

**CURRICULUM VITAE**  
**of**  
**Nagarajan Prabakar (Prabu)**  
**School of Computing and Information Sciences**  
**Florida International University**

**EDUCATION**

Ph.D.	University of Queensland, Australia	Computer Science	1985
M.E.	Indian Institute of Science, India	Automation	1979
B.E.	Annamalai University, India	Electrical & Electronics Engineering	1977

**FULL-TIME ACADEMIC EXPERIENCE**

FIU	Associate Professor	Computer Science	Aug 1991 - present
FIU	Assistant Professor	Computer Science	Aug 1985 – Aug 1991
FIU	Visiting Assistant Professor	Computer Science	Aug 1984 – Aug 1985

**NON-ACADEMIC EXPERIENCE**

Indian Telephone Industries, Bangalore    Assistant Executive Engineer    Nov 1979 – Jul 1981

**PROFESSIONAL HONORS, PRIZES, FELLOWSHIPS**

Excellence in Service Award, College of Engineering and Computing, FIU, 2012

Excellence in Service Award, School of Computing and Information Sciences, 2011

Teaching Incentive Program Award at Florida International University, 1995

University of Queensland M.I.M. Holdings Ltd. prize for attaining the highest level of academic achievement in Computer Science Postgraduate Studies, 1982 and 1984

University of Queensland Postgraduate Research Scholarship, 1981 - 1984

Gold medal for securing the first rank in B.E. at Annamalai University, 1977

**PUBLICATIONS IN DISCIPLINE**

- SK Peddoju, H Upadhyay, J Soni and **N Prabakar**: “Natural Language Processing based Anomalous System Call Sequences Detection with Virtual Memory Introspection” *International Journal of Advanced Computer Science and Applications* (IJACSA), 11(5), pp 455-460, 2020. <http://dx.doi.org/10.14569/IJACSA.2020.0110559>

- J Soni, **N Prabakar**, and H Upadhyay: ‘Visualizing High Dimensional Data using T-Distributed Stochastic Neighbor Embedding Algorithm’ in ‘Principle of Data Science’ In: Arabnia H., Daimi K., Stahlbock R., Soviany C., Heilig L., Brüssau K. (eds) Principles of Data Science. Transactions on Computational Science and Computational Intelligence. *Springer*, Cham. Pp 189-206, 2020 [https://doi.org/10.1007/978-3-030-43981-1\\_9](https://doi.org/10.1007/978-3-030-43981-1_9)
- J Soni, **N Prabakar**, and H Upadhyay: ‘Comparative Analysis of LSTM Sequence-Sequence and Auto Encoder for real-time anomaly detection using system call sequences’, *International Journal of Innovative Research in Computer and Communication Engineering*, Vol. 7, Issue 12, pp. 4225-4230, 2019.
- GS Thejas, J Soni, KG Boroojeni, SS Iyengar, K Srivastava, P Badrinath, NR Sunitha, **N Prabakar**, and H Upadhyay: ‘A Multi-time-scale Time Series Analysis for Click Fraud Forecasting using Binary Labeled Imbalanced Dataset’, Proceedings of the 4th International Conference on Computational Systems and Information Technology for Sustainable Solutions [CSITSS], Bengaluru, India, pp. 1-8, Dec 20-21, 2019.
- J Soni, **N Prabakar**, and H Upadhyay: ‘Behavioral Analysis of System Call Sequences Using LSTM Seq-Seq, Cosine Similarity and Jaccard Similarity for Real-Time Anomaly Detection’, Proceedings of the 6th International Conference on Computational Science and Computational Intelligence (CSCI), Las Vegas, Nevada, pp. 214-219, Dec 5-7, 2019.
- J Soni, **N Prabakar**, and H Upadhyay: ‘Feature Extraction through Deepwalk on Weighted Graph’, Proceedings of the 2019 International Conference on Data Science (ICDATA’19), Las Vegas, pp.164-170, July 29 - Aug 1, 2019.
- J Soni, **N Prabakar**, and H Upadhyay: ‘Deep Learning Approach to Detect Malicious Attacks at System Level’, Proceedings of the 12th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec’19), Miami, Florida, pp. 314-315, May 15-17, 2019 <https://doi.org/10.1145/3317549.3326308>
- GS Thejas, J Soni, K Chandna, SS Iyengar, NR Sunitha, and **N Prabakar**: ‘Learning-Based Model to Fight against Fake Like Clicks on Instagram Posts’, *Proceedings of the IEEE SoutheastCon 2019*, Huntsville, Alabama, pp. 1-8, Apr 11-14, 2019.
- J Soni and **N Prabakar**: ‘Effective Machine Learning Approach to Detect Groups of Fake Reviewers’, *Proceedings of the 2018 International Conference on Data Science (ICDATA’18)*, Las Vegas, pp. 74-78, July 30-Aug 2, 2018.
- YJ Jung, HY Park, K Maitra, **N Prabakar**, and J-H Kim: ‘Real-Time, Simultaneous and Proportional Myoelectric Control for Robotic Rehabilitation Therapy of Stroke Survivors’, *Therapeutic Science for Neurorehabilitation*, Vol. 7, No. 1, pp. 78-87, 2018.
- J-H Kim, G Sharma, I Cardenas, D Kim, **N Prabakar**, and SS Iyengar: ‘DynamicPIN: A Novel Approach Towards Secure ATM Authentication’, *Proceedings of the 4<sup>th</sup> Annual Conference on Computational Science and Computational Intelligence (CSCI’17)*, Las Vegas, Dec 14-16, 2017.
- J-H Kim, **N Prabakar**, G Sharma, and SS Iyengar: ‘Inspiring Innovative Aspirations among Undergraduate Students’. *Proceedings of the 8th International Conference on Computer Science Education: Innovation and Technology (CSEIT 2017)*, Singapore, October 9-10, 2017 ISSN 2251-2195 DOI: 10.5176/2251-2195\_CSEIT17.58.

- J Soni, **N Prabakar**, and J-H Kim: ‘Prediction of Component Failures of Telepresence Robot with Temporal Data’. *30th Florida Conference on Recent Advances in Robotics*, Boca Raton, pp.178-181, May 11-12, 2017.
- S Sundarapandian, JH Kim, S Ferris-Francis, J Miller, **N Prabakar**, C Charters, H Michko: ‘A Novel Communication Architecture and Control System for TeleBot: A Multi-Modal Telepresence Robot for Disabled Officers’. *International Journal of Next-Generation Computing*, Vol. 7, No. 3, 2016.
- J-H Kim, G Sharma, N Boudriga, SS Iyengar, and **N Prabakar**: ‘Autonomous pipeline monitoring and maintenance system: An RFID-based approach’. *Springer Open: EURASIP Journal on Wireless Communications and Networking*, 2015:262, 10.1186/s13638-015-0495-y, <http://www.jwcn.erasipjournals.com/content/2015/1/262> 2015.
- J-H Kim, **N Prabakar**, and C Tope: ‘Efficient Concurrent Operations of Telepresence Avatars’. *Proceedings of the 44<sup>th</sup> International Symposium on Robotics, CINTEX*, Seoul, Korea, Oct 24-26, 2013.
- **N Prabakar**, C Tope, and J-H Kim: ‘A Smart Multi Telepresence Robot Management System’. *Proceedings of the 2013 World Congress on Advances in Nano, Biomechanics, Robotics, and Energy Research (ANBRE13)*, Seoul, Korea, pp. 43-51, Aug 25-28, 2013.
- U Cerron, **N Prabakar**, and J-H Kim: ‘A Framework for Affordable Telemedicine Service’. *Proceedings of the 29<sup>th</sup> Southern Biomedical Engineering Conference (SBEC)*, Miami, pp. 171-172, May 3-5, 2013.
- **N Prabakar**, J Kim, U Cerron, and SS Iyengar: ‘Sensor Network Based Parking Management System’. *Proceedings of the 4th International Conference on Sensor Networks and Applications*, New Orleans, pp. 181-185, Nov 2012.
- R Rangaswami, SM Sadjadi, **N Prabakar**, and Y Deng: ‘Automatic generation of user-centric multimedia communication services’. *Proceedings of the 26th IEEE International Performance Computing and Communications Conference (IPCCC)*, New Orleans, pp. 324-331, April 2007.
- V Hristidis, PJ Clarke, **N Prabakar**, Y Deng, JA White, RP Burke: ‘A Flexible Approach for Electronic Medical Records Exchange’. *Proceedings of the International Workshop on Health Information and Knowledge Management (HIKM)*, in conjunction with ACM CIKM, pp. 33-40, 2006.
- Y Deng, SM Sadjadi, PJ Clarke, C Zhang, V Hristidis, R Rangaswami, and **N Prabakar**: ‘A communication virtual machine’. *Proceedings of the 30th Annual International Computer Software and Applications Conference (COMPSAC 2006)*, Chicago, pp. 521-531, Sep 2006.
- PJ Clarke, V Hristidis, Y Wang, **N Prabakar**, and Y Deng: ‘A Declarative Approach for Specifying User-Centric Communication’. *Proceedings of the International Symposium on Collaborative Technologies and Systems (CTS 2006)*, Las Vegas, pp. 89-98, May 2006.
- G Paschos, I Radev, and **N Prabakar**: ‘Image Content-Based Retrieval Using Chromaticity Moments’. *IEEE Trans. on Knowledge and Data Engg.* Vol. 15, No. 5, pp. 1069-1072, 2003.
- N Rishe, S-C Chen, **N Prabakar**, M Weiss, W Sun, A Selivonenko, and D Davis-Chu: ‘Terrafly: A High-Performance Web-Based Digital Library System for Spatial Data Access’,

*Proceedings of the 17th International Conference on Data Engineering*, Apr 2-6, Heidelberg, Germany, pp. 17-19, 2001.

- D Davis-Chu, **N Prabakar**, and N Rische: 'A System for Continuous, Real-Time Search and Retrieval of Georeferenced Objects', *Proceedings of the ISCA (International Society for Computers and Their Applications) 2nd International Conference on Information Reuse and Integration*, Nov 1-3, Honolulu, Hawaii, pp. 82-85, 2000.
- A Selivonenko, **N Prabakar**, N Rische, and D Davis-Chu: 'Dynamic Mosaicking of Heterogeneous Digital Images', *Proceedings of the ISCA (International Society for Computers and Their Applications) 2nd International Conference on Information Reuse and Integration*, Nov 1-3, Honolulu, Hawaii, pp. 86-90, 2000.
- **N Prabakar**, J Vidal, and Y Gu: 'A System for Interactive Visualization of Medical Images Over a TCP/IP Network', *Proceedings of the International Conference on Imaging Science, Systems, and Technology (CISST'2000)*, Jun 26 - 29, Las Vegas, pp. 137-142, 2000.
- D Davis-Chu, **N Prabakar**, and N Rische: 'Client-Server Based Real-Time Integration of Remotely Sensed and Digital Data', *Proceedings of the International Conference on Imaging Science, Systems, and Technology (CISST'2000)*, Jun 26 - 29, Las Vegas, pp. 499-505, 2000.
- **N Prabakar**, Q Jin, and N Rische: 'Variation Assessment of Large Entities Using Spatial Data', *Proceedings of the International Conference on Imaging Science, Systems, and Technology (CISST'2000)*, Jun 26 - 29, Las Vegas, pp. 571-576, 2000.
- **N Prabhakaran**, V Maddineni, and N Rische: 'Spatial Overlay of Vector Data on Raster Data in a Semantic Object-Oriented Database Environment', *Proceedings of the International Conference on Imaging Science, Systems, and Technology (CISST'99)*, Jun 28 - Jul 1, Las Vegas, pp. 100-104, 1999.
- **N Prabhakaran**, S Sridhar, and N Rische: 'A Two Phase Digital Ortho Photo Mosaicking System', *Proceedings of the International Conference on Imaging Science, Systems, and Technology (CISST'99)*, Jun 28 - Jul 1, Las Vegas, pp. 151-154, 1999.
- T Ho, E Alvarez, **N Prabhakaran**, D Barton, N Rische, and S Graham: 'Integration of a GIS and a Semantic Database System', *Proceedings of the International Conference on Geospatial Information in Agriculture and Forestry*, Jun 1-3, Orlando, pp. 629-636, 1998.
- N Rische, D Barton, **N Prabhakaran**, M Gutierrez, M Martinez, R Athauda, A Gonzalez, and S Graham: 'Landsat Viewer: A Tool to Create Color Composite Images of Landsat Thematic Mapper Data', *Proceedings of the International Conference on Geospatial Information in Agriculture and Forestry*, Jun 1-3, Orlando, pp. 529-536, 1998.
- N Rische, D Barton, **N Prabhakaran**, M Gutierrez, E Alvarez, R Athauda, J Rodriguez, and A Gonzalez: 'Landsat Data Visualization via the Internet', *Proceedings of the International Symposium on Spectral Sensing Research*, Dec 13-19, San Diego, 1997.
- **N Prabhakaran**, N Rische, and R Athauda: 'Tracking Hurricane Paths', *Proceedings of the Image Registration Workshop, NASA GSFC*, Nov 20-21, Maryland, pp. 357-360, 1997.
- **N Prabhakaran**, M Palakkat, and D Yang: 'Neural Network Based Auto Tag Identification System', *Proceedings of the IEEE International Conference on Systems, Man and Cybernetics*, Oct 12-15, Orlando, pp. 3582-3584, 1997.

- D Yang and **N Prabhakaran**: 'A Simplified Approach to Desktop 3D Scanning', *Proceedings of the International Conference on Imaging Science, Systems, and Technology (CISST'97)*, Jun 30 - Jul 3, Las Vegas, pp. 508-511, 1997.
- L Yan, W Sun, **N Prabhakaran**, S Guo, Y Deng, and N Rische: 'A Dynamic Hypermedia Model for Interactive Video', *Proceedings of the 2nd International Conference on Multimedia Information Systems*, Apr 3-5, Illinois, pp. 79-85, 1997.
- J Penagos, **N Prabhakaran**, and S Wunnava: 'An Efficient Scheme for Dynamic Signature Verification', *Proceedings of IEEE SOUTHEASTCON'96*, Apr 11-14, pp. 451-457, 1996.
- **N Prabhakaran**, P Sharma, and W Subbarao: 'Orientation Recognition of a Signature Pattern', *Proceedings of IEEE International Workshop on Emerging Technologies and Factory Automation*, Melbourne, Australia, Aug 11-14, pp. 11-14, 1992.
- **N Prabhakaran**, K Yen, and W Subbarao: 'Local and Distributed Intelligence Systems for Fault Tolerance', *Proceedings of the IEEE Southcon'92*, Orlando, FL, Mar 10-12, pp. 115-118, 1992.
- J Mookherje and **N Prabhakaran**: 'Spatial Decomposition of a Tumor into a Minimum Number of Spherical Components', *Proceedings of the 1992 ACM/SIGAPP Symposium on Applied Computing*, Kansas City, MO, Mar 1-3, pp. 988-992, 1992.
- W Sun, **N Prabhakaran**, and X Zhou: 'Automatic Identification of Semantic Integrity Constraints in Object-Oriented Databases', *Proceedings of 1991 IEEE International Conference on Systems, Man, & Cybernetics*, Charlottesville, VA, Oct 13-16, pp. 1667-1672, 1991.
- **N Prabhakaran**, L Wang, and J Mookherje: 'An Efficient Radiation Treatment of a Brain Tumor', *Proceedings of IEEE TENCON International Conference*, New Delhi, Aug 28-30, Vol. 2, pp. 75-80, 1991.
- M Palaniswami, **N Prabhakaran**, S Thacore, and W Subbarao: 'Signature Identification using Neural Networks', *Proceedings of IEEE TENCON International Conference*, New Delhi, Aug 28-30, Vol. 2, pp. 149-152, 1991.
- R Ghaly and **N Prabhakaran**: 'A rule-based object-oriented approach for modeling real-time systems', *Journal of Information and Software Technology*, Vol. 10, No. 4, pp. 250-258, 1991.
- **N Prabhakaran**, WV Subbarao, and J Penagos: 'An Expert System Approach for Optical Image Processing and Analysis', *Proceedings of 7-th IASTED International Conference on EXPERT SYSTEMS Theory & Applications*, Los Angeles, Dec 12-15, pp. 5-6, 1990.
- WV Subbarao, F Gonzalez, and **N Prabhakaran**: 'Micro Computer Network Based Image Storage and Retrieval System (ISRS) Development', *Proceedings of ISMM International Multiconference on Microcomputer Applications*, Los Angeles Dec 12-15, pp. 16-18, 1990.
- L Wang and **N Prabhakaran**: 'Optimal Orientation of a set of Paths for the Radiation Treatment of a Tumor', *Proceedings of the 9-th Southern Biomedical Engineering Conference*, Miami, Nov 17-18, 1990.
- **N Prabhakaran** and L Wang: 'Synthesis of an Arbitrary Cross Sectional View from 2-D CTScan Images', *Proceedings of the 12-th Annual International Conference IEEE Engineering in Medicine and Biology Society*, Philadelphia, Nov 1-4, pp. 1239-1240, 1990.

- R Ghaly and **N Prabhakaran**: 'A Knowledge-Based Approach to Real-Time Systems', *Proceedings of the 28-th ACM SERC*, Greenville, South Carolina, Apr 18-20, pp. 198, 1990.
- J Mookherje and **N Prabhakaran**: 'An Object-Oriented Representation of Semantic and Graphic Interrelationships', *Proceedings of the 28-th ACM SERC Greenville*, South Carolina, Apr 18-20, pp. 199, 1990.
- **N Prabhakaran**: 'The Outstanding Problem for Today's Database Technology', *Proceedings of PARBASE-90: International Conference on Databases, Parallel Architectures, and their Applications*, IEEE Computer Society Press, pp. 268-273, 1990.
- **N Prabhakaran**, D Tal and M Lenart: 'A Semantic Database Approach for Tilings', *Proceedings of PARBASE-90: International Conference on Databases, Parallel Architectures, and their Applications*, IEEE Computer Society Press, pp. 447-452, 1990.
- R Ghaly and **N Prabhakaran**: 'Modeling of a Real-Time Object-Oriented Database Schema', *Proceedings of the 2nd Annual Conference on Productivity through Computer Integrated Engineering & Manufacturing*, Orlando, Florida, Nov 13-15, pp. 83-86, 1989.
- **N Prabhakaran** and E Falkenberg: 'Representation of dynamic features in a conceptual schema', *Australian Computer Journal*, Vol. 20. No. 3. pp. 98-104. 1988.
- **N Prabhakaran** and G Sen: 'THERMBAR: A Pascal program for calculating pressure and temperature of mantle rocks', *International Journal of Computers & Geosciences*, Vol. 14, No. 4, pp. 527-539, 1988.
- D Tal, N Rische, D Barton and **N Prabhakaran**: 'High-throughput Highly-parallel Database System', *Proceedings of the 26-th ACM SERC*, Mobile, Ala. Apr 20-22, pp. 682-686, 1988.
- **N Prabhakaran** and M Palaniswami: 'A Semantical Database for Analysis and Control of Power Systems', *International Journal of Computers & Electrical Engineering*, Vol. 11, No. 4, pp. 233-238, 1984.
- **N Prabhakaran** and D Vermeir: 'On the Generation of Database Schemata', *Australian Computer Journal*, Vol. 15, No. 3, pp. 91-102, 1983.
- **N Prabhakaran** and D Vermeir: 'A Compiler for Conceptual Schemata', *10th Australian Computer Conference Proceedings*, Melbourne, Australia, Sep 26-30, pp. 284-296, 1983.

#### PATENT

- J-H Kim, **N Prabhakaran**, SS Iyengar, L Castillo, J Carvajal, E Almario and G Vietri, "Systems for controlling a movable object", US Patent No. 9,934,613, Apr 3, 2018.

#### FUNDED RESEARCH

- "UniversityCity Prosperity Project" proposal to U.S. Department of Transportation with N. Rische  
Role: Co-PI  
Amount: \$11.4M  
Period: 2014-2016
- "High Performance Database Management with Application to Earth Science" proposal (IRA cont) to NASA with N. Rische

Role: Co-Investigator  
Amount: \$1.5M  
Period: 1999-2002

- “High Performance Connection for Florida International University” proposal (I2) to NSF with N. Rishe  
Role: Senior Investigator  
Amount: \$253.3K  
Period: 1999-2001
- “Spatial Data Visualization Using a Heterogeneous Distributed Database Management System” proposal ("KDI Supplement" to CREST) to NSF with N. Rishe  
Role: Senior Investigator  
Amount: \$510K  
Period: 1998-2001
- “Active Database Management Systems for Monitoring Complex Situations” proposal (Operational Phase) to Florida High Technology and Industry Council with U.S. Chakravarthy.  
Role: Co-Investigator  
Amount: \$4,200  
Period: 1991-1992
- “Computer Modeling of Chemical and Thermal Processes in Earths Mantle” proposal to Academic Affairs, FIU  
Role: Principal Investigator  
Amount: \$10,618  
Period: 1990 Summer-B
- “High-throughput Parallel Database Machine” proposal to Florida High Technology and Industry Council with N. Rishe, D. Barton and D. Tal.  
Role: Principal Investigator  
Amount: \$26,000  
Period: 1990-1991
- “High-throughput Highly-parallel Database System” proposal to Florida High Technology and Industry Council with N. Rishe and D. Barton.  
Role: Co-Investigator  
Amount: \$20,000  
Period: 1988-1989

## OTHER PROFESSIONAL ACTIVITIES AND PUBLIC SERVICE

### **Professional Service:**

- Reviewer for 28th International Conference on Computers and Their Applications, 2013
- Reviewer for Second International conference on Multimedia Information Systems, 1997
- Reviewer for IEEE Computer Journal and Transputer Communications (1994).
- Reviewer for Tools USA'93 conference

- Chair of the session on *Fault Tolerant/Prediction/Correction Schemes (FTPC) for Industrial Automation and Communications*, IEEE Southcon'92 at Orlando, FL in March 1992.
- Chair of the session on *Expert Systems I*, ACM/SIGAPP Symposium on Applied Computing at Kansas City, MO in March 1992.
- Chair of the session on *Neural Network Theory*, IEEE Region 10 International Conference at New Delhi in August 1991.
- Co-Chair of the publicity committee and a member of the organizing committee of *PARBASE-90: International Conference on Databases, Parallel Architectures, and Their Applications* (Miami, March 1990):
  - the publicity for the conference in journals
  - call for paper announcement preparation, typesetting, printing and distribution
- Programming Committee member of PARBASE-90 conference.
- Chair of the panel session on *The Outstanding Problem for Today's Database Technology*, PARBASE-90 conference at Miami in March 1990.
- Chair of the paper session on *Databases: The Logical Level/Languages and Design*, PARBASE-90 conference at Miami in March 1990.
- Judge for the ACM Southeast Regional Programming Contest (Miami, November 1989).
- Responsible for choosing a programming problem for the contest and evaluating about 40 teams from several universities in the Southeast region of the nation.
- Reviewer for Western Multiconference Object-Oriented Simulation, 1991.
- Reviewer for the following Journals:
  - ACM Transactions on Database Systems
  - IEEE Computer
  - Information Systems
  - Information and Software Technology
- Reviewed the following Books:
  - Principles of Relational Database Systems, Mishra, Prentice-Hall, Englewood Cliffs, 1989
  - Integrated Databases: Concepts, Design and Practice, E. Ozkarahan, Prentice-Hall, Englewood Cliffs, 1988

### School wide:

**Undergraduate Program Director:** 2020 – present

Coordinate all seven undergraduate programs in the School of Computing.

**Assessment Coordinator:** 2020 – present

Coordinate ABET Accreditation for the Bachelor of Science program in Computer Science.



**Human Resources Committee Chair:** 1992 – 1993, 1994 – 1995, 1999 – 2001

Responsible for requesting nominations for promotion/tenure, conducting evaluations of the Director and Associate Director, and school committee elections, and preparing evaluation letter for the Director.

**Equipment Committee Chair:** 1993 – 1994, 2002 – 2004

Responsible for the allocation of new computers to faculty members, prioritize faculty requests for resources, and to assign old computers for cluster nodes.

**Graduate Committee Chair:** 1996 – 1999

Responsible for evaluating graduate admission applications, short listing graduate applicants for assistantships, and planning and coordinating qualifier exam.

**Graduate Advisor:** 1996 – 1999

Responsible for advising all graduate students and potential graduate applicants, and verifying student files for graduate certification.

**Subject area coordinator:** 2003 - present

Responsible to review and revise the syllabi, update textbooks, and review instructor evaluations & students' feedback, and write assessment summary for the courses.

IT Database area: 2003 - present

COP-4703 (Information Retrieval and Storage Concepts)

CTS-4408 (Database Administration)

COP-4722 (Survey of Database Systems)

IT Systems area: 2003 - present

CGS-3767 (Computer Operating Systems)

COP-3348 (Introduction to Using Unix/Linux Systems)

COP-4343 (Unix System Administration)

CS Computer organization area: 2010 - present

CDA-3103 (Fundamentals of Computer Systems)

CDA-4101 (Structured Computer Organization)

COP-4610 (Operating Systems Principles)

**Undergraduate Committee Chair:** 2006 – 2012, 2014 – 2020

Responsible for the undergraduate curriculum of both Computer Science and Information Technology programs including review of new courses, degree programs, and dependencies among courses, and make recommendations on assessment reports.

In Spring 2010, restructured the IT Curriculum to meet ABET requirements and in Fall 2011 coordinated several curriculum changes to the CS curriculum.

**Human Resources Committee Member:** 2010 – 2013

Responsible for assisting promotion/tenure candidates in their file preparations, and in conducting evaluations of the Director and Associate Director, and school committee elections.

**Infrastructure Committee Chair:** 2012 – present

Responsible for evaluation of research labs, instructional and student access labs, and faculty technology needs, and allocate available resources appropriately.

**Annual Awards Committee Member:** 2012 – 2013

Establish procedures for evaluating performances of outstanding faculty and evaluate faculty for teaching, research, service, and mentorship awards, and submit the recommendation to the administrators.

**Coordinator for Professional Masters in Information Technology:** 2012 – 2017

Plan course offerings, class schedules, and identify instructors for each course offering for the new Professional MS in Information Technology.

**Instructor Recruitment Committee Chair:** 2012 – 2016

Evaluate twenty applicants, conduct online and on-campus interviews for selected applicants, and make a recommendation of ranked list of candidates for instructor positions.

**Mentor for the Senior Project “User-Controlled Subliminal Image Display”:** 2013

Mentoring a team of CS senior students in developing a subliminal visual system on Windows and a graphical integrated development environment to create subliminal images.

**College wide:**

**College Curriculum Committee Representative for SCIS:** 2008 - 2013

Coordinated and submitted the following curriculum proposals on behalf of SCIS:

- Twenty two new courses
- New graduate program (MS in IT)
- Program changes to BS in CS, SDD Track, BS in IT, PhD in CS, MS in TCN, MS in IT
- Twenty seven course changes

**College Curriculum Committee Vice Chair:** 2009 - 2010

Coordinated the curriculum interaction for the college with the Faculty Senate office

**College Awards Committee Chair:** 2013 - 2015

Conducted the nomination and review processes for the college faculty awards. Further, recommended guidelines for the college staff awards.

**College Faculty Council Vice Chair:** 2014 - 2015

Represented issues related to academic units at the faculty council.

**College Curriculum Committee Chair:** 2010 – 2013

Created a web site for the College Curriculum Committee at <http://users.cis.fiu.edu/~prabakar/ccc> and streamlined the meeting process. Further, this enabled transparency of the entire committee operations (documents, minutes, resolutions) for the entire college and drastically cut down the number of paper copies made for the meetings.

### **University wide:**

#### **Faculty Advisor for Panther Linux User Group: 2009 – 2016**

Established the student Linux club in Summer 2009

Facilitated students to present about Linux features in several presentations

Organized Linux Installation Festivals to promote Linux system to new users in FIU

I gave two presentations on “Automated Backup for Linux Systems” (3/31/11) and on “Virtual Linux” (9/6/11).

Activities of PLUG are disseminated through the google group [pantherlug@googlegroups.com](mailto:pantherlug@googlegroups.com) and the web site <http://plug.cis.fiu.edu>

#### **Undergraduate Studies Global Learning Foundation Courses Committee Chair: 2010 – 2012**

Created a web site for the Global Learning Foundation course proposals at <http://users.cis.fiu.edu/~prabakar/glfcc> and coordinated feedback from the committee members and authors of the course proposals and got five Global Learning courses approved.

#### **University Curriculum Committee Chair: 2010 – 2012**

- Corrected the security feature of curriculum proposal forms (pdf files) that are fillable and now saveable using the standard Acrobat Reader. This simplifies the process of correcting any error in curriculum proposals.
- Designed curriculum bulletin calendars for 2011-2012 and 2012-2013.
- For each university curriculum bulletin,
  - Reviewed all UG and grad curriculum proposals
  - Scheduled hearing for all new programs/majors/tracks
  - Chaired the hearing for all eight colleges and coordinated revisions to proposals
  - Presented curriculum related motions at the Faculty Senate meetings
- Initiated the Paperless Curriculum Project in coordination with the Vice Provost of Academic Planning, UTS IT Specialist, Faculty Senate Administrative Assistant, and Registrar Coordinator.

#### **University Curriculum Committee Member: 2012 – 2013**

Participate in curriculum proposal reviews and represented the College of Engineering and Computing in six curriculum bulletin hearings and special curriculum meetings.

#### **Faculty Senator: 2011 – 2013**

Represent the faculty of College of Engineering and Computing at the Faculty Senate meetings

**Faculty Senate Nominating Committee Member: 2011 – 2013**

Coordinated in identifying suitable faculty for Faculty Senate positions (chair, vice-chair, secretary, and subcommittee members) and also conducted elections for important positions.

**Judge for FIU Graduate Student Scholarly Forum: Mar 28, 2011 and Feb 27, 2012**

Each year judged eight graduate student research presentations at the forum and provided assessment scores.

**Community wide:**

**Judge for South Florida SECME Olympiad VEX Robotic Competition**

Judged 11 VEX Robotic matches on Jan 26, 2013 at Miami-Dade College, North Campus

**Judge for First Tech Challenge Robotic Competition**

Reviewed and evaluated 12 Robotic projects on Jan 19, 2013 at Mast Academy, Miami

**Judge for ACM High School Programming Competition**

Reviewed and evaluated 12 teams on Mar 18, 2005 and 24 teams on Mar 24, 2012.

**Judge for South Florida Regional Science and Engineering Fair**

Reviewed and evaluated 24 Science projects on Jan 22, 2011 and Jan 21, 2012  
Miami-Dade College, North Campus

**Open Access Online Tutorial for Computer Science and Engineering Courses**

Compiled online video lectures for most of the computer science and engineering related courses and made them available at <http://motivatemyself.org> for all students in College of Engineering and Computing in Fall 2010 and in Fall 2011.

**Raised fund (\$1,245) for Haiti Earth-quake Relief Efforts**

By participating ING Marathon in Jan 2010 ( <http://motivatemyself.org/running> )

**Raised fund (\$1,175) for Children in Africa**

By participating ING Marathon in Jan 2011 ( <http://motivatemyself.org/running> )