



Dr. Y .K. Sundara Krishna
M. Tech, Ph. D., MISTE, MASMS

Professor

Department of Computer Science
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1. Educational Qualifications:

S.NO.	Examination Passed	Board/University	Division
1	Ph. D. (C.S.E)	Osmania University, Hyderabad	--
2	M.Tech (C.S.E)	Osmania University, Hyderabad	2002 FIRST WITH DISTINCTION
3	BTech (C.S.E)	Jawaharlal Nehru Technological University, Hyderabad	1996 FIRST
4	Special Diploma in Electronics with Specialization in COMPUTER ENGINEERING	State Board of Technical Education & Training, A.P.	1991 FIRST WITH DISTINCTION
5	Intermediate (M.P.C)	Board of Intermediate Education, A.P.	1987 FIRST
6	S.S.C.	Board of Secondary Education, A.P.	1985 FIRST

2. Experience - 26 years

Dr. Y.K. Sundara Krishna qualified in Ph.D in Computer Science & Engineering from Osmania University, Hyderabad. He is working as Professor in the Department of Computer Science, Krishna University, Machilipatnam.

His research interests are Mobile Computing, Service Oriented Architecture and Geographical Information Systems and Supervising five research scholars.

He is having 26 years of practical work experience in the areas of Computing Systems including Developing of Simulators for Distributed Dynamic Cellular Computing Systems, Applications of Embedded & Win32 clients, Maintenance of Multi-user System Software. & Win32 clients, Maintenance of Multi-user System Software. and Designing of Web Systems

He is also working with International Telecommunication Union (ITU)-T 1721 recommendations- Signaling requirements and protocols for IMT-2000 & General overview of NGN, ITU and International Telecommunications Union (ITU): Y. 2018 recommendation series Y: Global Information Infrastructure, Internet Protocol aspects and NGN.

Member of Editorial Boards

- Associate Editors for International Journal of Image, Graphics and Signal Processing (IJIGSP)

Invited Lectures as Resource Person

- Invited Talk on “TCP/IP for New Generation Networks”, 13 October 2015, organized by P.B. Sidhartha Science and Arts College, Vijayawada, A.P., India.
- Keynote address on “Next Generations Robotics: Programming Challenges” at National Conference on “Intelligent Robotics”, 21-22 August 2015, KBN College, Vijayawada
- Keynote address on “ Research Challenges and Issues in Big Data and Cloud Computing” organized by Department of Computer Science, Yogivemana University, Kadapa, A.P., India.
- Keynote address on “Ethical Hacking- An Inevitable Tool For A Secured Organization (NSEH-2014)”, December 21-13, 2014, KBN College, Vijayawada, India.
- Invited Talk on “Security Aspects in Next Generation Network Systems: A Solution in Social Domain” at National Seminar on “Cyber Security with special Focus on Cyber Crimes and Cyber Laws(NSCS-2014)”, 15-16 November ,2014, P.B. Siddhartha College of Arts and Sciences, Vijayawada, India.
- Invited Talk on “Information and Communication Technologies(ICTs) at National Seminar on “Information and Communication Technologies (ICTs) in making a Healthy Information Society with Special Reference to use of ICTs in Educational Technology” , Andhra Loyall College, 11th August 2014,Vijayawada,India
- Invited Talk on “Applications of Mathematics in Design of Object Oriented Systems” at National Seminar on “The Role of Mathematics and Information Sciences in Design of Sophisticated Systems” , Andhra Loyall College, 20th August 2014,Vijayawada,India
- Guest Lecture on “Mobile Computing and Its Applications” at PVP Siddhartha Engineering College, on November 21, 2013, Vijayawada, A.P., India.
- Delivered Key Note address at International Conference on Computing @ NECICC2K13 on July 12-13, 2013, Narasaraopeta, A.P., India.
- Invited Talk on “ Research and its Significance” at ESWAR QUEST-2010, January 23, 2010, at Eswar College of Engineering, Narasaraopet, Guntur, A.P., India
- Invited Talk on “4G Technologies and Challenges “ at National Seminar,2010 at Department Computer Science and Engineering, Jawaharlal Technological University College of Engineering, Hyderabad, A.P., India
- Invited Talk on “ 4G Technologies” at National Seminar on “ Emerging Trends in Business Management and Challenges of 21st Century Corporate Sector”, March 12-13, 2009 at ,St. Joseph’s PG College , King Koti Road, Hyderabad, A.P., India
- Invited Talk on “Network Simulation using NS2 and other Simulators” at National Seminar on “Network Simulations using OPNET and NS-2 Tools” at V.R. Siddhartha Engineering College, Vijayawada.

Academic & Administrative Responsibilities

i. Working as Professor in Department of Computer Science , Krishna University

Academic & Administrative Responsibilities

- ◆ Principal i/c, Krishna University Campus College from 16.09.2012 to till date
- ◆ Dean i/c, Faculty of Engineering and Technology from 22.11.2012 to till Date
- ◆ Member of First Executive Council of Krishna University
- ◆ Member of Academic Senate, Krishna University
- ◆ Member of Planning and Monitoring Board of Krishna University
- ◆ Member, University Research Council, Krishna University
- ◆ Chairman, Faculty Research Council, Department of Computer Science, Krishna University
- ◆ Chairman, Department Research Council, Department of Computer Science, Krishna University
- ◆ HOD i/c, Department of Computer Science from 24.11.2009 to 2009 to 02.06.2015
- ◆ Chairman, PG Board of Studies in Computer Science, Krishna University from 09.05.2012 to till date
- ◆ Member of UG Board of Studies in Physical Sciences, Krishna University from 11.05.2012 to till date
- ◆ Technical Nodal Officer , National Knowledge Network, Krishna University from 12.01.2011 to till date
- ◆ Coordinator of Examinations, Krishna University from 26.02.2010 to 01.08.2010
- ◆ Academic Coordinator , Krishna University 20.06.2011 to 15.09.2012
- ◆ Controller of Examinations, Krishna University from 02.08.2010 to 07.12.2010 & from 15.04.2013 to till date
- ◆ Director of Research Admissions from 20.06.2011 to 15.09.2012
- ◆ Coordinator, Center for Research Studies 05.04.2014 to 24.05.2015

- ◆ Central Purchase Committee Member, Krishna University August 2011 to till date
- ◆ Convener, Anti-Ragging Committee, Krishna University
- ◆ University Representative of Academic Council of Autonomous Colleges of Krishna University
 - PB. Sidhartha Science & Arts College, Vijayawada from 14.02.2011 to 13.02.2013
 - SDMSM Kalasala, Vijayawada from 20.07.2010 to 19.07.2012 & 23.11.2015 to two years.
 - Maris Stella College, Vijayawada from 08.01.2010 to 07.01.2012, 08.01.2012 to 07.01.2014 and 19.01.2015 to two years
 - Andhra Loyola College, Vijayawada from 12.02.2011 to 11.02.2011, 05.03.2013 to 04.03.2015 and 18.03.2015 to two years
 - Nobel College, Machilipatnam from 12.02.2011 to 11.02.2013, 04.03.2013 to 03.03.2015 and 20.02.2015 to two years
 - KBN College, Vijayawada from 21.01.2012 to 20.01.2014 and 07.02.2014 to two years
 - AG& SG College, Vuyyur from 05.05.2012 to 04.05.2014 & 25.09.2014 to two years
- ◆ Governing Body member , Montessori Mahila Kalasala, Vijayawada
- ◆ Governing Body member , Satavahana College, Vijayawada 13.11.15 to two years.

Member of Committees

- Treasurer, Krishna University Inter Collegiate Youth Festivals 2012,2013 & 2014
- Treasurer, First & Second Convocations of Krishna University

Seminars & Workshops Organized

- Organized a Seminar on “Recent Trends in Information and Communication Technologies”, 7-8, January 2011 as Chairperson and Convener.
- Organized a Seminar on “Recent Trends in Information and Communication Technologies”, 30-31 March 2015 as Convener

- ii. **Worked as Associate Professor & Head of the Department in CSE at Sri Kalahasteeswara Institute of Technology, A Government owned Self Financed Engineering College under the Management of Sri Kalahasteeswara Swamivari Devasthanam, Sri Kalahasthi since April 2004 to October 2009**

Academic & Administrative Responsibilities

- Principal Incharge
 - HOD of CSE
 - Establishment of three Computer Labs with 120 Computer Systems along with networking for online examination system
 - Establishment of Embedded Systems Lab
 - Campus Networking with 1 Mbps internet facility and Static Web Server at the Institute
 - Successful installation and running of Online Examination Systems
 - Officer, Examination - June 2007 to February 2008
- iii. **Worked as Assistant Professor in the Department of Computer Science and Engineering, Vasavi College of Engineering, Hyderabad from December 1999 to April 2004.**
- Active team member of the Department of CSE for successful completion of NBA accreditation process
 - Preparation of Lab manuals for Operating systems Lab, Distributed systems Lab, Visual Programming Lab & C++ Programming Lab
- iv. **Worked as Lecturer in the Department of Computer Science and Engineering, Gokaraju Ranga Raju Institute of Engineering and Technology, Hyderabad from November 1997 to December 1999**
- Successful implementation of Electronic Teaching Methodologies
 - Preparation of Class notes and Lab records with illustrations for C-Programming
- v. **Worked as Lecturer in the Department of Computer Science and Engineering, Deccan College of Engineering and Technology, Hyderabad from April 1997 to November 1997**
- Additional charge as Systems Manager
- vi. **Worked as Senior Customer Support Engineer in M/S UK Infotech Services, Hyderabad from June 1996 to April 1997**

- vii. **Worked as Senior Customer Support Engineer in M/s Advanced Micro Computer Services (WIPRO FRANCHISE) , Hyderabad from July 1991 to May 1996**
- viii. **Worked as Apprenticeship Trainee in E.C.I.L. at Computer Manufacturing Group Hyderabad from October 1990 to February 1991**

International Publications:

- Ch. N. Manisha, E. Sreenivasa Reddy and Y. K. Sundara Krishna. "A Hierarchical Pre-processing Model for Offline Handwritten Document Images". *International Journal of Research Studies in Computer Science and Engineering*, Vol. 2, Issue. 3, pp. 41-45, March 2015.
- Ravikiran, P. Sundara Krishna, Y. K.. "Direction Sensitive Approach for Context Based Mobility Model". *International Journal of Research Studies in Computer Science and Engineering (IJRSCSE)*, 2(3), pp.46-48.,March 2015
- S. Sai Kumar, Dr. Y. K. Sundara Krishna published a paper titled "Mobility Management for Next Generation Mobile ID" in International journal of Research Studies in Computer Science and Engineering, ISSN: 2349-4859, Volume-2 Issue 3, March 2015, pp 70-76.
- P.J.S. Kumar, V. Venkata Krishna, Y.K. Sundara Krishna "Classification of Metals using Texture Features", International Journal of Emerging Engineering Research and Technology, ISSN Print 2349-4395,ISSN Online 2349-4409, pp 120-123, Volume-3, Issue-4(A), , March 2015.
- S. Sai Kumar, Dr. Y. K. Sundara Krishna published a paper titled "Mobility Management for Next Generation Mobile ID" in International journal of Research Studies in Computer Science and Engineering, ISSN: 2349-4859, Volume-2 Issue 3, March 2015, pp 70-76.
- Ch. Ratnajyothi,, Y.K. Sundara Krishna,, V. Srinivasa Rao, "Adaptive Unsupervised Abnormal Behavior Detection for Real-time Surveillance using optical flow Method", International Journal of Emerging Engineering Research and Technology, ISSN Print 2349-4395,ISSN Online 2349-4409, pp 30-33, Volume-3, Issue-4(A), , March 2015.
- B.V. Praveen Kumar, Y.K. Sundara Krishna, "Context Based Performance Review of AODV and DSDV Protocols in Adhoc Community", International Journal of Emerging Engineering Research and Technology, ISSN Print 2349-4395,ISSN Online 2349-4409, pp 18-24, Volume-3, Issue-4(A), , March 2015.
- Y. Madhavi Latha K. Rajasekara rao, Y.K. Sundara Krishna, "A Review of Different Techniques on Preserving Data Mining, "International Journal of Emerging Engineering Research and Technology, ISSN Print 2349-4395,ISSN Online 2349-4409, pp 1-7, Volume-3, Issue-4(A) , March 2015.
- Sujatha Kamepalli, Raja Sekhara Rao Kurra, Sundara Krishna Y.K., "Infrequent Pattern Mining from Weighted Transactional Data Set", International Journal of Research Studies in Computer Science and Engineering, Academicians' Research Center, ISSN Print: 2349-4840, ISSN: 2349-4859, pp 1-5, Volume-2, Issue-3, March 2015.
- M. Ravi Kumar, Y.K. Sundara Krishna, " Service Oriented Smart City Management Framework", International Journal of Research Studies in Computer Science and

Engineering, Academicians' Research Center, ISSN Print: 2349-4840, ISSN: 2349-4859, pp 33-37, Volume-2, Issue-3, March 2015.

- Y.K. Sundara Krishna, G.K. Mohan Devarakonda, "A Survey on Architecture of Mobile Operating Systems: Challenges and Issues", International Journal of Research Studies in Computer Science and Engineering, Academicians' Research Center, ISSN Print: 2349-4840, ISSN: 2349-4859, pp 73-76, Volume-2, Issue-3, March 2015.
- A. Srinivasa Rao, Y.K. Sundara Krishna, V. Venkata Krishna, " Image Retrieval Based on Structural and Statistical Methods of Texture", International Journal of Research Studies in Computer Science and Engineering, Academicians' Research Center, ISSN Print: 2349-4840, ISSN: 2349-4859, pp 80-87, Volume-2, Issue-3, March 2015.
- Josyula Siva Phaniram, G.P. Saradhi Varma, Y.K. Sundara Krishna, "Amalgam Intellectual Inteferece Revealing System", International Journal of Research Studies in Computer Science and Engineering, Academicians' Research Center, ISSN Print: 2349-4840, ISSN: 2349-4859, pp 95-98, Volume-2, Issue-3, March 2015.
- Ch. N. Manisha, E. Sreenivasa Reddy and Y.K. Sundara Krishna. "Rule based recognition of printed Telugu numerals", Proceedings of International Conference on ACE-2014, IDES, Tata McGrew Hill Education Professional, pp. 143-151, December 2014.
- Ch. N. Manisha, E. Sreenivasa Reddy and Y.K. Sundara Krishna. "A Study on Recognition Methods of Telugu Numerals and Characters", *International Journal of Emerging Technology in Computer Science and Electronics*, Vol. 11, Issue 5, pp. 81-86, ISSN: 0976-1353, November 2014.
- S. Sai Kumar, Dr. Y. K. Sundara Krishna published a paper titled "Next Generation Mobile ID for Generalized Mobility" in International journal of Emerging Technology in Computer Science and Electronics, ISSN: 0976-1353, Volume-11 Issue 5, November 2014, pp 69-71.
- Y.K. Sundara Krishna, " Mobility Management in NGN using NGNMID", International Journal for Development of Computer Science & Technology(IJDCST), ISSN 2320-7884(Online), ISSN 2321-0257(Print), 2014.
- Ch.Suresh Babu, Y. K. Sundara Krishna, "Service Paradigms for Next Generation Networks", International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Page no. 97-99, Volume 2, Issue 7A, August 2014.
- P. Ravi Kiran, Y.K. Sundara Krishna,. (2014). "TOPSIS method for Handover Decision in Next Generation Networks". *International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE)*, 11(5), pp.72-76., ISSN: 0976-1353.
- P. Ravi Kiran, Y.K. Sundara Krishna, (2014). "Path Guiding Algorithm for Context Based Mobility Model", Proceedings. of 2014 International Conference on Communication and Network Technologies, Ed. IEEE Madras Section, pp.38-41.
- K.LakshmiNadh, Y.K.Sundara Krishna and K.Nageswara Rao "Feedback enabled transmission control protocol for next generation networks" International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 13 (2015) pp 33211-33214.

- K.LakshmiNadh, Y.K.Sundara Krishna and K.Nageswara Rao “Dynamic Channel Allocation in Wireless TCP using BAWTCP” International Journal of Emerging Engineering Research and Technology ISSN Print 2349-4395, ISSN 2349-4409 Volume-3, Issue-4(A).
- P. Ravi Kiran, Y.K. Sundara Krishna,, ”Effective Utilization of Access Networks of NGN using Rough Sets”, Conference Proceedings of the 1st International Conference on Rough Sets and Knowledge Technologies-2014”, 9-11 November 2014, Elsevier, ISBN-978-935-107298-0 Department of Computer Science and Engineering, Jawaharlal Nehru Technological University, Hyderabad, India..
- K LakshmiNadh, Y. K. Sundara Krishna, K.Nageswara Rao, “Acknowledgement Time Delay approach to optimize TCP Performance in Hybrid Network Systems” ,International Journal of Computer Applications ,Vol 102-No 8,Page No 5-11, September 2014,ISSN No: (0975 – 8887) , impact factor 0.791.
- S. Siva Nageswara Rao, Y. K. Sundara Krishna, K.Nageswara Rao,“An Elliptical Routing Protocol for Wireless Mesh Networks: Performance Analysis”, International Journal of Computer Applications ,Vol 102-No 8,Page No 29-34, September 2014,ISSN No: (0975 – 8887) , impact factor 0.791.
- Chinta Naga Manisha, E. Sreenivasa Reddy, Y. K. Sundara Krishna, "A Survey of Image Retrieval Systems", International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Volume 1, Issue 7A, August 2014, pp. 13-17, ISSN: 2347-3.
- P. Ravi Kiran, Y. K. Sundara Krishna, "Approaches for Network Selection in Vertical Handover of Next Generation Networks (NGN)", International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Volume 1, Issue 7A, August 2014, pp. 18-24, ISSN: 2347-307X.
- M. Ravi Kumar, Y. K. Sundara Krishna, "Service oriented Architecture for Next Generation Networks', International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Volume 1, Issue 7A, August 2014, pp. 30-35, ISSN: 2347-307X.
- Ch. Ratna Jyothi, V. Srinivasa Rao, Y. K. Sundara Krishna, “Fuzzy Segmentation of Brain MRI Tensor Image”, International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Volume 1, Issue 7A, August 2014, pp. 36-39, ISSN: 2347-307X.
- S. Sai Kumar, Y. K. Sundara Krishna, "Mobile ID Structure for Next Generation Networks", International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Volume 1, Issue 7A, August 2014, pp. 70-76, ISSN: 2347-307X.
- Y. K. Sundara Krishna, Ch. Suresh Babu, "Service Paradigms for Next Generation Networks", International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Volume 1, Issue 7A, August 2014, pp. 97-99, ISSN: 2347-307X.
- A. Srinivasa Rao, Y. K. Sundara Krishna, V. V. Krishna, "Distributed Computing Algorithms for Mobile Computing Networks", International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Volume 1, Issue 7A, August 2014, pp. 114-117, ISSN: 2347-307X.
- P. Ravi Kiran, Y.K. Sundara Krishna “A Study Report on Authentication Protocols in GDM, GPRS and UMTS”, International Journal of Engineering Research and Development (IJERD), Volume 10, Issue 6, June 2014, pp. 58-64, e-ISSN: 2278-067X, p-ISSN: 2278-800X.

- P. Ravi Kiran, Y.K. Sundara Krishna "MIDP Based J2ME Driver for accessing MySQL from Mobile Devices", International Journal of Innovative Science, Engineering & Technology (IJSET), Volume 1, Issue 3, May 2014, pp. 164-168, ISSN: 2348-7968.
- P. Ravi Kiran, Y.K. Sundara Krishna "A Comparative study on Java Mobile Clients with Data Caching in Accessing Information Systems", International Journal of P2P Network Trends and Technology (IJPTT), Volume 8, May 2014, pp. 17-20, ISSN: 2249-2615.
- P. Ravi Kiran, Y. K. Sundara Krishna, "Context Based Mobility Model for Next Generation Networks", International Journal of Advanced Computational Engineering and Networking (IJACEN), Volume 1, Issue 10, Dec. 2013, pp.19-22, ISSN: 2320-2106, DOI: IJACEN-IRAJ-DOI-110.
- Ravi Kiran, P., Sundara Krishna, Y. K. , "Service Management Strategies for Next Generation Networks.", International Journal of Computer Engineering & Technology (IJCET), 4(5) pp.258-266, March 2015
- K. Lakshminath, Y.K. Sundara Krishna, K. Nageswara Rao, "Improving TCP Performance with Delayed Acknowledgments over Wireless Networks: A Receiver side solution", International Conference on Advances in Recent Technologies in Electrical and Electronics, ARTEE-2013, September 19-20,2013, Bangalore, India.
- S.Siva Nageswara Rao, Y. K. Sundara Krishna, K.Nageswara Rao, "Performance Evaluation of Routing Protocols in Wireless Mesh Networks" International Journal of Computer Applications ,ISSN: 0975–8887,Volume 68–No.7, April 2013.
- K.LakshmiNadh, Y. K. Sundara Krishna, K.Nageswara Rao, "The Solutions for Packet Reordering in TCP over Wireless Networks" International Journal of Computer Networks and Wireless Communications (IJCNCW), ISSN: 2250-3501 Vol.3, No2, April 2013.
- P. Ravi Kiran, Y.K.Sundara Krishna, "Network Selection in Next Generation Networks using Fuzzy Logic Controllers", International Journal of Data Modeling and Knowledge Management, Vol. 2, No.1, January-June 2012, ISSN: 2249-0507, pp 93-99.
- G. Lakshminarayana, K. Lakshmi Nadh, Y.K. Sundara Krishna , "A Robust TCP Schemes for RL : Detection and Differentiation", International Journal of Data Modeling and Knowledge Management, Vol. 2, No. 1, January-June 2012, ISSN: 2249-0507, pp 29-34.
- P. Rama Kishore, V.S.R.K. Sarma, Y.K. Sundara Krishna, "Educational Services Using Reliable Semantic Web", International Journal of Data Modeling and Knowledge Management, Vol. 2, No. 1, January-June 2012, ISSN: 2249-0507, pp 57-61.
- D. Vidyanadha Babu, P. Tulasi Krishna, Y. K. Sundara Krishna, "A Survey on Spatial Data Representation", International Journal of Information Technology, Engineering & Sciences, Vol. 2, No. 1, January-June 2012, ISSN: 2249-0515, pp 13-18.
- Ch. Suresh Babu, G. Parthasarathy Varma, Y .K. Sundara Krishna, "ANDROID, A Revolutionary Mobile OS - Issues and Challenges", International Journal of Information Technology, Engineering & Sciences, Vol. 2, No. 1, January-June 2012, ISSN: 2249-0515, pp 47-50.

- S. Siva Nageswara Rao, Y. K. Sundara Krishna, K. Nageswara Rao, “An Elliptical Routing Protocol for Wireless Mesh Networks”, International Journal of Information Technology, Engineering & Sciences, Vol. 2, No. 1, January-June 2012, ISSN: 2249-0515, pp 31-33.
- P. L. N. Prakash Kumar, N. Hari Prasad, Y. K. Sundara Krishna , “Modeling Service Oriented Architecture for Heterogeneous Smart Handoff Mobile”, International Journal of Software Engineering Research, Vol. 2 No.1-2, January-December 2012, ISSN: 2249-0523, pp 69-72.
- D. G. Krishnamohan, Y. K. Sundara Krishna, “SOA Based Geographical Mobile Applications”, International Journal of Software Engineering Research, Vol. 2 No.1-2, January-December 2012, ISSN: 2249-0523, pp 103-106.
- Y. K. Sundara Krishna, A. Vasudeva Sastry, V. D. Phani Kumar, “Solving Multiple Downloading Problem Using Globus Tool Grid”, International Journal of Software Engineering Research, Vol. 2 No.1-2, January-December 2012, ISSN: 2249-0523, pp 73-77.
- S. Chandra, Y. K. Sundara Krishna, “Hierarchical Mobile IPV6 in Network Simulator 2”, International Journal of Information System, Vol. 1 No. 1-2, January-December 2012, ISSN: 2248-7484, pp 15-25.
- M. Srinivasulu, Y. K. Sundara Krishna, “Tracking the Mobile Location by using GPS”, International Journal of Information System, Vol. 1 No. 1-2, January-December 2012, ISSN: 2248-7484, pp 39-42.
- Sd. Rizwana, S. Siva Nageswara Rao, Y. K. Sundara Krishna , “ An Efficient Route Recovery Approach in Wireless Mesh Networks”, International Journal of Advanced Computer Engineering and Architecture”, Vol. 2, No. 1, January-June 2012, ISSN: 2248-9452, pp 21-25.
- V. S. R. K. Sarma, M. Sitaram Kumar, Y. K. Sundara Krishna, “ Building a Telugu Thesaurus System”, International Journal of Advanced Computer Engineering and Architecture”, Vol. 2, No. 1, January-June 2012, ISSN: 2248-9452, pp 35-41.
- K. Lakshmi Nadh, K. Nageswara Rao, Y. K. Sundara Krishna, “ Proposed Solutions for Non-Congestion Events of TCP over Wireless Networks”, International Journal of Advanced Computer Engineering and Architecture”, Vol. 2, No. 1, January-June 2012, ISSN: 2248-9452, pp 65-68.
- K.LakshmiNadh, K.Nageswara Rao and Y.K.Sundara Krishna “A Review on Solutions for Packet Reordering in TCP” Science Academy Transactions on Computer and Communication Network (SATCCN) Vol. 1, No. 3, December 2011, ISSN: 2046-5157.
- S. Siva Nageswara Rao, Y.K. Sundara Krishna, K. Nageswara Rao, “A Survey: Routing Protocols for Wireless Mesh Networks” , International Journal of Research and Reviews in Wireless Sensor Networks (IJRRWSN), Science Academy Publisher, United Kingdom, Vol. 1, No. 3, September 2011, ISSN: 2047-0037.
- K.LakshmiNadh, K.Nageswara Rao,Y. K. Sundara Krishna, “A survey on Packet Reordering and Fast Retransmit Schemes for Transport Protocols”, International Journal of Research and Reviews in Computer Science (IJRRCS) Vol. 2, No. 3, June 2011.
- S. Siva Nageswara Rao, Y.K. Sundara Krishna, K. Nageswara Rao “A Survey of Design Issues for Routing Protocols in WMNs” , International Journal of Research and Reviews in Ad Hoc Networks (IJRRAN)” ,Vol. 1, No. 2, June 2011, ISSN: 2046-5106.

- S. Siva Nageswara Rao, Y.K. Sundara Krishna, K. Nageswara Rao “A Study of Routing Metrics for Wireless Mesh Networks” , International Journal of Research and Reviews in Wireless Communications (IJRRWC) ,Vol. 1, No. 2, June 2011 ISSN: 2046-6447 ,Copyright © Science Academy Publisher, United Kingdom.
- VSRK Sarma¹, M. Sitarama Kumar ², K. Mrithyumjaya Rao³ and Y.K.Sundara Krishna, “Comparative Analysis of SOA and Non-SOA for Building Complex Systems”, International Journal of Research and Reviews in Ad Hoc Networks Vol. 1, No. 1, March 2011.
- Y.K. Sundara Krishna, P. Premchand, C. Raghavendra Rao, “An Estimate for Mobile Location using Tracking Database”, Proceedings of RSPS-2008 International Conference, Vijayawada, India, January, 2008.
- Y.K. Sundara Krishna, C. Raghavendra Rao “Mobile Tracking Process: Look Ahead approaches”, Proceedings of ICORAID-2005-ORSI International Conference, Indian Institute of Science, Bangalore December 27-29 , 2005.
- Y.K. Sundara Krishna, C. Raghavendra Rao “ Mobility Management: An Object Tracking Approach”, Proceedings of ATM Interact Symposium 2001, International Conference, New Delhi, August 22-24, 2001 pp 26-32.

National Publications:

- P. Ravi Kiran, Y. K. Sundara Krishna, “Service Management Strategies for Next Generation Networks”, International Journal of Computer Engineering & Technology (IJCET), Vol. 4, Issue. 5, pp. 258-266, ISSN 0976 – 6367(Print) ISSN 0976 – 6375(Online).
- P. Ravi Kiran, Y.K. Sundara Krishna, “Load Efficient Handover Schemes for Terminal Mobility in Next Generation Networks (NGN)”, Proceedings of National Seminar on Algebra and Analysis-Gateway to modern Technology-AAGMT-2013, January 29-30, 2013 ISBN: 978-8-18-424835-7 , Department of Mathematics, Meenakshi College for Women, Kidambakkam, Chennai, India.
- Y.K. Sundara Krishna, C. Raghavendra Rao “ Load Distribution Strategies for Cell Servers”, Proceedings of IEIE Zonal Seminar on Emerging and Converging Communication Technologies, Visakapatnam, February 10-11,2007.
- Y.K. Sundara Krishna, Deepak Narayanam, C. Raghavendra Rao “Tracking Stations for Mobile Location”, Proceedings of CSI National Conference, Hyderabad, December 11-12, 2001 pp 70-78.

International Presentations

- K. Lakshminath, Y.K. Sundara Krishna, “ Minimal Infrequent Weighted Item Set Mining”, 24 May, 2015 , International Research Conference on “ Electrical, Electronics and Computer Engineering(ICEECE)”, organized by Institute of Research Journals, Bangalore.
- S. Siva Nageswara Rao, Y. K. Sundara Krishna, K.Nageswara Rao, An Active Topology based Routing approaches for Wireless Mesh Networks, International Conference on Electrical, Electronics, Signal, Communication and Optimization (EESCO-2015) held on 24 and 25 Jan 2015, by IEEE Explore 978-1-4799-7678-2/15.

- P. Ravi Kiran, Y.K. Sundara Krishna,, “Effective Utilization of Access Networks of NGN Using Rough Sets” , 9-11 November, 2014, International Conference on Rough Sets and Knowledge Technologies-2014(ICRSKT-2014), organized by Department of Computer Science and Engineering , JNTUH College of Engineering in Collaboration with the Indian Society for Rough Sets, Hyderabad.
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- S. Siva Nageswara Rao, Y.K. Sundara Krishna, “A Virtual Zone Based Multicasting for Mobile Ad Hoc Networks”, International Conference on “ Computer Science and Information Technology (ICCSIT)”, 10 March, 2013, organized by Interscience Research Network at Hyderabad, India.
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National Presentations:

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- Saikumar, Y.K. Sundara Krishna, “ Next Generation Mobile ID for Generalized Mobility”, 12-13 December 2014, National Seminar on “Ethical Hacking- An Inevitable Tool for a Secured Organization”, Organized by Department of Computer Science & Applications, KBN College, Vijayawada, India.
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- Ch. N. Manisha,, Y.K. Sundara Krishna, “ A Study on Recognition Method of Telugu Numerals and Characters”, 12-13 December 2014, National Seminar on “Ethical Hacking- An Inevitable Tool for a Secured Organization”, Organized by Department of Computer Science & Applications, KBN College, Vijayawada, India.
- P. Ravi Kiran, Y.K. Sundara Krishna,, “Approaches for Network Selection in Vertical Handover in Next Generation Networks”, 20-21 August, 2014, National Seminar on “ The Role of Mathematics and Information Sciences in Design of Sophisticated Systems” , Department of Mathematics, Andhra Loyola College, Vijayawada, India.
- A. Srinivasa Rao, Y.K. Sundara Krishna, V.V. Krshna, “Distributed Computing Algorithms for Mobile Computing Networks”, 20-21 August, 2014, National Seminar on “ The Role of Mathematics and Information Sciences in Design of Sophisticated Systems” , Department of Mathematics, Andhra Loyola College, Vijayawada, India.
- A. Srinivasa Rao, Y.K. Sundara Krishna, “Driver Fatigue detection and Controlling the speed of a Vehicle by Intimating to the Ecu through Communication”, 20-21 August, 2014, National Seminar on “ The Role of Mathematics and Information Sciences in Design of Sophisticated Systems” , Department of Mathematics, Andhra Loyola College, Vijayawada, India.
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- Y.K. Sundara Krishna, “Categorization of Mobile Services using Rough Sets”, 20-21 August, 2014, National Seminar on “ The Role of Mathematics and Information Sciences in Design of Sophisticated Systems” , Department of Mathematics, Andhra Loyola College, Vijayawada, India.
- S. Saikumar, Y.K. Sundara Krishna, “Mobile ID Structure for Next Generation Networks”, 20-21 August, 2014, National Seminar on “ The Role of Mathematics and Information Sciences in Design of Sophisticated Systems” , Department of Mathematics, Andhra Loyola College, Vijayawada, India.

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- V.Yesubabu,S.Siva Nageswara Rao,Dr.Y.K.SundaraKrishna,SD.Rizwana, "Novel Approach for security and Privacy Preservation in Service-Oriented VANET's" *International Conference* ,NECICC-2k14, Aug 2014, Narasaraopeta, AP,India
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- K. LakshmiNath, K. Nageswara Rao, Y.K. Sundara Krishna, "Improving TCP Performance With Delayed Acknowledgements Over Wireless Networks", National Seminar on Artificial Intelligence Robotics and Embedded Systems- AIRES-2012, June 29-30,2012, Department of Computer Science and Systems Engineering, Andhra University, A.P., India
- P. Ravi Kiran, Y.K.Sundara Krishna, "Network Selection in Next Generation Networks using Fuzzy Logic Controllers", National Seminar on "Recent Trends in Information and Communication Technology", January 7-8, 2012, Krishna University, Machilipatnam, A.P., India.
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- P. Rama Kishore, V.S.R.K. Sarma, Y.K. Sundara Krishna, "Educational Services Using Reliable Semantic Web", National Seminar on "Recent Trends in Information and Communication Technology", January 7-8, 2012, Krishna University, Machilipatnam, A.P., India.
- D. Vidyanadha Babu, P. Tulasi Krishna, Y. K. Sundara Krishna, "A Survey on Spatial Data Representation", National Seminar on "Recent Trends in Information and Communication Technology", January 7-8, 2012, Krishna University, Machilipatnam, A.P., India.
- Ch. Suresh Babu, G. Parthasarathy Varma, Y .K. Sundara Krishna, "ANDROID, A Revolutionary Mobile OS - Issues and Challenges", National Seminar on "Recent Trends in Information and Communication Technology", January 7-8, 2012, Krishna University, Machilipatnam, A.P., India.
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- P. L. N. Prakash Kumar, N. Hari Prasad, Y. K. Sundara Krishna , “Modeling Service Oriented Architecture for Heterogeneous Smart Handoff Mobile”, National Seminar on “Recent Trends in Information and Communication Technology”, January 7-8, 2012, Krishna University, Machilipatnam, A.P., India.
- D. G. Krishnamohan, Y. K. Sundara Krishna, “SOA Based Geographical Mobile Applications”, National Seminar on “Recent Trends in Information and Communication Technology”, January 7-8, 2012, Krishna University, Machilipatnam, A.P., India.
- Y. K. Sundara Krishna, A. Vasudeva Sastry, V. D. Phani Kumar, “Solving Multiple Downloading Problem Using Globus Tool Grid”, National Seminar on “Recent Trends in Information and Communication Technology”, January 7-8, 2012, Krishna University, Machilipatnam, A.P., India.
- S. Chandra, Y. K. Sundara Krishna, “Hierarchical Mobile IPV6 in Network Simulator 2”, National Seminar on “Recent Trends in Information and Communication Technology”, January 7-8, 2012, Krishna University, Machilipatnam, A.P., India.
- M. Srinivasulu, Y. K. Sundara Krishna, “Tracking the Mobile Location by using GPS”, National Seminar on “Recent Trends in Information and Communication Technology”, January 7-8, 2012, Krishna University, Machilipatnam, A.P., India.
- Sd. Rizwana, S. Siva Nageswara Rao, Y. K. Sundara Krishna , “ An Efficient Route Recovery Approach in Wireless Mesh Networks”, National Seminar on “Recent Trends in Information and Communication Technology”, January 7-8, 2012, Krishna University, Machilipatnam, A.P., India.
- V. S. R. K. Sarma, M. Sitaram Kumar, Y. K. Sundara Krishna, “ Building a Telugu Thesaurus System”, National Seminar on “Recent Trends in Information and Communication Technology”, January 7-8, 2012, Krishna University, Machilipatnam, A.P., India.
- K. Lakshmi Nadh, K. Nageswarao Rao, Y. K. Sundara Krishna, “ Proposed Solutions for Non-Congestion Events of TCP over Wireless Networks”, National Seminar on “Recent Trends in Information and Communication Technology”, January 7-8, 2012, Krishna University, Machilipatnam, A.P., India.
- Y.K. Sundara Krishna, C. Raghavendra Rao “ Load Distribution Strategies for Cell Servers”, IEIE Zonal Seminar on Emerging and Converging Communication Technologies, Visakapatnam, February 10-11,2007
- Y.K. Sundara Krishna, C. Raghavendra Rao “ Mobile Pattern with Look Ahead Approaches” XIV Congress of Andhra Pradesh Society for Mathematical Sciences, Visakhapatnam, September 9-11 2005
- Y.K. Sundara Krishna, C. Raghavendra Rao “ Look Ahead Algorithms for Mobile Location XXIII Annual Conference of Indian Society for Probability and Statistics, Nagarjuna University, A.P., December 18-20, 2003
- Y.K. Sundara Krishna, C. Raghavendra Rao “ Load Distribution Strategies for Mobile Servers” XII Congress of Andhra Pradesh Society for Mathematical Sciences, Osmania University, Hyderabad December 12-14,2003
- Y.K. Sundara Krishna, C. Raghavendra Rao “ A Performance Index of a Mobile Tracking System” , Eleventh Congress of Andhra Pradesh Society for Mathematical Sciences, Sri Padmvathi Mahila Visvavidalayam, Tiupathi, A.P. January 31- February 2,2003

- Y.K. Sundara Krishna, C. Raghavendra Rao “ An Estimate for Mobile Location”, National Conference on Statistical Methods –2002, Nagarjuna University, A.P., March 28-29, 2002
- Y.K. Sundara Krishna, Deepak Narayanam, C. Raghavendra Rao “Tracking Stations for Mobile Location”, CSI National Conference, Hyderabad, December 11-12, 2001 pp 70-78

Research Guidance

- Supervisor for SIX Ph D Scholars in Computer Science in Krishna University, Machilipatnam, A.P., India
- Co-Supervisor for two Ph D Scholars in Computer Science and Engineering Jawaharlal Nehru Technological University, Kakinada, A.P., India

Project Guidance

- A Project on “An Integrated Framework for University Web portal” a M. Tech thesis submitted by P. Ram Kishore, Reg. No, C08MT002182 during December , 2009 to Acharya Nagarjuna University, A.P., India

Book Publications

- UG CBCS Regulations and Semester –I Syllabus and Model papers 6th Oct 2015

Technology Contribution to the students

- Design and Developments in Mobile Computing-issues and solutions
- Design of Service Oriented Architectures for Mobile Computing Systems
- Development of Spatial Data Structures
- Modeling Object Oriented Systems with Unified Modeling Language
- Operating Systems Critical analysis and discussions
- Distributed Systems – Issues and developments
- Visual Programming- Development of win32 applications with VC++ and MFC
- Parallel Programming – Approaches & Techniques
- Computer Organization – Fundamental design, working of Computer Systems
- Web Programming - Development of Service Oriented Architecture
- Mobile Computing Concepts

3. Developments of Projects

Software Projects

- Registration and Verification client modules for EAMCET-2001 counseling
- Simulation Programs for the following Research Topics in VC++ platform
 - i. Mobility Management: An Object Tracing Approach
 - ii. An Estimate for Mobile Location
 - iii. A Performance Index of a Mobile Tracking System
 - iv. Mobile Tracking Process: Look Ahead approaches
 - v. Load Distribution Strategies for Cell Servers
- Win 32 Application for 8255 based ISA card for Sigma Systems, Vikrampuri, Hyderabad
- Web Programming –Development Front End for Online examination Systems using PHP and My SQL at Krishna University, Machilipatnam

Hardware Projects

- Network Installation in SVP National Police Academy, Hyderabad Novel 4.01, 3.12 with 60 nodes)
- Systems Installations and Configurations in Deccan college of Engineering and Technology (2 UNIX systems with 32 nodes, 40 PCS)
- Network Installations in various branches of Corporation Bank, Oriental Insurance Companies in Hyderabad
- UNIX based installations in Zuari Agro, Vysya Bank etc., in Hyderabad

4. Membership in Professional bodies

- i. Life member of ISTE
- ii. Life member of Andhra Pradesh Society for Mathematical Sciences

5. Participating in workshops and Training Programs

- i. Workshop on “Establishment of Smart Campuses”, 29 April, 2015, Acharya Nagarjuna University, A.P., India.
- ii. NAAC Awareness Workshop on “ Role of Assessment and Accreditation in Enhancing Quality of Higher Education”, 5-6 February, 2015, Krishna University, Machilipatnam.

- iii. Workshop on “ Technologies of the Future” held on 25th June 2009 hosted by Department of CSE, R.M.D. Engineering College, Kavaraipettai, Gummidipoondi, Thiruvallur, Tamil Nadu, India.
- iv. Workshop on “ Industry Oriented Software Engineering”, January 20-22, 2003, IIS Bangalore
- v. Workshop on “ Design and Analysis of Algorithms” December 28-29, 2002 and January 4-5,11-12, 2003, Rajamahendra College of Engineering, Hyderabad
- vi. Workshop on “ Performance Excellence” June 1-2, 2002 , Vasavi College of Engineering, Hyderabad
- vii. Workshop on Object and Component Technology” April 23-25, 2001, MJCET, Hyderabad
- viii. Refresher Course on “Advanced Unix & C” at JNT University, Hyderabad from November 26 to December 15, 2001
- ix. MS-IT Mentor Training Workshops by ASCHE at Hyderabad
 - Object Oriented Programming
 - Networking
 - Great Theoretical ideas in Computer Science

6. Personal Profile

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Date of Birth : 20-04-1970

Marital Status : Married (Two Daughters)