

BIOGRAPHICAL SKETCHES

Seyed Roosta, Ph.D.

Work Address

Interim Dean and Professor of Computer Science
College of Sciences and Technology
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(a) Professional Preparation

University of Iowa, Iowa City, Iowa	Operations Research/CS Ph.D.	[1996]
University of Iowa, Iowa City, Iowa	Computer Science M.S.	[1992]
Tehran University, Tehran, Iran	Computer Science B.S.	[1979]

(b) Academic Appointments

[2017-present] Interim Dean and Professor,
College of Sciences and Technology
Albany State University, Albany, Georgia

[2014-2017] Professor and Chairperson,
Mathematics and Computer Science Department
Albany State University, Albany, Georgia

[2008-2014] Associate Professor and Chairperson,
Mathematics and Computer Science Department
Albany State University, Albany, Georgia

[2006- 2008] Professor in Computer Information Systems,
CIS and Information Technology Division
DeVry University, Houston, Texas

[2004- 2006] Associate Professor in Computer Science,
Computer Science Department
Texas Southern University, Houston, Texas

[2000- 2004] Assistant Professor in Computer Science,
Mathematics and Computer Science Division
University of South Carolina, Spartanburg, South Carolina

[1996- 2000] Assistant Professor in Computer Science,
Computer Science Department
State University of New York, Oswego, New York.

(c) Work Experience

System Analyst: The University of Iowa, Library Automation, Iowa City, IA, March 1993 - October 1994

- Designed and implemented an on-line inventory system for the Libraries' computer hardware using Q&A.

Information Systems Coordinator: The University of Iowa, Conference Center, Iowa City, IA, February 1991 - December 1992

- Designed and maintained a database and registration system for conferences using DataEase.

System Analyst and Project Leader: The National Iranian Oil Company (N.I.O.C), Tehran, IRAN, August 1982 - August 1989

- Designed and implemented the Management Information Systems
- Designed and implemented Wages system
- Converted and installed MAPS (Maintenance Planning System) for Tehran refinery, a branch of EXXON
- Converted and installed PROPS (Project Planning System) for Tehran refinery

System Analyst and Project Leader: The Combine Factory (branch of JOHN DEERE Company), Arak, IRAN, January 1987 - June 1989

- Designed and implemented Material System and Payroll System

System Analyst and Project Leader: The Azar-Ab Factory, Arak, IRAN, July 1986 - January 1987

- Designed and implemented Payroll System

System Analyst and Project Leader: The Machine-Sazi Manufactory of Iran, Arak, IRAN, January 1985 - June 1986

- Designed, programmed and installed Material and Inventory System

(d) Publications: Books

1. "Foundations of Programming Languages: Design and Implementation", Seyed H. Roosta, Thomson Learning, 2003, ISBN=0-534-39303-9
2. "Parallel Processing and Parallel Algorithms: Theory and Computation", Seyed H. Roosta, Springer-Verlag, 2000, ISBN=0-387-98716-9, listed in Amazon.com as

BestSelling/MostPopular among 147 titles

(e) Journals and Papers Presented in Conferences

1. Seyed Roosta, Anilkumar Devarapu, "Search Methods and Optimal Graph Partitioning with Weighted Nodes", 4th International Conference on Computer Engineering and Bioinformatics (ICCEB 2015), April 6-7, 2015, Orlando, Florida, Awarded with Excellent Oral Presentation Certificate
2. Anilkumar Devarapu, Seyed Roosta, "Stochastic Simulation Methods for System Biology", 4th International Conference on Computer Engineering and Bioinformatics (ICCEB 2015), April 6-7, 2015, Orlando, Florida
3. Seyed Roosta, "Data Allocation and Transaction Processing in Distributed Database Systems", European International Journal of Science and Technology, Vol. 2, No. 7, September 2013, pp. 57-65
4. Seyed Roosta, Anilkumar Devarapu, "Optimal Graph Partitioning with Weighted Nodes", Forty-Fourth Southeastern International Conference on Combinatorics, Graph Theory & Computing, March 4-8, 2013, Boca Raton, Florida

5. Anilkumar Devarapu, Seyed Roosta, "Deterministic and Stochastic Simulation analysis of Nonlinear Biochemical Reaction Networks", Forty-Fourth Southeastern International Conference on Combinatorics, Graph Theory & Computing, March 4-8, 2013, Boca Raton, Florida
6. Vani Cheruve, Anilkumar Devarapu, Seyed Roosta, "Parallel Implementation of SSA to bio-chemical reaction network", 15th SIAM Conference on Parallel Processing for Scientific Computing, Feb. 17, 2012, Savannah, Georgia
7. Mohammad Talukder, Seyed H. Roosta, "Construction of Two-dimensional Block Design for Correlated Errors", Mathematical Association of America Southeastern Section, 88th Annual Meeting, 13-14 March 2009, Belmont University, Nashville, Tennessee
8. Seyed H. Roosta, "Networking and Distributed Interactive Systems", ACET 2007: 43rd Annual Conference, Association for Computer Educators in Texas, Austin, Texas, October 10-12, 2007
9. Seyed H. Roosta, "Data Allocation in Distributed Databases", IKE06: The 2006 International Conference on Information and Knowledge Engineering, Las Vegas, Nevada, June 26-29, pp. 434-438, 2006
10. Seyed H. Roosta, "Optimizing Distributed Query Processing", PDPTA05: International Conference on Parallel and Distributed Processing Techniques and Applications, Las Vegas, Nevada, June 27-30, pp. 869-875, 2005
11. Seyed H. Roosta, "Synchronization in Distributed Systems", PDPTA04: International Conference on Parallel and Distributed Processing Techniques and Applications, Las Vegas, Nevada, June 21-24, pp. 641-647, 2004
12. Seyed H. Roosta, "A Programming Environment for Static and Dynamic Distributed Systems", J. of the South Carolina Academy of Science, Vol. 2(1), pp. 42-60, Fall 2004
13. Seyed H. Roosta, "Request-Service Scheduling in Dynamic Communication Networks", 18th IEEE Int. Paral. & Dist. Proc. Sym., New Mexico, April 26-30, pp. 178-182, 2004
14. Seyed H. Roosta, "Reliable Synchronization in Distributed Systems", International Journal of Computer Mathematics, Vol. 81, No. 6, pp. 661-673, 2004
15. Seyed H. Roosta, "Dynamic Networking Refinement in Distributed Systems", 3rd IEEE Int. Conference on Peer-to-Peer Computing, Linkoping, Sweden, Sept. 1-3, pp. 74-81, 2003

(f) Scholarly Activities, Grants and Awards (Funded)

1. PI. STEM Education Improvement Grant, Board of Regents, University System of Georgia, 2016, \$42,635
2. Lead Co.PI. HBCU-UP Implementation Grant (From Learning Community to Teaching Community, PI Provost), National Science Foundation, 2014-2018, \$1,749,961
3. Co-PI. ASU MARC to BRIDGE Program Grant (Collaboration with Natural Science Department, PI Dr. Jain), National Institute of Health, 2012-2017, \$1,800,000
4. Co-PI. Collaborated in Masters Program Enhancement Grant, Department of Education, 2009-2016, (PI Dr. Johnson) Share for Math & CS department \$300,000

5. PI. iAAMCS Grant (Undergraduate Research Program), Winston-Salem State University, NC, 2014, 2015, 2016, \$25,500
6. PI. Computing Research Association (STEM Improvement Program), DC, 2012, 2013, 2014, \$3,600
2. PI. Dynamic Data Communication Networking, Teaching and Productive Scholarly Grant, Texas Southern University, 2006, \$12,950
3. PI. Synchronization Problems in Distributed Systems, Teaching and Productive Scholarly Grant, Texas Southern University, 2005, \$4,800
4. PI. Data Fusion in Dynamic Communication Networks, National Geospatial-Intelligence Agency, 2005, \$19,750
5. Co.PI. Improving Retention in Computer Science through Integration of a Distributed Computing Facility for High Performance Networking and Computing, Technology Workforce Development Programs, 2005, \$72,600
6. Annual Award for Scholarly and Creative Pursuits, University of South Carolina, 2003
7. PI. Teaching & Productive Scholarship Grant, U of South Carolina, 2003, \$7,500
8. PI. Teaching & Productive Scholarship Grant, U of South Carolina, 2002, \$9,112
9. PI. Integration of a Robotics Lab in CS Program, Staubli Corporation, 2002, \$350,000
10. PI. Research & Productive Scholarship Grant, U of South Carolina, 2001, \$12,500
11. PI. SUN Microsystems Company Scholarly Program, 2001, \$10,000
12. PI. Teaching & Productive Scholarship Grant, U of South Carolina, 2000, \$3200
13. PI. Scholarly and Creative Activity Grant, State University of New York, 1999, \$3000

(g) Professional Growth Activities - Seminars, Workshops, Professional Meetings, etc.

HBCU-UP 2016 Summit Summer Program (Organizer)
HBCU-UP 2015 Summit Summer Program (Organizer)
ASU 2014 Summit Summer Program
FGLSAMP STEM First & Second Year Conference, 2013
NSF Robert Noyce Teacher Scholarship Program Workshop, 2012
STEM Symposium, 2012
Management Training Summit, 2011
7th Annual Lois Hollis Colloquium Conference, 2010
AED & CPR Training Workshop, 2010
Lean Six Sigma White Belt Training Workshop, 2009
Professional Development Workshop for Academic Advisors, 2009

(h) Professional-Related Community Activities, including Consulting

Member of the Board of Regents ACMS Curriculum and Ad-Hoc Committees
Member of the Advisory Committee Albany Technical College

Reviewed Mathematics Curriculum for Accreditation, King Fahd University, King Saud University and Tabuk University, Saudi Arabia in 2015 and 2016
Reviewed Mathematics and Computer Science Curriculum for Accreditation, Fort Valley State University 2013
Consulting for Computing Research Association, 2012, 2013, 2014
Knowledgeable with ABET and SACS accreditation process

(i) Synergic Activities

Received external fund from DOE to enhance Master in Math Education.
Received external fund from NIH to enhance STEM undergraduate programs.
Received external fund from BOR to enhance STEM undergraduate programs.
Received external fund from NSF to enhance STEM undergraduate programs.
Received external funds from ACM to conduct undergraduate research activities.
Received external funds from WSSU to conduct undergraduate research activities.

(j) Collaborators & Other Affiliations

Collaborates on research projects with other institutions in area; Georgia Southwestern Fort Valley State, Alabama State University and University of Georgia

(k) Courses Taught

Undergraduate Level (Albany State University)

CSCI 1301: Computer Science I
CSCI 3132: DataBase Management Systems
CSCI 3211: Computer Organization & Architecture I
CSCI 3212: Computer Organization & Architecture II
CSCI 4113: Operating Systems
CSCI 4921: Senior Project I
CSCI 4922: Senior Project II

Graduate Level (Texas Southern University)

CS 541: Operating Systems
CS 531: Computer Architecture
CS 553: Foundations of Programming Languages
CS 696: Parallel Processing
CS 511: Design and Analysis of Algorithms

Undergraduate Level (DeVry University)

CIS 206: Architecture and Operating Systems
CIS 247: Object-Oriented Programming, C#
CIS 363: Web Interface Design, ASP.NET
CIS 405: Database Programming, ASP.NET
CIS 410: Web Application Development, ASP.NET

Graduate Level (Keller Graduate School of Management, DeVry University)

IS 535: Managerial Application of Information Technology
IS 589: Networking Concepts with ASP.NET

Undergraduate Level (University of South Carolina, Spartanburg)

SCSC530: Structure of Programming Languages

SCSC599: Parallel Computing

SCSC511: Operating Systems

SCSC310: Computer Architecture

SCSC344: Introduction to Robotics

SCSC210: Assembly Language

Undergraduate Level (State University of New York, Oswego)

CSC222: Computer Architecture and Assembly Language

CSC344: Foundations of Programming Languages

CSC375: Parallel Computing

CSC443: Operating Systems

CSC445: Data Communication

CSC465: Design and Analysis of Algorithms

Undergraduate Level (Teaching Assistant, University of Iowa)

January-June 1992 (Computer Architecture)

August-December 1991 (Organization of Programming Languages)

August-December 1990 (Operating Systems)