIONS: TECHNICAL REPORTS

- Segall, Richard S. and Nonis, Sarath A., "Data Mining for Assessment of Environmental Stress on Plants - A Case Study using OSMID," <u>Acxiom Data Engineering Laboratory Working Paper</u> <u>Series</u>, Conference on Applied Research in Information Technology, February 27, 2004, Publication in Collaboration with University of Arkansas at Little Rock (UALR) Donaghey Cyber College.
- Segall, Richard S., "Incorporating Data Mining and Computer Graphics for Modeling of Neural Networks," <u>Acxiom Data Engineering Laboratory Working Paper Series, ADEL-WP-03-02,</u> Publication in Collaboration with University of Arkansas at Little Rock (UALR) Donaghey Cyber College, 33 pages, March 2003.
- Fish, Kelly E. and Segall, Richard S., "A Visual Analysis of Learning Rule Effects and Variable Importance for Neural Networks Employed in Data Mining Operations;" <u>Acxiom Data Engineering Laboratory Working Paper Series, ADEL-WP-02-03</u>, Publication in Collaboration with University of Arkansas at Little Rock (UALR) Donaghey Cyber College, 41 pages, March 2002.
- Segall, Richard S., <u>Final Report for U. S. Air Force Summer Faculty Fellowship (AF/SFFP):</u> "<u>Applications of Neural Networks, Data Mining and Warehousing to Artificial Intelligence</u> <u>and Sensor Array Pattern Recognition</u>"; National Research Council (NRC), Washington, DC, August 2001; 59 pages.
- Segall, Richard S. and Gleit, Alan, "Mathematical Models for Optimal Resource Allocations in Diagnostic Screening," <u>Technical Report: Dept. of IE/OR</u>; University of Massachusetts at Amherst, 1981.
- 6. Segall, Richard *S.* and Gleit, Alan, "Optimal Resource Allocation Models for Diagnostic Screening," <u>Technical Report: Dept. of IE/OR</u>; University of Massachusetts at Amherst, 1980.

7. <u>A Computer Method for the Analysis of Variance of an Irregular Two Way Design</u>, Technical Memorandum, Infantry Weapons Systems Analysis Division, Aberdeen Proving Grounds, MD, 1978.

- 8. <u>A Computer Method for the Calculation of Factor Effects of a 2ⁿ3^m Factorial Experiment, Technical Memorandum, Infantry Weapons Systems Analysis Division, Aberdeen Proving Grounds, MD, 1978.</u>
- 9. <u>A Computer Method for the Statistical Determination of Multiple Comparisons</u>, Technical Memorandum, Infantry Weapons Systems Analysis Division, Aberdeen Proving Grounds, MD, 1978.
- 10. <u>A Computer Method for Time Series Model Identification</u>, Technical Memorandum, Infantry Weapons Systems Analysis Division, Aberdeen Proving Grounds, MD, 1978.
- <u>A Statistical Consultation for Test Data from the Mechanized Infantry Combat Vehicle (MICV)</u>, Technical Memorandum, Infantry Weapons Systems Analysis Division, Aberdeen Proving Grounds, MD, 1978. (41 pages)
- <u>A Computer Method for Bartlett's Tests for the Homogeneity of Variance</u>, Technical Memorandum, Infantry Weapons Systems Analysis Division, Aberdeen Proving Grounds, MD, 1978.

- 13. <u>Miradcom Data Tape Processing: An Outline</u>, Technical Memorandum, Infantry Weapons Systems Analysis Division, Aberdeen Proving Grounds, MD, 1978. (33 pages)
- An Analysis of Hit-Probabilities and Impact Coordinates from Stationary Day Firing of the Dragon Weapon System, Technical Memorandum, Infantry Weapons Systems Analysis Division, Aberdeen Proving Grounds, MD, 1978. (18 pages)

VII. NON-REFEREED PUBLICATIONS

- Howell, M., Kodali, V., Kreinovach, V., Aboudja, H., Batthula, V.J. R., Segall, R. & Berleant, D., "The Space Race in History: The USSR Started Ahead but US Space Technology Advanced Faster", <u>The Space Review: Essays and Commentary about the Final Frontier</u>, December 2, 2019. Available at <u>https://www.thespacereview.com/article/3840/1</u>
- Berleant, Daniel; Kodali, Venkat; Segall, Richard; Anoudja, Hyacithe, and Howell, Michael; Moore's Law, Wright's Law and the countdown to exponential space, <u>The Space Review: Essays and</u> <u>Commentary about the Final Frontier</u>, January 7, 2019. Available at <u>http://www.thespacereview.com/article/3632/1</u>
- "How is Big Data a Part of Everyday Life? Hear More from the Experts Dr. Richard Segall and Jeffrey Cook", <u>IGI Global Newsroom</u>, Nov 8, 2018. Available at <u>https://www.igi-global.com/newsroom/archive/big-data-part-everyday-life/3967/</u>
- 4. Segall, Richard S. and Seydel, John, "Horizon Institute Funds Research Awards to 3 CoB Faculty," ASU College of Business Publication, Summer/Fall 2004, Number 9, page 7.
- 5. Segall, Richard S., "College Acquires 3-year SAS Grant," <u>The Business Connection</u>, ASU College of Business Publication, Spring/Summer 2002, Number 7, page 15.
- 6. Segall, Richard S., "College Acquires Technology Grants," <u>The Business Connection</u>, ASU College of Business Publication, Spring/Summer 2001, Number 5, page 5.

VIII. PAPERS PRESENTED

- Howell, Michael, Kodali, Venkat, Segall, Richard, Aboudja, Hyacinthe, Berleant, Daniel, "Moore's Law and Space Exploration: New Insights and Next Steps", <u>Arkansas Academy of</u> <u>Sciences 103rd Annual Meeting</u>, Hendrix College, Conway, AR, March 29–30, 2019.
- Hahn, T., Wuttke, D., Marseca, P., Begum, N., Segall, R., Benes, H. and Tang, F., "Vacuolar Lipid Membrance, Autophatic and Metobolic Changes, Play Key Roles in the Progression of the Yeast's Aging Process", <u>25th Annual Southeastern Regional Yeast Meeting (SERYM 2018)</u>, Memphis, TN, March 9–11, 2018.
- Hahn, T., Wuttke, D., Marseca, P., Segall, R. and Tang, F., "Uncovering Imperatively Hidden Objects (IHO) to complete Feature Selection in order to Enhance Accuracy and Predictive Power of Supervised Machine Learning (ML) Algorithms", <u>MidSouth Computational Biology &</u> <u>Bioinformatics Society (MCBIOS-XV)</u>, Mississippi State University, Starkville, MS, March 29-31, 2018.
- 4. Duggurala, Ronithkumareddy; Kodali, Venkat; Segall, Richard; Berleant, Daniel; and Aboudja, Hyacinthe; Steps Toward Measuring World Space Exploration Activity, <u>Arkansas Academy of</u> <u>Sciences, 102 Annual Meeting</u>, A-STATE, Jonesboro, AR, April 7, 2018.
- 5. Segall, Richard S., "Using Tablets and Mobile Devices for Visual Analytics of Big Data in Bioinformatics, <u>14th Annual Meeting of Computational Biology and Bioinformatics Society</u>

(MCBIOS), Little Rock, AR, March 23-25, 2017.

- 6. Segall, Richard S., "Technologies for Teaching Big Data Analytics, <u>48th Southwest Decision</u> <u>Sciences Meeting</u> (SWDSI), Little Rock, AR, March 8-11, 2017.
- 7. Segall, Richard S., "Energy Conservation and Economics by Assessing Water Quality of a Waste Treatment Plant", <u>Fifth Annual Renewable Energy Conference</u>, Arkansas State University, State University, October 14, 2016.
- 8. Rahman, Hidayat; Hahn, Thomas; and Segall, Richard; "Advanced Feature-Driven Disease Named Entity Recognition Using Conditional Random Field", <u>7th ACM Conference on Bioinformatics</u>, <u>Computational Biology, and Health Informatics</u> (ACM BCB), Seattle, WA, October 2-5, 2016.
- 9. Rahman, Hidayat; Hahn, Thomas; and Segall, Richard; Biomedical Disease Name Entity Recognition: An Ensemble Approach, Poaster presented at <u>ACM Richard Tapia Celebration of</u> <u>Diversity in Computing Conference</u>, Austin, TX, September 14–17, 2016.
- Lu, Shen; Hahn, Thomas; and Segall, Richard; "Comparison of Data Mining Methods on Microarray Gene Expression Data on Cancer", Poster presented at <u>ACM Richard Tapia Celebration</u> of Diversity in Computing Conference, Austin, TX, September 14–17, 2016.
- Hahn, Thomas; Rahman, Hidayat; and Segall, Richard; Free Remote Software to Better Integrate Disabled Students into Mainstream Education, Lighting Talk, <u>Research on Equity and</u> <u>Sustained Participation in Engineering, Computing, and Technology (RESPECT) Conference,</u> Atlanta, GA, August 11–13, 2016.
- 12. Rahman, Hidayat; Hahn, Thomas; and Segall, Richard; Disease Named Entity Recognition Using NCBI Corpus, <u>International Conference on Biological Ontology & BioCreative</u>, Corvallis, OR, August 1–4, 2016.
- 13. Rahman, Hidayat; Hahn, Thomas; and Segall, Richard; Biomedical Disease Name Entity Recognition: Poster presented at <u>EXtreme Science and Engineering Discovery Environment</u> (XSEDE), Miami, FL, July 17-21, 2016.
- Hahn, Thomas; Lu, Shen and Segall, Richard; "Comparison of Data Mining Methods on Microarray Gene Expression Data on Cancer", Poster presented at <u>EXtreme Science and Engineering Discovery</u> <u>Environment</u> (XSEDE), Miami, FL, July 17-21, 2016.
- 15. Segall, Richard, "High Performance Computing and Data Mining in Bioinformatics"; FedEx Institute of Technology, <u>13th Annual Meeting of MidSouth Computational Biology and Bioinformatics Society</u> (MCBIOS), Memphis, TN, March 3-5, 2016.
- 16. Hahn, Thomas, Segall, Richard; Benes, Helen and Tang, Fusheng; "Regulation of Sterol Transport in Repsones to Aging in Saccharomyces Cerevisiae", Poster at <u>13th Annual Meeting of MidSouth</u> <u>Computational Biology and Bioinformatics Society (MCBIOS)</u>, Memphis, TN, March 3-5, 2016.
- Lu, Shen and Segall, Richard; "Linkage Discovery by Combining Latent Semantic Analysis and Bayesian Segmentation with Glossaries", Poster at <u>8th Annual Graduate Student Research</u> <u>Symposium</u>, University of South Florida, Tampa, FL, March 28, 2016.
- Hahn, Thomas; Segall, Richard; Benes, Helen and Tang, Fusheng; Vacuoles relieve Reactive Oxygen Species Stress and Extend The Lifespan, <u>Aging Conference 2016</u> organized by EuroSciCon. February 9–11, 2016, London, UK, February 9–11, 2016.

- 19. Hahn, Thomas; Segall, Richard; Benes, Helen and Tang, Fusheng; Regulation of Sterol Transport in Response to Aging, Leibniz-Institute for Age Research - Fritz Lipmann Institute organized by the <u>German Association for Aging Research (DGfA)</u>, Jena, Germany, December 4-5, 2015.
- 20. Lu, Shen; Segall, Richard and Hahn, Thomas; "Comparison of Data Mining Methods on Microarray Gene Expression Data on Cancer", Poster presentation at <u>Extreme Science and Engineering</u> <u>Discovery Environment (XSEDE)</u>, St. Louis, MO, July 26-30, 2015.
- 21. Mukherjee, Arijit (UCA) and Richard Segall (ASU), "Investigating the formation of nodule-like structures in land plants"; Oral Presentation at <u>Arkansas P3</u> (<u>Plant Powered Production</u>) <u>Annual Research Symposium</u>, Fayetteville, AR, July 1, 2015.
- 22. Hiltenbrand, R., McCarthy, H., Thomas, J., Dykema, K., Zimulinda, D., Spurr, A, Segall, R., Winn, M., Mukherjee, A., Poster Presentation "Investigating the formation of nodule-like structures in land plants"; Presentation at <u>Arkansas P3 (Plant Powered Production) Annual</u> <u>Research Symposium</u>, Fayetteville, AR, July 1, 2015.
- 23. McArthy, Hannah; Thomas, Jackie; Dykema, Karl; Zimulinda, David; Spurr, Ashley; Segall, Richard; Winn, Mary; Mukherjee, Arijit; "Investigating the formation of nodule-like structures in land plants", Poster presentation at <u>Arkansas P</u>3 (Plant <u>P</u>owered <u>P</u>roduction) <u>Annual Research</u> <u>Symposium</u>, Poster Abstract #8, Fayetteville, AR, June 29-July 1, 2015.
- 24. Hahn, Thomas; Segall, Richard S., Teng, Fusheng, and Benes, Helen "Discovering mechanisms of rejuvenation and life extension from yeast microarray data using computational methods" presentation at <u>12th Annual Meeting of MidSouth Computational Biology and Bioinformatics Society</u> (MCBIOS), Little Rock, AR, March 14–15, 2015.
- 25. Segall, Richard S.; Pippinger, Nickolas; Berleant, Daniel; Eversole, Kellye; Mustell, Robert; Vicuna-Requesens, Deborah; Biedenbender, Christopher, and Hood, Elizabeth, "Information Quality Methods and Extraction of Numerical Information from a Corpus of Scientific Papers Related to Corn" presentation at <u>12th Annual Meeting of MidSouth Computational Biology and Bioinformatics Society</u> (MCBIOS), Little Rock, AR, March 14-15, 2015.
- 26. Mukerherjee, Arijit and Segall, Richard S. "Using next generation sequencing technologies and big data analyses to investigate the transcriptomic responses during formation of nodule like structures in land plants" poster presentation at <u>12th Annual Meeting of MidSouth Computational Biology and Bioinformatics Society</u> (MCBIOS), Little Rock, AR, March 14–15, 2015.
- 27. Hahn, Thomas; Segall, Richard; Benes, Helen and Tang, Fusheng; Vacuoles relieve reactive oxygen species stress and extend lifespan, <u>Drug Discovery and Development Colloquium</u>, University of Arkansas at Little Rock (UALR) & University of Arkansas Medical Science (UAMS), Little Rock, AR, June 20–21, 2015.
- 28. Hahn, Thomas; Segall, Richard; Benes, Helen and Tang, Fusheng; Multiple Sequence Alignment Tool, NIH, <u>NIGMS Fifth Biennial National IDeA Symposium of Biomedical Research Excellence</u> (NISBRE), Washington, DC, June 16-18, 2014.
- 29. Gupta, Neha; Hahn, Thomas; Balakrishnan, Prasanna and Segall, Richard S., "Biomedical Text Mining Using Large-Scale Distribution Machine Learning Algorithms", Poster at <u>MidSouth</u> <u>Computational Biology and Bioinformatics Society (MCBIOS XI) Conference</u>, Oklahoma State University, Stillwater, OK, March 7-8, 2014.

- 30. Segall, Richard S., "Data, Text and Web Mining in Bioinformatics and Micro-Array Databases", Next Gen Sequencing/Bioinformatics Cluster, <u>Arkansas P3 Center Annual Research Symposium</u>, Little Rock, AR, April 8–9, 2013.
- 31. Lu, Shen, Hahn, Thomas and Segall, Richard S., "Data Mining on Survival Prediction after Chemotheraphy for Diffuse Large B-Cell Lymphoma", Poster presented at <u>Joint Meeting of the</u> <u>Southern Section of the American Society of Plant Biologists (ASPB) and P3 Symposium</u>, Little Rock, AR, April 6-9, 2013.
- Lu, Shen, Segall, Richard S. and Hahn, Thomas, "Comparison of Data Mining Methods on Microarray Gene Expression Data on Cancer", Poster presented at <u>MidSouth Computational Biology &</u> <u>Bioinformatics Society Conference (MCBIOS X</u>), Columbia, MO, April 5-6, 2013, p. 82 Abstract
- Segall, Richard S., "Technology in Classroom Teaching in Colleges of Business and Engineering", <u>Global Teaching Conference</u>, Arkansas State University, Jonesboro, AR, March 27, 2013.
- 34. Lu, Shen, Segall, Richard S. and Hahn, Thomas, "Comparison of Data Mining Methods on Microarray Gene Expression Data on Cancer", Poster presented at the <u>National Science Foundation</u> (NSF) Bioinformatics Workshop to Foster Collaborative Research, Little Rock, AR, March 3-5, 2013.
- 35. Lu, Shen, Segall, Richard S. and Hahn, Thomas, "Linkage Discovery with Glossaries and Topic Segmentation", Poster presented at the <u>National Science Foundation (NSF) Bioinformatics Workshop</u> <u>to Foster Collaborative Research</u>, Little Rock, AR, March 3-5, 2013. *Poster Award*: 3rd Place, Faculty/Staff, Computational Division.
- 36. Lu, Shen and Segall, Richard S., "Linkage Discovery by Combining Latent Semantic Analysis with Glossaries from Biosciences Domains", Poster Presentation at <u>2012 Arkansas NSF EPSCoR Annual Meeting</u>, Springdale, AR; August 13-14, 2012.
- Lu, Shen and Segall, Richard S., "Multi-SOM: an Algorithm for High-Dimensional Small Size Datasets", <u>16th World Multi-Conference on Systemics</u>, <u>Cybernetics and Informatics</u>: WMSCI 2012, Orlando, FL, July 17–July 20, 2012
- 38. Lu, Shen and Segall, Richard S., "E-Book Reader: A Software Tool for Knowledge Discovery from Bioinformatics Proceedings", <u>AR P3 Center Annual Symposium 2012 & the 3rd Annual Conference of</u> <u>the American Council for Medicinally Active Plants</u> (ACMAP), Poster Presentation, May 22-25, 2012.
- 39. Lu, Shen and Segall, Richard S., "E-Book Reader: A Software Tool for Knowledge Discovery from Bioinformatics Proceedings", <u>Poster Presentation & Abstract at 9th MidSouth Computational Biology</u> <u>and Informatics Society (MCBIOS) Annual Conference</u>, Oxford, MS; February 17-18, 2012.
- Lu, Shen, Segall, Richard S. and Belford, Robert E., "Linkage Discovery within Symposium Proceedings", <u>6th BioNanoTox and Applications Research Conference</u>, Little Rock, AR, November 17–18, 2011.
- 41. Lu, Shen and Segall, Richard S., "Statistical Quality Control of Microarray Gene Expression Data", <u>15th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2011)</u>, Orlando, FL, July 19–July 12, 2011.
- 42. Lu, Shen and Segall, Richard S., "Linkage in Medical Records and Bioinformatics Data", <u>2011</u> <u>MidSouth Computational Biology and Bioinformatics Society (MCBIOS) Meeting</u>, College Station, TX April 1–2, 2011.

- 43. Lu, Shen and Segall, Richard S., "Data Quality Control and Segmentation for Bioinformatics", <u>Arkansas P3 (Plant Powered Production) Symposium & Arkansas National Science Foundation (NSF)</u> <u>EPSCoR (Experimental Program to Simulate Competitive Research) Annual Meeting</u>, Heber Spring, AR, July 26-28, 2011.
- Berleant, D. Segall, R, Hood, E., Eversole, K., Vicuna, D., Atiff, S., Biedenbender, C., Pamarthi, J, and Pippenger, N., Enabling Crop Deregulation with Software: a Prototype, <u>Arkansas P3 Symposium</u>, Winthrop Rockefeller Institute, Pete Jean Mountain, AR, August 17, 2010.
- 45. Vicuna-Requesens, Deborah V., Eversole, Kellye A., Mustell, Robert A., Segall, Richard S., Berleant, Daniel, Hood, Elizabeth, "Establishing a Baseline Database to Demonstrate Substantial Equivalence of GE and non-GE crops through Data Mining and Text Mining", Poster #36, <u>Arkansas</u> <u>P3 Symposium</u>, Winthrop Rockefeller Institute, Pete Jean Mountain, AR, August 15-17, 2010.

46. Atiff, Samin and Segall, Richard S., "Use of SAS Text Miner in Bioinformatics", Poster #11, <u>Arkansas P3 Symposium</u>, Winthrop Rockefeller Institute, Pete Jean Mountain, AR, August 15–17,2010.

- Segall, Richard S., Zhang, Qingyu, and Pierce, Ryan, "Data Mining Supercomputing with SAS JMP® Genomics", <u>14th World Multi-Conference on Systemics</u>, <u>Cybernetics and Informatics</u> (WMSCI 2010), Orlando, FL, June 29–July 2, 2010.
- 48. Atiff, Samin and Segall, Richard S., "Use of SAS Text Miner in Bioinformatics", Poster Presentation at <u>MidSouth Computational Biology and Informatics Society (MCBIOS) Annual</u> <u>Conference</u>, Arkansas State University, Jonesboro, AR, February 19–20, 2010.
- Segall, Richard S. and Zhang, Qingyu, "Data Mining and Visualization of Mouse Genome Data," <u>13th World Multi-Conference on Systemics, Cybernetics and Informatics</u> (WMSCI 2009), Orlando, FL, July 12, 2009.
- 50. Segall, Richard S. and Pierce, Ryan M., "Advanced Data Mining of Leukemia Cell Micro-Arrays", <u>13th World Multi-Conference on Systemics, Cybernetics and Informatics</u> (WMSCI 2009), Orlando, FL, July 12, 2009.
- 51. Segall, Richard S. and Qingyu Zhang, "Data Mining of Forest Cover and Human Lung Micro-array Databases for Bioinformatics", <u>Poster Session at Arkansas EPSCoR (Experimental Program to</u> <u>Simulate Competitive Research) P3 (Plant-Powered Production) Conference</u>, Winthrop Rockefeller Institute of University of Arkansas System, Petit Jean Mountain, AR, August 20–22, 2008.
- 52. Segall, Richard S. and Zhang, Qingyu, "Web Mining of Hotel Customer Survey Data", <u>12th World</u> <u>Multi-Conference on Systemics, Cybernetics and Informatics</u> (WMSCI 2008), Orlando, FL, June 30, 2008.
- 53. Segall, Richard S. and Zhang, Qingyu, "Web Mining for Analyzing Customer Survey and Marketing Campaign Data" <u>2008 Conference of Applied Research in Information Technology</u>, sponsored by Acxiom Laboratory for Applied Research (ALAR), University of Central Arkansas (UCA), Conway, AR, March 14, 2008. [Peer-reviewed invited presentation]
- 54. Segall, Richard S. and Zhang, Qingyu, "Teaching Web Mining in the Classroom: with an Overview of Web Usage Mining," <u>Thirty-ninth Annual Conference of the Southwest Decision Sciences</u> <u>Institute</u>, vol. 39, no. 1, Houston, TX, March 6, 2008.
- 55. Segall, Richard S. and Zhang, Qingyu, "Data Mining of Forest Cover and Human Lung Micro-Array Databases for Bioinformatics", <u>Poster Session at Arkansas Bioinformatics</u> <u>Symposium</u> (ARBIOS), Arkansas State University (ASU), April 19, 2007.

- 56. Segall, Richard S. and Zhang, Qingyu, "Data Visualization and Data Mining of Micro-Array Databases for Biotechnology", <u>2006 Conference of Applied Research in Information Technology</u>, sponsored by Acxiom Laboratory for Applied Research (ALAR), University of Central Arkansas (UCA), March 3, 2006.
- 57. Segall, Richard S. and Zhang, Qingyu, "Applications of Neural Network and Genetic Algorithm Data Mining Techniques in Bioinformatics Knowledge Discovery – A Preliminary Study", <u>Thirty-seventh Annual Conference of the Southwest Decision Sciences Institute</u>, Oklahoma City, OK, March 3, 2006.
- Segall, Richard S., "Teaching Data Mining is NOT Teaching Statistics," <u>ASU College of Business</u> <u>Teaching Conference: Improving Teaching and Learning Advances in Higher Education</u>, Jonesboro, AR, April 6, 2006.
- 59. Segall, Richard S., "Data Mining of Microarray Databases for the Analysis of Environmental Factors on Plants Using Cluster Analysis and Predictive Regression", <u>Annual Conference of the</u> <u>Southwest Decision Sciences Institute</u>, Dallas, TX, March 4, 2005.
- 60. Segall, Richard S., "Data Mining of Microarray Databases for the Analysis of Environmental Factors on Corn and Maize," <u>2005 Conference of Applied Research in Information Technology</u>, sponsored by Acxiom Laboratory for Applied Research (ALAR), University of Central Arkansas (UCA), February 18, 2005.
- 61. Guha, Gauri S., Rose, Adam Z., Nonis, Sarath A., and Segall, Richard S., "An Input-Output Analysis of Biotech Impacts on the State of Arkansas", <u>Southwestern Society of Economists</u>, Orlando, FL, March 5, 2004.
- 62. Segall, Richard S., Guha, Gauri S. and Nonis, Sarath A., "Data Mining for Assessing the Impact of Environmental Stresses on Plant Geonomics", <u>Thirty-Fifth Annual Conference of the Southwest</u> <u>Decision Sciences Institute</u>, March 5, 2004.
- Segall, Richard S. and Nonis, Sarath A., "Data Mining for Assessment of Environmental Stress on Plants - A Case Study using OSMID," <u>Conference on Applied Research in Information</u> <u>Technology</u> sponsored by Acxiom Corporation at University of Arkansas at Little Rock (UALR), February 27, 2004.
- 64. Guha, Gauri S., Nonis, Sarath A., Baral, Anil and Segall, Richard S., "The Potential of Biotechnology: Promises, Perils and Perplexities – A Survey of Impacts on Relevant Economic Sectors" <u>Allied Academies International Conference</u>, Las Vegas, NV, October 15-18, 2003. *Recipients of "Distinguished Research Award" by the Academy of Economics and Economic Education.*
- 65. Nonis, Sarath A., Guha, Gauri S., and Segall, R. S., "Relationship Between Consumer Knowledge and Attitude about Biotechnology and Their Purchase Behavior Intentions: Moderating Effects of Innate Consumer Innovativeness and Anxiety with Social Issues," <u>International Business</u> <u>and Economics Conference</u>, Las Vegas, NV, October 6-10, 2003. *Recipients of "Best Paper Award."*
- 66. Segall, Richard S., "Some Applications of Angoss KnowledgeSEEKER IV and SAS Enterprise Miner for Course Instruction on Data Mining of Data Warehouses," <u>Thirty-Fourth Annual</u> <u>Conference of Southwest Decision Sciences Institute</u>; Houston, TX, March 6, 2003.
- 67. Segall, Richard S., "Incorporating Data Mining and Computer Graphics for Modeling of Neural Networks", <u>Conference on Applied Research in Data Engineering</u> sponsored by Acxiom Corporation at University of Arkansas at Little Rock (UALR), November 1, 2002

- 68. Fish, Kelly E. and Segall, Richard S., "A Visual Analysis of Learning Rule Effects and Variable Importance for Neural Networks Employed in Data Mining Operations"; <u>Conference</u> <u>on Applied Research in Data Engineering</u> sponsored by Acxiom Corporation at University of Arkansas at Little Rock (UALR), November 9, 2001
- 69. Segall, Richard S., and Albanese, Richard A., "Mathematical Modeling and Computation for Determination of Optimum Geographical Locations of Emergency Medical Facilities"; <u>Third Society of Industrial and Applied Mathematics Conference on Mathematical and Computational Issues in the Geosciences</u>; San Antonio, TX; February 8—10, 1995.
- Segall, Richard S., "Optimization Modelling for Neural Networks and Mathematical Biology"; <u>Fourth Society for Industrial and Applied Mathematics Conference on Optimization</u>; Chicago, IL; May 11–13, 1992.
- Segall, Richard S., Copeland, Arthur H., Ringo, Chris D., and Moore, III, Berrien,
 "Mathematical Modelling for Oceans"; <u>Operations Research Society of America National Meeting</u>; Nashville, TN; May 12–15, 1991.
- 72. Segall, Richard S., Copeland, Arthur H., Ringo, Chris D., and Moore, III, Berrien, "Mathematical Modelling of Singular Value Decomposition Problems for Oceans"; <u>International</u> <u>Conference on Industrial and Applied Mathematics</u>; Washington, DC; July 8—12, 1991.
- 67. Segall, Richard S., "Solving Bi-level Geometric Programming Problems by Branch and Bound"; <u>Third Society for Industrial and Applied Mathematics Conference on Optimization</u>; Boston, MA; April 3—5, 1989.
- 68. Segall, Richard S., Copeland, Arthur H., Ringo, Chris D., and Moore, III, Berrien, "Dynamical Systems for Inverse Ocean Modelling"; <u>Society for Industrial and Applied</u> <u>Mathematics Conference on Dynamical Systems</u>; Orlando, FL; May 7—10, 1990.
- 69. Segall, Richard S., "Bi-level Geometric Programming"; <u>Northeastern Mathematical</u> <u>Association of America Meeting</u>; Providence, RI; November 18—19, 1988.
- 70. Segall, Richard S., "A Stochastic Mu1ti-Category Spatial Resource Allocation Model for Large Scale Systems"; <u>Northeastern Mathematical Association of America Meeting</u>; Winooski, VT; June 10—11, 1988.
- 71. Segall, Richard S., "Some Results of Data Perturbations on Large Scale Mathematical Programming Models as Applied to Massachusetts Hospital Discharge Data"; <u>Tenth Symposium on</u> <u>Mathematical Programming with Data Perturbations</u>; Washington, DC; May 26-27, 1988.
- 72. Segall, Richard S., "Some Nonlinear Optimization Model for Planning of Large Scale Systems", Event MD37.5, <u>Operations Research Society of America National Meeting</u>; Washington, DC; April 1988.
- Segall, Richard S., "Some New Research Directions for Optimization Problems with Multiple Objectives"; <u>Northeastern Mathematical Association of America Meeting</u>; Waltham, MA; November 20–21, 1987.
- 74. Segall, Richard S., "Mathematical Programming for the Optimization of Objectives of Health Care Systems"; <u>Northeastern Mathematical Association of America Meeting</u>; New London, CT; June 11—12, 1987.

- 75. Segall, Richard S., "Forecasting User Requirements for Coherent Computer Systems"; <u>The Seventh International Symposium on Forecasting</u>; Boston, MA; May 26—29, 1987.
- 76. Segall, Richard S., and Rising, Edward J., "A Model for Forecasting Hospital Bed Requirements"; <u>The Seventh International Symposium on Forecasting</u>; Boston, MA; May 26-29, 1987.
- White, John R., Segall, Richard S., and Bibeau, Donna, "Numerical Optimization Methods in Nuclear Fuel Management", <u>Society for Industrial and Applied Mathematics</u> <u>National Meeting</u>; Boston, MA; July 21–25, 1986.
- Segall, R. S., Rising, E. J., Abrahamson, P. C., and Sonderman, D. C., "Mathematical Modeling of Patient Travel and Use of Hospitals in Massachusetts", Event MB 19.4, <u>Operations Research Society of America National Meeting</u>; Orlando, FL; November 1983.
- 79. Segall, R. S., Abrahamson, P. G., Rising, E. J., and Sonderman, D. C., "Models of Area Wide Medical Care Delivery", Event WA21.1, <u>Operations Research Society of America</u> <u>National Meeting</u>; San Diego, CA; October 1982.
- IX. SCHOLARLY PRESENTATIONS TO ORGANIZATIONS AND ACADEMIC DEPARTMENTS
- 1. Segall, Richard S., "Research and Applications in Global Supercomputing," Presentation at <u>A-STATE College of Business Research Seminar Series</u>, October 1, 2014.
- Segall, Richard S., "Data Mining of Micro-array Databases for Bioinformatics and Environmental Stress Tolerances for Plants", <u>Arkansas Biosciences Institute (ABI) Lecture Series</u>, ASU-Jonesboro, April 2, 2008.
- Segall, Richard S. and Zhang, Qingyu, "Data Mining of Micro-Array Databases for Bioinformatics with Four-Selected Software," <u>Department of Computer & Information</u> <u>Technology Teaching/Research Seminar Series</u>, Arkansas State University College of Business, Jonesboro, AR, October 11, 2006.
- 4. Segall, Richard S., "Data Mining of Micro-Array Databases for Biotechnology", R & R in the Bioinformatics World, <u>Arkansas Biosciences Institute (ABI) Lecture Series</u>, ASU, October 19, 2005.
- 5. "Mathematical Models of Health Care Systems", <u>AT & T Bell Seminar Series</u>, Georgia Institute of Technology, School of Industrial and Systems Engineering, March 1994.
- 6. "Mathematical Models of Health Care Systems", Brooks AFB, TX, <u>School of Aerospace Medicine</u> <u>Seminar Series</u>, San Antonio, TX, August 1993.
- 7. "Combinatorial Optimization Graph Theoretic Optimization Problems", University of Louisville, <u>Department of Mathematics Seminar Series</u>, February 1991.
- 8. "The Mathematics of Optimization: Beyond Karmarkar: Interior Point Algorithms", University of Louisville, <u>Department of Mathematics Seminar Series</u>, October 1990.
- 9. "The Mathematics of Optimization: Karmarkar's Superconvergence Beats Watermelons", University of Louisville, <u>Department of Mathematics Seminar Series</u>, October 1990.
- 10. "The Mathematics of Optimization: Kachican's Ellipsoid Algorithm", University of Louisville, <u>Department of Mathematics Seminar Series</u>, October 1990.
- 11. "Superlinear Convergent Optimization Methods", University of New Hampshire, <u>Department of</u> <u>Mathematics Seminar Series</u>, March 1990.

X. PLENARY KEYNOTE ADDRESSES:

1. Invited Plenary Address at International Institute of Informatics and Systemics (IIIS) Conference titled: "Big Data: A Treasure Chest for Interdisciplinary Research", 20th Multi-conference on Systemics, Cybernetics, and Informatics (WMSCI 2016), July 5-8, 2016, Orlando, Florida, USA. Video at URL http://www.iiis.org/ViewVideo2016.asp?id=14

2. Invited Plenary Address at International Institute of Informatics and Systemics (IIIS) Conference titled: "Research and Applications in Global Supercomputing: An Interdisciplinary Science", 18th Multi-conference on Systemics, Cybernetics, and Informatics (WMSCI 2014), July 15–18, 2014, Orlando, Florida, USA.

Recorded Video and PowerPoint slides available at: <u>http://www.iiis.org/ViewVideo2014.asp?id=10</u>

3. Invited Plenary Address at International Institute of Informatics and Systemics (IIIS) Conference titled: "Dimensionalities of Computation: From Global Supercomputing to Data, Text and Web Mining, 17th <u>World Multi-conference on Systemics, Cybernetics and Informatics</u> (WMSCI 2013), Orlando, FL, July 9-12, 2013.

Recorded Video posted on web at: <u>http://www.iiis.org/ViewVideo2013.asp?id=14</u> Posted on YouTube at URL: <u>http://www.youtube.com/watch?v=8S4aiEyvge8</u>

4. Invited Plenary Address at International Institute of Informatics and Systemics (IIIS) Conference titled: "Dimensionalities of Knowledge Discovery using Data, Text and Web Mining", <u>16th World Multi-</u>conference on Systemics, Cybernetics and Informatics (WMSCI 2012), Orlando, FL, July 17-20, 2012. Recorded Video posted on web at:

<u>http://iiissummer2012.wordpress.com/2012/07/31/dimensionalities-of-knowledge-discovery-using-data-</u> <u>text-and-web-mining/</u> and also on YouTube at URL:<u>http://www.youtube.com/watch?v=m9Az2r025dA</u>

XI. TELEVISION & WEBINAR APPEARANCES:

1. "How Does Big Data Affect You? A Look into the Process that Drives Everyone's Decisions", *IGI Global Webinar Series*, November 14, 2018. Available at <u>https://www.igi-global.com/symposium/</u> and also at <u>https://www.youtube.com/watch?v=O2klyCpJE6I</u>

2. February 19, 2010, KAIT8 TV, Jonesboro, AR, *"10:00PM News"* hosted by Lauren Payne and Craig Rickert: MidSouth Computational Biology and Bioinformatics Conference at Arkansas State University.

3. February 19, 2010, KAIT8 TV, Jonesboro, AR, "5:00PM News" hosted by Dianna Davis: MidSouth Computational Biology and Bioinformatics Conference at Arkansas State University.

4. January 20, 2010, KAIT8 TV Jonesboro, AR, *"Midday News"* hosted by Dianna Davis with Jeffrey Cook: MidSouth Computational Biology and Bioinformatics Conference at Arkansas State University.

5. January 15, 2010 to February 19, 2010, Suddenlink TV Channel 14 Hourly Advertisements of MidSouth Computational Biology and Bioinformatics Conference to be held at Arkansas State University.

6. April 19, 2001, KAIT8 TV, Jonesboro, AR, "5:00PM News" hosted by Dianna Davis: ASU Receives ORACLE Grant

XII. PATENT APPLICATIONS:

1. US Patent Application Publication [US 2011/0224933 A1]; "Method and System for Data Collection and Analysis to Assist in Facilitating Regulatory Approval of a Product" (Hood, EE; Eversole, KA; Berleant, JD; Segall, RS; Mustell, RA; and Requesens, DV); Patent Number 13/019,083.

Professional Activities:

Membership in Professional Organizations:

- 1. Association for Computing Machinery (ACM)
 - Special Interest Group on Artificial Intelligence
 - Special Interest Group on Knowledge Discovery and Data Mining
 - Special Interest Group on Management of Data
 - Special Interest Group on Management Information Systems
- 2. Association of Information Systems (AIS)
- 3. American Society of Engineering Education (ASEE)
- 4. Decision Sciences Institute (DSI)
- 5. Institute for Operations Research and the Management Sciences (INFORMS) Artificial Intelligence Section
 - Data Mining Section
 - Decision Analysis Section
 - eBusiness Section
 - Health Applications Section
 - Information Systems Society
 - Location Analysis Section
 - Military Application Section
 - Spreadsheet Productivity Research Interest Group
 - Technology Management Section
 - **Telecommunications** Section
 - Transportation Science and Logistics Section
- 6. Institute of Electrical & Electronics Engineers (IEEE) Computer Society
- 7. Institute of Industrial Engineers (IIE)
 - Logistics, Transportation and Distribution Section Operations Research Division Society for Health Systems
- 8. International Society of Computational Biology (ISCB); 2011-Present, Membership funded by MCBIOS (MidSouth Computational Biology and Bioinformatics Society) for Board Members.
- 9. The BioNanoTox International Society, 2011 to Present.
- 10. International Institute of Informatics and Cybernetics (IIIS), 2008 to Present.

Editorial Board Appointments of Refereed Journals:

- 1. Journal of Heathcare Engineering, Guest Editor of Special Issue: "Big Data Analytics-as-a-Service: Architecture, Algorithms, and Applications in Health Informatics", Appointed 2017
- 2. International Journal of Data Science (IJDS), Inderscience Publishers Ltd., Appointed 2013
- 3. *International Journal of Data Mining, Modelling and Management* (IJDMMM), Inderscience Publishers Ltd., Appointed 2008.
- 4. The Open Cybernetics and Systemics Journal, Bentham Science Publishers, Ltd., Appointed 2008.
- 5. The Open Medical Informatics Journal, Bentham Science Publishers, Ltd., Appointed 2008.
- 6. The Open Bioinformatics Journal, Bentham Science Publishers, Ltd., Appointed 2009.
- 7. Proceedings of MidSouth Computational Biology and Bioinformatics Society (MCBIOS) Conference, Special Issue of BMC Bioinformatics, Appointed 2010.

<u>Professional Service on International Committees & Appointments</u>:

- Program Committee of the 23rd World Multi-Conference on Systemics, Cybernetics and Informatics: (WMSCI 2019), July 6-9, 2019, Orlando, FL
- 2. Reviewer for the 10th International Multi-Conference on Complexity, Informatics and Cybernetics: (IMCIC 2019), March 12 15, 2019, Orlando, FL and WMSCI 2019, July 6-9, 2019, Orlando, FL.
- Organizing Committee of the first workshop on "Big data analytics-as-a-Service: Architecture, Algorithms, and Applications in Health Informatics", Association of Computing Machinery (ACM) KDD (Knowledge Discovery in Data) 2017 Conference, August 14-17, 2017, Halifax, Nova Scotia, CANADA

- Panelist of Panel: "Challenges and Future Directions", at first workshop on "Big data analytics-as-a-Service: Architecture, Algorithms, and Applications in Health Informatics", Association of Computing Machinery (ACM) KDD (Knowledge Discovery in Data) 2017 Conference, August 14-17, 2017, Halifax, Nova Scotia, CANADA
- 5. Program Committee of the 22nd World Multi-Conference on Systemics, Cybernetics and Informatics: (WMSCI 2018), July 8-11, 2018, Orlando, FL
- 6. Program Committee of the 21st World Multi-Conference on Systemics, Cybernetics and Informatics: (WMSCI 2017), July 8-11, 2017, Orlando, FL
- Co-Chair of Session "Bio-Medical and Applications of Informatics and Cybernetics in Science and Engineering", 20th World Multi-Conference on Systemics, Cybernetics and Informatocs (WMSCI 2016), July 5-8, 2016, Orlando, FL
- 8. Program Committee of the 18th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2014), July 15-July 18, 2014, Orlando, FL
- 9. Program Committee of the 17th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2013), July 9-July 12, 2013, Orlando, FL
- 10. Program Committee of "International Conference on Information and Communication Technologies and Applications" (ICTA 2012), November 13-16, 2012, Orlando, FL.
- 11. Program Committee of the 16th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2012), July 17-July 20, 2012, Orlando, FL.
- 12. Program Committee of the "Special Track on Science 2.0 and Expansion of Science" (S2ES 2012), July 17-July 20, 2012, Orlando, FL.
- 13. Program Committee of the 15th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2011), July 19-July 22, 2011, Orlando, FL.
- 14. Program Committee of the 14th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2010), June 29-July 2, 2010, Orlando, FL.
- 15. Program Committee of the 13th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2009), July 10-13, 2009, Orlando, FL.
- 16. Co-Chair of Session "Concepts, Principles, Methodologies and Applications of Cybernetics", WMSCI 2009, July 12, 2009.
- 17. Co-Chair of Session "Concepts, Principles, Methodologies and Applications of Cybernetics", WMSCI 2008, July 1, 2008.
- 18. International Institute of Informatics and Systemics (IIIS), Appointed 2008.

Professional Service on Regional Professional Organization Committees:

- 1. Board of Directors, Southwest Decision Sciences Institute (SWDSI), elected for 3-year term 2013-2015.
- 2. Board Member of MidSouth Computational Biology & Bioinformatics Society (MCBIOS): elected for 3-year term (2009-2012);
- 3. Elected Office of Secretary for MidSouth Computational Biology & Bioinformatics Society (MCBIOS): elected for 1-year term (2011-2012);
- Local Arrangements Chair for MidSouth Computational Biology & Bioinformatics Society (MCBIOS) 2010 Conference held at Arkansas State University, February 19-20, 2010; 240 paid registrations from 15 states & CANADA.

Professional Service at Regional Meeting:

1. Session Chair for "Internet of Things and Big Data", Southwest Decision Sciences Institute (SWDSI) Meeting, March 2017, Little Rock, AR.

Service: Arkansas State University

1998-Present

| <u>Awards:</u> | " <u>Excellence</u> l | in External Se | ervice", College (| of Business, A | <u>pril 2011.</u> |
|----------------|-----------------------|-----------------|----------------------------|----------------|-------------------|
| | "Excellence l | in Professional | <i> Service"</i> , Colleg | ge of Business | s, April 2004. |
| | | | | | |

<u>Committee Memberships:</u>

1. Member of Faculty Senate Elected for Fall 2006 to Present (2020). Faculty Senate Finance Committee Member: 2008 to Present. Faculty Senate Patent Task Force Committee Member: 2012 to Present

- 2. Member of Data Science Curriculum Committee (2019-2020)
- 3. Member of University Faculty Research Awards Committee (FRAC) Fall 2006 to Present (2017).
- 4. University Sponsored Research Committee Member Fall 2011 to Spring 2014, Fall 2018-Spring 2020, Chair 2013-2014
- 5. College of Business Faculty Development Committee Chair: 2011-2012, Member Fall 2004 to Present.
- 6. College of Business Entrepreneurship Committee Co-Chair: 2011-2012, Member 2012 to 2013.
- 7. College of Business Undergraduate Graduation & Academic Appeals Committee: Fall 2011 to Present.
- 8. Member of CIT Department Promotion, Retention and Tenure (PRT) Committee Elected Fall 2009-Spring 2012.
- 9. Member of Research & Teaching Balance Task Force: How to reward superior teaching and continue to grow research functions (Spring 2008)
- 10. Member of IT-Distance Learning-Online Education Task Force Committee (Fall 2007)
- 11. Member of Technology Committee, Co-Chair (2003-4) College of Business Fall 1998 to Present
- 12. Member of Department of CIT Grievance Committee Fall 2005 to Present
- 13. Member of Department of CIT Faculty Search Committee Fall 2003 to Spring 2004
- 14. Member of Graduate Curriculum Committee, College of Business Fall 2001 to Spring 2003
- 15. Member of Department of Economics & Decision Sciences Technology Committee Fall 1998 to Spring 2002.

Member of Graduate Programs Comprehensive Exam Committees: Arkansas State University:

- 1.) Member of Comprehensive Exam Committees in "*Master of Information Systems and E-Commerce* (*ISeC*)": 2004 to Spring 2010. [15 Students]
- 2.) Member of Comprehensive Exam Committees in "Master of Engineering Management (MEM)": 2009 to Present. [About 80 Students]

<u>Member of MS Thesis Committees: University of Arkansas at Little Rock (UALR) 2020</u> *Time Series Modelling of Deep Space Mission Spacecraft Life Spans* Dr. Daniel Berleant, Chair, Department of Information Science, Michael Howell (M.S. in Information Science, May 2020, UALR)

<u>Member of MS Thesis Committees: University of Arkansas at Little Rock (UALR) 2019</u> <u>Lifespan Analysis of Earth Satellites</u>, Dr. Daniel Berleant, Chair, Department of Information Science, Venkata Jaipal Reddy Batthula Kodali (M.S. in Information Science, December 2019, UALR)

Member of Thesis Committee: Lamar University, Beaumont, TX 2017-2018:

 Neha Gupta, Department of Computer Science, M.S. in Computer Science. Date of Graduation: August 2018; Date of Thesis Supervision: January 2017 to August 2018 Thesis Title: Biomedical Text Mining Using Large Scale Distributed Machine Learning Algorithms Thesis Committee: Graduate Advisor: Dr. Timothy Roden, Larmar University Graduate Co-Advisor: Dr. Stefan Andrei, Lamar University Thesis Committee Member: Dr. Richard Segall, A-STATE <u>Member of PhD Thesis Committee: University of Arkansas at Little Rock (UALR) 2017-2018:</u> Thomas H. Hahn, Program in Bioinformatics, UALR/UAMS, "Machine Learning on Aging Reverse Engineering Aging with Machine Learning", Fusheng Tang, PhD. Thesis Advisor, Department of Biology, UALR, Helen Benes, UAMS, Mary Yang, Head of Bioinformatics Program, Department of Information Science, M.Orloff (UAMS), F. Simmen (UALR), and S. Ayyadevara (UAMS).

<u>Member of MS Project Committees: University of Arkansas at Little Rock (UALR) 2016–2018</u> *Models of Space Exploration*, Dr. Daniel Berleant, Chair, Department of Information Science, Rohith Kumarreddy Duggirala, *Space Exploration: A Data Analysis of Missions to Astronomical Bodies Beyond Earth* (M.S. in Information Science, May 2018, UALR)

<u>Member of MS Thesis Committees: University of Arkansas at Little Rock (UALR) 2017-2018</u> <u>Earth Satellites Data Analysis</u>, Dr. Daniel Berleant, Chair, Department of Information Science, Venkat Kodali (M.S. in Information Science, May 2018, UALR)

<u>Member of Master's Thesis Committee: University of Arkansas at Little Rock (UALR) 2009-2015:</u> Nickolas Pippinger, "Information Quality Processes and Methods to Improve Extraction of Numerical Information from Unstructured Texts", Master of Information Quality option in Information Science. Thesis was partially funded by P3 Grant with Professor Daniel Bereleant (UALR), Elizabeth Hood (ASU), and Richard Segall (ASU).

<u>Member of Master's Thesis Committee: University of Arkansas at Little Rock (UALR) 2015:</u> Thomas F. Hahn^{1,2} "*Reverse Effects of Caloric Restriction Reveal Roles of Vacuoles in Longevity*" ¹Department of Biology, University of Arkansas at Little Rock ²Program of Bioinformatics, University of Arkansas at Little Rock, Little Rock, AR 72211

<u>Member of McNair Summer Program Project at University of Arkansas at Little Rock (UALR): 2015</u> Tevin D. Wilburn, "*Space Faring Activities: Progress in Space Exploration"*, with Professor Daniel Berleant, University of Arkansas at Little Rock (UALR), Department of Information Science.

Member of Thesis Committee: University of Arkansas at Little Rock (UALR) 2009-2010:

 Jagadish Pamarthi, Department of Computer Science, M.S. in Computer Science. Date of Graduation: December 2010; Date of Thesis Supervision: January 2009 to December 2010 Thesis Title: Extracting Properties of Crops from Web Data for Deregulation using ProExTrac Thesis Committee: Graduate Advisor: Dr. Coskun Bayrak, UALR

Graduate Co-Advisor: Dr. Daniel Berleant, UALR

Thesis Committee Member: Dr. Richard Segall, ASU

Thesis funding obtained from P3 [Plant-Powered Production] Grant awarded by Arkansas Science and Technology Authority (ASTA) in 2009–2010 with Dr. Richard Segall as Co-Pl

| Service: | Albany | State University | <u> 1997-98</u> |
|------------------|----------|---|--|
| | 1. | Committee to Develop the MIS Program, Chair | |
| | 2. | Distance Learning/Weekend University, Member | |
| | 3. | Grade Appeal Committee, Member | |
| | 4. | Management Committee, Member | |
| | 5. | College of Business Computer Labs, Member | |
| <u>Service</u> & | h Thesis | Committee Member: Texas Tech University | 1996-97 |
| | | Served on Doctoral Dissertation Committee of thesis ent on Relative Performance of Genetic Algorithms: First Resu Knowledge, Direction and Representation in Three Small N Greg J. Langevin, Area of Information Systems and Quant Served in development of "Program in Medical Informatic with the International Center of Informatics Research (I Business Administration (COBA). | ults on the Significance of letworks Structures" by titative Sciences (ISQS). is via Distance Learning" |

Service: University of Massachusetts at Lowell

- 1. Graduate Curriculum Committee of Department of Mathematical Sciences
- 2. Mathematics Day, Co-Chair
- 3. Statistics and Operations Research Master's Projects, Committee Member

1986-89