



**Prof. Dr. RAJESH S**

**VICE CHANCELLOR – Joy University**

**Ph.D (BITS-Pilani)  
M.Tech (BITS -Pilani)  
M.E (BITS -Pilani)  
B.Tech – SVU**

**NAAC Peer Team – Chairman**

**Former PRO VICE CHANCELLOR, Adamas University, Kolkata**

**Former PRO VICE CHANCELLOR, Karnavati University, Gujarat**

**Former DEAN – KIIT University, Bhubaneshwar- Odisha**

**Former Professor – BITS Pilani – 10 years (1999-2008)**

Website: <https://joyuniversity.edu.in/vice-chancellor-profile/>

Email: [vc.advisor.raj@gmail.com](mailto:vc.advisor.raj@gmail.com)

## BRIEF BIOGRAPHY

**Prof. Dr RAJESH S is currently serving as VICE CHANCELLOR of Joy University, near Kanyakumari in Tamil Nādu.**

**Prof. Dr. RAJESH S is also serving NAAC as Peer Team Chairman since 2022.**

**Also served as PRO VICE CHANCELLOR of Adamas University in Kolkata.**

**Also served as PRO VICE CHANCELLOR of Karnavati University in Gujarat.**

**Prof. Rajesh S has served at the prestigious BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, BITS-Pilani (1998-2008) for 10 years and then with JAYPEE UNIVERSITY OF IT, Solan, HP (2009-2013) for 5 years and as DEAN at KIIT University, Bhubaneshwar, Odisha for 2 years (2013-2015). Prof. Dr. S. Rajesh was formerly with Birla Institute of Technology & Sciences - BITS - Pilani for 10 years He did his B. Tech from Sri Venkateswara University , Tirupati AP in 1998 and M. E from BITS Pilani in 1999.**

Prof. S. Rajesh holds his **Ph.D in Applied Robotics & Image Processing** also from the prestigious Birla Institute of Technology and Science (**BITS Pilani**) in Computer Vision & Image Processing titled “Robot Motion Planning using Splines, Wavelets and Image Sampling” under the esteemed guidance of **Prof. R K Mittal , Ex-DIRECTOR, BITS –Pilani, Dubai in 2006.**

**Prof. Rajesh S is the recipient of prestigious IEEE Senior Member AWARD in 2012 and ACM Senior Member Award in 2015.**

Prof. S. Rajesh has total Academic and Professional Experience of **20** years out of which **10 years with BITS Pilani** in various Administrative positions (1998-2008) and with **Jaypee University of Information Technology** for 5 years ( 2009-2013) as **DIRECTOR** of Image Information Processing Research Group at JUIT, Solan and as **DEAN at KIIT University, Bhubaneshwar for 2 years ( 2013-2015).**

During his tenure at BITS-Pilani for a decade, Prof. S. Rajesh was responsible for the setting up of campus at BITS Pilani Hyderabad campus starting from the inception in 2006 and till its execution in 2008.

Prof. S. Rajesh is **the Founding Member of** BITS Pilani Hyderabad Campus and was instrumental in setting up of campus at BITS Pilani Hyderabad campus starting from the inception in 2006 and till its execution in 2008.

**Prof. S. Rajesh** was also the Chief Architect of BITS Admission Test (BITSAT) in 2005. He also has vast administrative experience of 15 years in setting up the campus for BITS Pilani, Hyderabad and he was on the Advisory Committee for BITS Pilani, Hyderabad. He was on the Academic Council as Advisory for KIIT University and Jaypee University of IT.

**Prof. S. Rajesh** was the **Founding General Chair for IEEE ICIP 2011 & 2013 - IEEE International Conference on Image Information Processing related to Computer Graphics, Computer Vision and Image Processing and 2015 IEEE International Conference on Computer Graphics, Vision and Information Security.** He is also the Member of IEEE Visualization and Graphics Technical Committee and IAENG.

**Prof. S. Rajesh** is currently serving as **Reviewer** for **IEEE Transactions on Image Processing, Elsevier International Journal of Visual Communication and Image Representation, Elsevier International Journal of Applied Mathematics and Computation,** and Program Committee Member of innumerable IEEE & Springer International Journals and Conferences Worldwide.

**Total Work Experience: 28 Years**

**ADMINISTRATION ( 24 Years)**

- 1. VICE CHANCELLOR – Joy University, Kanyakumari – TN (2022 – Till Date)**
- 2. PRO VICE CHANCELLOR – Karnavati University (2019– 2020)**
- 3. PRO VICE CHANCELLOR – Adamas University, Kolkata (2015- 2017)**
- 4. NAAC Peer Team – Chairman – 2022 – Present**
- 5. DEAN & Professor** – KIIT University, Bhubaneswar (2013 -2015)
- 6. DIRECTOR** – Image Information Processing Research Group @ Jaypee University of Information Technology (2009 – 2013)
- 7. HEAD** – PhD & M. Tech – Department of Computer Science @ Jaypee University of Information Technology of IT
- 8. General Chair** – IEEE International Conference on Image Information Processing ( IEEE ICIIP) , Nov, 3-5, 2011 & Dec, 9-11, 2013, Nov 2-4, 2015.
- 9. Faculty-In-Charge-** for Work Integrated Learning Programmes @ BITS-Pilani, Hyderabad.
- 10. In Charge & Co-ordinator** – Practice School –I & II Programmes @ BITS Pilani Hyderabad.
- 11. Founding member** of BITS Pilani Hyderabad Campus for setting up the campus and Administration.
- 12. Faculty-Incharge-Administration & Public Relations**, BITS Pilani, Hyderabad Campus.
- 13. Academic Council Member** of Jaypee University of IT and KIIT University, India
- 14. INCHARGE & HEAD** – BITS Admission Test - BITSAT @ BITS Hyderabad.
- 15. Nucleus Member** – Center for Robotics and Intelligent Systems - CRIS, BITS Pilani

## A. EDUCATIONAL BACKGROUND

Degree	Year	University	Remarks
<b>Ph.D</b> <b>BITS-Pilani</b>	2008	<b>Birla Institute of Technology &amp; Science, BITS Pilani, Rajasthan, India</b>  Discipline : <b>Computer Science &amp; Engg</b>  <i>Research Areas:</i> Robot Motion Planning Image Processing, Computer Vision, Wavelets  <i>Dissertation:</i> “Robot Motion Planning using Splines Wavelets and Image Sampling”.  <i>PhD Advisor:</i> <b>Professor R.K. Mittal</b> <b>DIRECTOR</b> <b>Birla Institute of Technology &amp; Science</b> <b>BITS Pilani Dubai Campus</b> <b>Dubai</b>	<b>Outstanding Excellent</b>
<b>M.E</b> <b>BITS –Pilani</b>	2000	<b>Birla Institute of Technology &amp; Science, BITS Pilani, Rajasthan, India</b>  <b>Specialization : Robotics</b>	<b>DISTINCTION 9.0/10.0 CGPA</b>
<b>M.Tech</b> <b>BITS-Pilani</b>	20016	<b>Birla Institute of Technology &amp; Science, BITS Pilani, Rajasthan, India</b>  <b>Specialization: Software Systems, Software Engineering</b>	<b>8.0/10.0 CGPA</b>
<b>B.Tech</b>	1998	<b>Sri Venkateswara University, Tirupathi, AP INDIA.</b>  <b>Specialization: Mechanical Engg.</b>	<b>DISTINCTION 80%</b>

## B. EMPLOYMENT HISTORY

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<b>Title/Position</b>	<b>University/Institution</b>	<b>Period</b>
<b>VICE CHANCELLOR</b>	JOY University, Kanyakumari	2022 – Present
<b>PRO VICE CHANCELLOR</b>	Karnavati University, Gujarat	2019-2020
<b>PRO VICE CHANCELLOR</b>	ADAMAS University, Kolkata	2015- 2017
<b>DEAN – Quality Assurance</b>	KIIT University, Bhubaneswar	2013 – 2015
<b>Full Professor</b>	KIIT University, Bhubaneswar	2012 – 2015
<b>Associate Professor</b>	Jaypee University of Information Technology, JUIT, Solan, HP.	2010 – 2012
<b>Assistant Professor</b>	Jaypee University of Information Technology, JUIT, Solan, H.P	2009- 2010
<b>Assistant Professor Senior Grade</b>	Birla Institute of Technology & Science, BITS Pilani, Rajasthan.	2008
<b>Lecturer (Asst. Prof –II)</b>	Birla Institute of Technology & Science, BITS Pilani, Rajasthan.	2001- 2007
<b>Assistant Lecturer (Asst. Prof –I)</b>	Birla Institute of Technology & Science, BITS Pilani, Rajasthan.	2000 - 2001
Total Academic Experience = 26 Years		

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### C. FIELDS OF RESEARCH INTEREST

1. Computer Graphics.
2. Computer Vision.
3. Image Processing.
4. Parallel and Distributed Computing using CUDA.
5. Robotics
6. Robot Motion Planning
7. Computational Geometry
8. Geometric Modeling
9. 3D Graphics and Visualization
10. Image Processing
11. Medical Imaging
12. Computer Vision
13. Computer Graphics

### D. TEACHING

**Courses Taught/Teaching at BITS Pilani and Jaypee University of IT (JUIT)/ KIIT University / Adamas University**

<b>Semester/Month Period/Year</b>	<b>Title/Status</b>
I/January-May/2000	Mechanisms and Robotics /Core
I/July-December/2000	Robotics and Control
III/January-May/2001	Geometric Modeling/Elective
III/ July-December /2001	Computer Aided Analysis & Design/Core
VI/January-May/20002	Mechanisms and Robotics/Core
V/ July-December /2002	Computational Geometry/Elective
VI/January-May/2003	Computer Aided Analysis and Design /Core
V/ July-December /2003	Computer Aided Analysis & Design/Core
VIII/January-May/2004	Algorithm Design/Elective
V/ July-December /2004	Structured Programming/Core
VI/January-May/2005	Computer Aided Design/Core
V/ July-December /2005	CAD/CAM/Elective
I/January-May/2006	Computer Aided Design
I/July-December/2007	Structured Programming
III/January-May/2008	CAD/CAM/Elective
III/ July-December /2008	Computer Aided Analysis & Design
VI/January-May/2009	Computer System Simulation
V/ July-December /2009	Data Structures
VI/January-May/2010	Image Processing/Elective
V/ July-December /2010	Computer Graphics with OpenGL /Lab
VIII/January-May/2011	Image Processing/Elective
V/ July-December /2011	Advanced Image Processing/Elective
VIII/January-May/2012	Computer Graphics/Core
V/ July-December /2012	Image Processing/Elective
VIII/January-May/2013	Computer Graphics/Core
VIII/January-May/2014	Compiler Design
VIII/January-May/2015	Theory of Computation
VIII/January-May/2016	Design & Analysis of Algorithms



## G. INTERNATIONAL CONFERENCES

Conference	Day(s)	Scope & Details
1. IEEE International Conference on Image Information Processing ( IEEE ICIP) 2011	Nov 3-5 , 2011	<b>General Chair</b> Computer Graphics, Image Processing Computer Vision, Pattern Recognition
2. IEEE Second International Conference on Image Information Processing ( IEEE ICIP) 2013	Dec 9-11, 2013	<b>General Chair</b> Computer Graphics, Image Processing Computer Vision, Pattern Recognition
3. IEEE Tencon ( IEEE Tencon) Singapore,2009	Nov 23-26, 2009	<b>Session Chair</b> Computer Science, Electrical Engg. Computer Vision, Pattern Recognition
4. International Conference on Emerging Mechanical Technology Macro To Nano (EMTM2N-2007) BITS –PILANI	Feb 16-18, 2007	<b>Session Chair</b> Robotics, Computer Graphics, MEMS Computer Vision, Pattern Recognition
5. IAENG World Congress in Computer Science, University of California, Berkeley	Oct 19-21 2011	<b>Session Chair</b> Computer Science, Electrical Engg. Computer Vision, Pattern Recognition
6. IEEE India Council Conference ( IEEE Indicon) Kochi ,2012	Dec 7-9 , 2012	<b>Session Chair</b> Computer Science, Electrical Engg. Computer Vision, Pattern Recognition
7. IEEE Second International Conference on Computer Graphics , Vision and Information Security, IEEE CGVIS, 2015, 2017	Nov 3-4 , 2015	<b>General Chair</b> Computer Graphics, Image Processing Computer Vision, Pattern Recognition

## H. COMPUTER SKILLS

Operating System:	Win XP, Win 7, Unix
Database:	Oracle 8.0 and 9i
Languages:	C and C++
Technology:	Java Enterprise Edition
GUI:	MATLAB and VC++ 6.0
Modeling Language:	UML
Simulators:	MATLAB 7.1



## **I. PROFESSIONAL ACTIVITIES**

### **I.1 Memberships**

IEEE Senior Member since 2012

ACM Senior Member since 2015

IEEE VGTC since 2009

IAENG since 2011

IEEE since 2006

IAENG since 2011

### **J. 1 Editorial and Reviewer Work for Technical Journals and Publishers**

IEEE Transactions on Image Processing ( IEEE – TIP)

IEEE Signal Processing Letters ( IEEE – SPL)

IEEE Visualization and Graphics Technical Program Committee ( IEEE VGTC)

Elsevier International Journal of Applied Mathematics and Computation. JAMC

Elsevier International Journal of Visual Communication and Image Representation -JVCIR

Elsevier International Journal of Biomedical Signal processing - BSP

### **J.2 Conference/Workshop Technical Committee Activities (Member/Reviewer)**

2013 Program Committee, 8<sup>th</sup> EUROSIM Congress on Modeling and Simulation.

2013 Program Committee, 2013 International Conference on Modeling and Simulation, AIMS

2013 Program Committee, The International Conference on Intelligent Systems in Middle East

2013 Program Committee, The International Conference on Systems Informatics Modeling and Simulation (SIMS).

2012 Program Committee, 2012 IEEE Symposium on Computers and Informatics

2012 Program Committee, The 2<sup>nd</sup> IEEE International Conference on Paralle Distributed and Grid Computing (IEEE PDGC), JUIT, India

2012 Program Committee, The 2012 4<sup>th</sup> International Congress on Engineering Education

2012 Program Committee, 2012 IEEE Symposium on Control Systems and Industrial Informatics (IEEE ICCSSI).

2012 Program Committee, The IEEE International Conference on Power and Energy Conference, PECON.

2012 Program Committee, The IEEE International Conference on Computer Applications and Industrial Electronics (IEEE ISCAIE).

- 2012 Program Committee, The IEEE Symposium on Computers and Informatics, (ISCI).
- 2011 Program Committee, The IEEE Symposium on Industrial Electronics and Applications (ISIEA).
- 2011 Program Committee, The 3rd IEEE International Conference on Ultra Modern Telecommunications and Control Systems (IEEE ICUMT)
- 2011 Program Committee, The 3<sup>rd</sup> IEEE International Conference on Computational Intelligence, Communication Systems and Networks (IEEE CICSyN).
- 2012 Program Committee, The 4th IEEE International Conference on Computational Intelligence, Communication Systems and Networks (IEEE CICSyN)
- 2011 Program Committee, The International Conference on Computational Intelligence Modeling and Simulation(CIMSim).
- 2012 Program Committee, The The International Conference on Computational Intelligence Modeling and Simulation(CIMSim).
- 2010 Program Committee, The 2nd IEEE International Conference on Computational Intelligence, Communication Systems and Networks (IEEE CICSyN).
- 2010 Program Committee, The IEEE International Conference on Ultra Modern Telecommunications and Control Systems( IEEE ICUMT)
- 2012 Program Committee, The 4<sup>th</sup> International Congress on Ultra Modern Telecommunications and Control Systems (IEEE ICUMT)
- 2011 Program Committee, The 13th IEEE International Conference on Computer Modelling and Simulation (IEEE UKSIM), Cambridge, UK.
- 2012 Program Committee, The 13th IEEE International Conference on Computer Modelling and Simulation (IEEE UKSIM), Cambridge, UK.
- 2013 Program Committee, The IEEE International Congress on Ultra Modern Telecommunications and Control Systems (IEEE ICUMT), Moscow, RUSSIA.
- 2010 Program Committee, The 2nd International Conference on Computational Intelligence, Communication Systems and Networks (CICSyN), Liverpool, UK.
- 2010 Program Committee, The 9th IEEE/ACIS International Conference on Computer and Information Science (IEEE/ACIS ICIS), JAPAN.
- 2010 Program Committee, The 12th IEEE International Conference on Computer Modelling and Simulation (IEEE UKSIM), Cambridge, UK.
- 2010 Program Committee, The International Conference on Image Information Processing (ICIIP), INDIA.
- 2009 Program Committee, The IEEE International Conference on Ultra Modern Telecommunications (IEEE ICUMT), St. Petersburg, RUSSIA.
- 2009 Program Committee, Third UKSIM European Symposium on Computer Modeling and Simulation (EMS), GREECE.
- 2007 Program Committee, International Conference on Emerging Mechanical Technology Macro to Nano, EMTM2N, BITS Pilani, India.

### J. 3Advisory Committees

August 2000-Dec 2008	Member, BITS Pilani Advisory Board for BITS Pilani Hyderabad Campus,India
2009-2013	Head of M.Tech. and Ph.D. Examination Committee of Department of CSEand ICT, JUIT, Wagnaghat, INDIA.
2014	Advisory Committee Member for 2 <sup>nd</sup> SPRINGER International Conference on Advanced Computing and Informatics ( ICACNI -2014).
2013	Advisory for Springer Workshop on Researcher Benefits and End User Perspectives.
2011	Advisory & General Chair for IEEE International Conference on Image Information Processing, IEEE –ICIIP, 2011.
2013	Advisory & General Chair for IEEE 2 <sup>ND</sup> International Conference on Image Information Processing, IEEE –ICIIP, 2013.

### K. RESEARCH PUBLICATIONS

#### Refereed International Journal & Conference Publications

S **.Rajesh** & Kireeti B “ An Expeditious Algorithm for Salt and Pepper Image Noise Cancellation and Edge Preservation using Cardinal Spline Interpolation “, **In Elsevier International Journal of Visual Communication and Image Representation** , Volume 25, Issue 6, August 2014, Pages 1349–1365, 2014.

<https://www.sciencedirect.com/science/article/pii/S1047320314000832>

DOI: 10.1016/j.jvcir.2014.05.004

**S. Rajesh**, “A Fast Novel Algorithm for Salt and Pepper Image Noise Cancellation using Cardinal B-splines,” **Springer International Journal of Signal Image and Video Processing**, Volume 7, Issue 6, pp 1145-1157, November 2013.

DOI: 10.1007/s11760-012-0368-3

URL : <https://link.springer.com/article/10.1007/s11760-012-0368-3>

**S. Rajesh**, "Salt-and-Pepper Noise Removal by Adaptive Median Based Lifting Filter using Second Generation Wavelets," **Springer International Journal of Signal Image and Video Processing**, Volume 7, Issue 1, pp 111-118 , January 2013.

DOI : 10.1007/s11760-011-0210-3

<https://link.springer.com/article/10.1007/s11760-011-0210-3>

**S. Rajesh**, Anshul Sood, Monish Koul , "Fast novel image reconstruction Algorithm using Adaptive R-tree based segmentation and Linear Bivariate Splines", In ACM Proceedings of the Second International Conference on Computational Science, Engineering and Information Technology , Pages 676-682 , ACM New York, NY, USA ©2012

DOI : 10.1145/2393216.2393329

URL : <https://dl.acm.org/doi/10.1145/2393216.2393329>

**S. Rajesh** "A Fast Progressive Image Transmission Algorithm Using Linear Bivariate Splines", Springer Journal of Communications in Computer and Information Science, No. 1, Volume 94, Contemporary Computing, Part 11, Pages 568-578, 2010.

DOI: 10.1007/978-3-642-14834-7\_53

URL : [https://link.springer.com/chapter/10.1007/978-3-642-14834-7\\_53](https://link.springer.com/chapter/10.1007/978-3-642-14834-7_53)

**S. Rajesh** and Meenakshi Arya "A Novel Biometric Watermaking Approach Using LWT-SVD" Springer Journal of Communications in Computer and Information Science, Volume 147,Part 1, Pages: 123-131, 2011.

DOI: 10.1007/978-3-642-20573-6\_20

URL : [https://link.springer.com/chapter/10.1007/978-3-642-20573-6\\_20](https://link.springer.com/chapter/10.1007/978-3-642-20573-6_20)

**S. Rajesh** , SP Ghrera , "An Intelligent Recursive Algorithm for 95% Impulse Noise Removal in Grayscale and Binary Images using Lifting Scheme ", Journal: Lecture Notes in Engineering and Computer Science Year: 2011 Vol: 2193 Issue: 1 Pages/record No.: 67-71

URL : [https://www.iaeng.org/publication/WCECS2011/WCECS2011\\_pp67-71.pdf](https://www.iaeng.org/publication/WCECS2011/WCECS2011_pp67-71.pdf)

**Rajesh S** and Ravikant Verma, "A Fast Image Reconstruction Algorithm Using AdaptiveR-Tree Segmentation and B-Splines ", Springer Journal of Communications in Computer and Information Science, 2012, Volume 305, Part 4, pp. 195-203, 2012

URL : [https://link.springer.com/chapter/10.1007/978-3-642-32112-2\\_24](https://link.springer.com/chapter/10.1007/978-3-642-32112-2_24)

**Rajesh S**, Meenakshi Arya and S P Ghrera "A hybrid semi-blind digital image watermarking technique using lifting wavelet transform - Singular value decomposition," In Proceedings of 2011 IEEE International Conference on Electro/Information Technology (EIT),pp.1-6, 15-17 May 2011

URL : <https://ieeexplore.ieee.org/document/5978552>

**Rajesh S**, Srivastava, A , Kartikey, D., Srivastava, U. Srivastava, V., "Non holonomic shortest robot path planning in a dynamic environment using polygonal obstacles," 2010 IEEE International Conference on Industrial Technology (IEEE ICIT), pp.553-558, 14-17 March, Chile, 2010

URL : <https://ieeexplore.ieee.org/document/5472742>

**S. Rajesh S**, "An Evolutionary Approach to Image Noise Cancellation Using Adaptive Particle Swarm Optimization (APSO) " 2010 Second IEEE International Conference on Computational Intelligence, Communication Systems and Networks (CICSyN), pp.279-284, 28-30 July 2010 , Liverpool, UK.

URL : <https://ieeexplore.ieee.org/document/5616131>

**Rajesh, S**, Srivastava, G.K. , Verma, R. , Mahrishi, R. "A Novel Wavelet Edge Detection Algorithm for Noisy Images," IEEE International Conference on Ultra Modern Telecommunications & Workshops, 2009. ICUMT '09. pp.1-8, 12-14., Oct, 2009, St. Petersburg, Russia.

URL : <https://ieeexplore.ieee.org/document/5345404>

**Rajesh S**. Verma, R.; Mahrishi, R.; Srivastava, G.K. "A Novel Image Reconstruction Using Second Generation Wavelets," IEEE International Conference on Advances in Recent Technologies in Communication and Computing, 2009. IEEE ARTCom '09. pp. 509-513, 27-28 Oct. 2009

DOI: 10.1109/ARTCom.2009.59

URL : <https://ieeexplore.ieee.org/document/5329237>

**Rajesh S**. Jaiswal, T ; , "Image Noise Cancellation by Lifting Filter Using Second Generation Wavelets (LFSGW)," IEEE International Conference on Advances in Recent Technologies in Communication and Computing, 2009. IEEE ARTCom '09., pp. 667-671, 27- 28 Oct. 2009

DOI: 10.1109/ARTCom.2009.61

URL : <https://ieeexplore.ieee.org/document/5329028>

**Rajesh S**, Kumar, P.; Saroj "Classification Models: Non Evolutionary vs. Evolutionary Approach," IEEE International Conference on , Advances in Computing, Control, & Telecommunication Technologies, 2009. IEEE ACT '09. pp.341-343,28-29,Dec.2009

DOI:10.1109/ACT.2009.91

URL : <https://ieeexplore.ieee.org/document/5376648>

**Rajesh, S**, Verma, R.; Srivastava, G.K.; Mahrishi, R. "A Fast Image Reconstruction Algorithm using Significant Sample Point Selection and Linear Bivariate Splines," IEEE TENCON 2009 - Region 10 Conference , pp.1-6, 23-26 Jan. 2009, Singapore.

DOI: 10.1109/TENCON.2009.5396243

URL : <https://ieeexplore.ieee.org/document/5396243>

**Rajesh S**, Sandeep, K.; Mittal, R.K. , "A Fast Progressive Image Sampling Using Lifting Scheme And Non-Uniform B-Splines," ISIE 2007. IEEE International Symposium on Industrial Electronics, 2007. pp.1645-1650, 4-7 June 2007, University de Vigo, Spain.

DOI:10.1109/ISIE.2007.4374851

URL : <https://ieeexplore.ieee.org/document/4374851>

**Rajesh S**, Sandeep, K. , Mittal, R.K. , "Robot Motion Planning on Rough Terrain Using Multiresolution Second generation Wavelets and Non-Uniform B-splines," IEEE International Conference on Industrial Technology, 2006. ICIT 2006. vol., no., pp.967-972, 15-17 Dec. 2006, IIT. Mumbai.

DOI: 10.1109/ICIT.2006.372267

URL : <https://ieeexplore.ieee.org/document/4237589>

**Rajesh S** and R.K.Mittal, “Non-Holonomic Path Planning With Continuous Curvature Among Polygonal Obstacles Using Non-Uniform Rational B-Splines (NURBS),”, in Proceedings of International Conference in CAD/CAM, Robotics and Factories, (INCARF-03),11-13 Aug, I.I.T –Delhi, 2003.

**Rajesh S**, K. Sandeep and R.K.Mittal “Rough Terrain Robot Motion Planning Using Lifting Scheme and Linear Bivariate splines,” in Proceedings of International Conference on Emerging Trends in Mechanical Technology, (EMTM2N), Feb 16-18, BITS-Pilani, pp.270-275 , 2007

**Rajesh S** , K. Sandeep “A Fast progressive Non-Uniform Image Sampling using Lifting Scheme and Linear Bivariate Splines,” in Proceedings of International Conference on Soft Computing & Intelligent Systems, Jabalpur - ICSCIS - Dec 2007.

**Rajesh S**, “Combined and Improved Framework of Infrastructure as a Service (IAAS)and Platform as a Service (PAAS) in Cloud Computing), In Springer Journal of Communications in Advances in Intelligent Systems and Computing Volume 236, pp 831-839, 2014.

URL : [https://link.springer.com/chapter/10.1007/978-81-322-1602-5\\_88](https://link.springer.com/chapter/10.1007/978-81-322-1602-5_88)

**Rajesh S** and Kireeti B , "A novel algorithm for detection and removal of random valued impulse noise using cardinal splines," 2012 IEEE India Conference (INDICON), Kochi , Kerala, pp.1003-1008, 7-9 Dec. 2012

DOI : 10.1109/INDCON.2012.6420763

URL : <https://ieeexplore.ieee.org/document/6420763>



**Rajesh S** & Kireeti B “A Novel Random-valued-impulse Noise Detection and Removal using Localized Pixel Intensity Variation filter and Interpolation via Prolate Spheroidal Wavefunctions,” In Elsevier Applied Mathematics and Computation , 2016. (under review)

K.25 **Rajesh S**, Debolina Ghosh ; Priyasmita Chatterjee ; ; Rishabh Roy “An expeditious Adaptive R+ tree based Image Segmentation and fast reconstruction” In 2015 2nd International Conference on Computing for Sustainable Global Development (INDIACom) <https://ieeexplore.ieee.org/document/7100593>

K.26 A. Nandi and **R. S**, "On NURBS algorithms and application: A survey," 2015 2nd International Conference on Computing for Sustainable Global Development (INDIACom), New Delhi, 2015, pp. 2019-2024.  
URL: <https://ieeexplore.ieee.org/document/7100595>

K.27 K Bodduna and **R. S**, "An expeditious decision based algorithm for high amplitude noise elimination from 3D meshes," 2016 IEEE Region 10 Conference (TENCON), Singapore, 2016, pp. 3605-3609. doi: 10.1109/TENCON.2016.7848730  
URL: <https://ieeexplore.ieee.org/abstract/document/7848730>

K28. **Rajesh S** ; Priyasmita Chatterjee ; Pradeep Kandula ; Debolina Ghosh ; Rishabh Roy “A comparative analysis of R Tree and R+ Tree based image segmentation and reconstruction” In 2015 2nd International Conference on Computing for Sustainable Global Development (INDIACom)  
URL : <https://ieeexplore.ieee.org/document/7100594>

K29. **Rajesh S** ; Aditya Kumar Singh ; Anuj Aggarwal ; Manik Vashisht ; “ Robot motion planning in a dynamic environment using offset Non-Uniform Rational B-Splines (NURBS)”  
In 2011 IEEE International Conference on Industrial Technology IEEE ICIT

URL : <https://ieeexplore.ieee.org/document/5754393>

K30. **Rajesh S** ; “Message from the General Chairs” 2011 IEEE International Conference on Image Information Processing Year: 2011 | Conference Paper | Publisher: IEEE Jaypee University of Information Technology , JUIT Solan, HP

URL : <https://ieeexplore.ieee.org/document/6108834>

K31 : **Rajesh S** ; Kireeti B, Rishabh Roy “ A Fast and Efficient Mesh Smoothing Algorithm for 3D Graphical Models Using Cubic B-Splines” In **Springer Journal of Advances in Intelligent Systems and Computing**, vol 340. Springer, New Delhi.

DOI : [https://doi.org/10.1007/978-81-322-2247-7\\_48](https://doi.org/10.1007/978-81-322-2247-7_48)

URL : [https://link.springer.com/chapter/10.1007/978-81-322-2247-7\\_48](https://link.springer.com/chapter/10.1007/978-81-322-2247-7_48)

## **L. AWARDS, SCHOLARSHIPS, DISTINCTIONS AND HONORS**

- General Chair for IEEE ICIP 2011, 2013, india
- Always stood in the top 1% in all academic degrees
- Recipient of the Andhra Pradesh State Government Scholarship.
- Senior Member of IEEE : Membership Number - 80648492
- Technical program committee member of various conferences
- Recipient of Marquis Who's Who Award, 2013

## **M. WORKSHOPS, TALKS, INVITED LECTURES**

Coordinator Workshop, Indo-US Collaboration for Engineering Education IUCEE at Jaypee University of Information Technology, Wagnaghat, July 9-10, 2012, INDIA.

1. Conducted Refresher Course on Image Processing and Computer Graphics at Jaypee University of Information Technology, Wagnaghat, October 16, 2011, INDIA.
2. Chief Coordinator Workshop on Artificial Neural Networks, Pattern Recognition, Computer Vision & Multimedia Information Retrieval Conducted by Dr. Ishwar K. Sethi is currently a professor and chair of the Department of Computer Science and Engineering at Oakland University in Rochester, Michigan at Jaypee University of Information Technology, Wagnaghat, July 4-8, 2011, INDIA.  
(<http://www.juit.ac.in/APCM/Organizers.php> )
3. Registration Co-chair, PDGC 2010-The First IEEE International Conference on Parallel, Distributed and Grid Computing, Jaypee University of Information Technology, Wagnaghat, October 28-30, 2010, INDIA.
4. Invited to Conduct and Chair IUCEE International Workshop on Image Processing, July 5-9, 2010.
5. Invited Lecture on Wavelet based Fission Track Analysis for Estimation of Internal Dose at Babha Atomic Research Centre (BARC), Mumbai , April, 28th , 2012.
6. Invited Lecture on Recent Research Trends in Image Processing, Computer Vision and Computer Graphics at Shiv Nadar University on Nov 23, 2012.

## N. AWARDS

### IEEE, USA - SENIOR MEMBER AWARD -2012



### ACM, USA - SENIOR MEMBER AWARD-2015



## **o. PHOTOGRAPHS / SNAPSHOTS**



**2011 General Chair of IEEE – ICIIP, Jaypee university of IT, Solan, HP**



**2023 NAAC Peer Team – Jamia Hamdard University, New Delhi**



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