



# SANMOY BANDYOPADHYAY

*Student Member, IEEE*

## PERSONAL DATA

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State - West Bengal, Pin - 713103, India

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## PRESENT STATUS

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*Current* | Senior Research Fellow  
at CENTER FOR SOFT COMPUTING RESEARCH, INDIAN STATISTICAL  
INSTITUTE, Kolkata  
Currently working in the field of Image Processing. *Specialization*: COMMON  
OBJECTS DETECTION IN THE IMAGES.

## EDUCATION

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2012 M.Tech in ELECTRONICS AND COMMUNICATION ENGINEERING,  
Specialization: *Telecommunication Engineering*  
**National Institute of Technology, Durgapur**

2009 B.Tech in ELECTRONICS AND COMMUNICATION ENGINEERING,  
**Academy of Technology, Aedconagar**  
| University: WEST BENGAL UNIVERSITY OF TECHNOLOGY

2004 12<sup>th</sup> Std (ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION)  
**Kendriya Vidyalaya No.-II, Saltlake**  
| Board: CENTRAL BOARD OF SECONDARY EDUCATION

2002 10<sup>th</sup> Std (ALL INDIA SECONDARY SCHOOL EXAMINATION)  
**Kendriya Vidyalaya No.-II, Saltlake**  
| Board: CENTRAL BOARD OF SECONDARY EDUCATION

## SPECIALIZATION

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Basic Knowledge: Digital Electronics, Mobile Communication,  
Satellite Communication.

## COMPUTER SKILLS

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Basic Knowledge: C, C++, JAVA, L<sup>A</sup>T<sub>E</sub>X, MATLAB  
Intermediate Knowledge: Excel, Word, PowerPoint

## ACADEMIC PROJECTS

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<i>M.Tech Thesis</i>	ANTENNA ARRAY SYNTHESIS USING OPTIMIZATION TECHNIQUE, <i>Work Carried Out at: National Institute of Technology, Durgapur</i> <i>Duration: Final Year of M.Tech (2011 - 2012)</i> <i>Supervisor: Prof. B. Maji, Department of Electronics and Communication Engineering, National Institute of Technology, Durgapur</i>
<i>B.Tech Final Year Project</i>	DESIGN OF A CONTROLLER USING FUZZY LOGIC IN TEMPERATURE CONTROL SYSTEM, <i>Work Carried Out at: Academy of Technology, Aedconagar</i> <i>Duration: Final Year of B.Tech (2008 - 2009)</i> <i>Supervisor: Prof. N. R. Das, Department of Radiophysics and Electronics, Calcutta University</i>
<i>Technical Report</i>	3-G MOBILE TECHNOLOGY, <i>Work Carried Out at: Academy of Technology, Aedconagar</i> <i>Duration: 4<sup>th</sup> Semester of B.Tech</i> <i>Supervisor: Mr. Abhijeet Banerjee, Department of Electronics and Communication Engineering, Academy of Technology, Aedconagar</i>

## PRACTICAL TRAINING

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<i>C++</i>	<i>Duration: 1 month(2006)</i> <i>Location: CMC Parkstreet, Kolkata</i>
<i>JAVA</i>	<i>Duration: 2 month(2007)</i> <i>Location: CMC Parkstreet, Kolkata</i>
<i>Signalling and Telecommunication</i>	<i>Duration: 2 weeks(2007)</i> <i>Location: Signalling And Telecommunication Training Center, Eastern Railway, Strachey Road, Near Liluah Railway Colony, Liluah, Howrah -711204</i>
<i>Telecommunication and Networking</i>	<i>Duration: 4 weeks(2008)</i> <i>Location: BSNL, Netaji Subhash Chandra Bose Telecom Training Center, Kalyani, Nadia, West Bengal – 741235</i>

## SCHOLASTIC ACHIVEMENTS AND CERTIFICATES AWARDED

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- 1998 Took **third place** in **Students' Science Seminar -1998** at Municipal level. Jointly organized by **Department of Youth Services, Govt. of West Bengal and Birla Industrial and Technological Museum, NCSM, Govt. of India** on the topic - *50 YEARS OF SCIENCE AND TECHNOLOGY IN INDEPENDENT INDIA – ACHIVEMENT AND ASPIRATION.*
- 1999 Took **third place** in **Students' Science Seminar -1999** at Municipal level. Jointly organized by **Department of Youth Services, Govt. of West Bengal and Birla Industrial and Technological Museum, NCSM, Govt. of India** on the topic - *SCIENCE AND TECHNOLOGY IN THE NEW MILLENIUM PROSPECTS AND PROBLEMS.*

- 2000 “Paryavaran Ratana Award” (Participation Certificate)  
 | *Examination Conducted by:* THE INDIAN CENTER FOR WILDLIFE AND ENVIRONMENTAL STUDIES IN SOUTH ASIA REGION.
- 2014 “Certificate of Merit” in Indian Army Open Painting Competition
- 2015 “Certificate of Merit” in Indian Army Open Painting Competition

## POSITIONS OF RESPONSIBILITY

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Member of Scout Team in school from Class - V to Class - IX. | *School:* Kendriya Vidyalaya, Burdwan

## MEMBERSHIP

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<i>IEEE Membership</i>	<b>Member number:</b> 90408552 <b>Grade:</b> Graduate Student Member <b>Region:</b> R10 -Asia and Pacific <b>Section:</b> Kolkata Section <b>From Year:</b> 2012
<i>The Indian Science Congress Association Membership</i>	<b>Member number:</b> L22085 <b>Grade:</b> Life Member <b>From Year:</b> 2013
<i>ACM Membership</i>	<b>Member number:</b> 3691709 <b>Grade:</b> Student Member <b>From Year:</b> 2015  <b>Member number:</b> 3691709 <b>Grade:</b> Member of ACM Student Chapter, ISI Kolkata <b>From Year:</b> 2015

## SEMINARS AND WORKSHOPS ATTENDED

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1. **Vision for India** by *Shri A P J Abdul Kalam* (Hon'ble President of India), organized by CII at *Netaji Indoor Stadium, Kolkata*, 21<sup>st</sup> January 2003.
2. **Recent Trends in Communication Technology (RTCT 2011)**, organized by IETE Burdwan Sub-Center and Department of Physics, **The University of Burdwan** at *The University of Burdwan, Burdwan*, 26<sup>th</sup> February 2011.
3. **Technical Sessions of the IEEE AP/MTT Joint Chapter**, organized by **IEEE AP/MTT Societies Joint Chapter Calcutta Section** at *National Institute of Technology, Durgapur*, 7<sup>th</sup> March 2011.
4. **International Workshop on Fuzzy Sets, Rough Sets, Uncertainty Analysis and Application (FRUAA 2011)**, jointly organized by Department of Mathematics, NIT, Durgapur in association with **Center for Soft Computing Research, ISI, Kolkata** at *National Institute of Technology, Durgapur*, 21<sup>st</sup>-25<sup>th</sup> November 2011.
5. **5th International Conference on Pattern Recognition and Machine Intelligence (PReMI'13)**, jointly organized by **Center for Soft Computing Research, ISI, Kolkata** and **Machine Intelligence Unit, ISI,**

**Kolkata** at *Indian Statistical Institute, Kolkata*, 10<sup>th</sup>-14<sup>th</sup> December 2013.

6. **Workshop on Soft Computing and Applications (SCA'14)**, jointly organized by **Center for Soft Computing Research, ISI, Kolkata and JSS Academy of Technical Education, Noida** at *JSS Academy of Technical Education, Noida*, 2<sup>nd</sup>-4<sup>th</sup> September 2014.
7. **International Workshop on Soft Computing and Applications (ISCA'15)**, jointly organized by **Center for Soft Computing Research, ISI, Kolkata and South Asian University, New Delhi** at *South Asian University, New Delhi*, 25<sup>th</sup>-27<sup>th</sup> March 2015.

## PUBLICATIONS

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### National Conference:

1. Surajit Kundu, Sanmoy Bandyopadhyay, N.R. Das, "Design of a Controller Using Fuzzy Logic in Temperature Control System, " Proc. Engineering Education in the New Century (E2NC - 2011), pp. - 34 - 37, 20 -21 January, 2011.
2. Sanmoy Bandyopadhyay, B. Maji, "Antenna Array Synthesis Using Tsukamoto Fuzzy Logic Controller," Proc. Emerging Trends in Electronics and Telecommunication Engineering (ETETE - 2012), pp.-1, Bilaspur, India, 27 January, 2012.
3. Sanmoy Bandyopadhyay, B. Maji, "Antenna Array Synthesis Using Fuzzy Logic Controller," Proc. Second National Conference on Computing and System (NaCCS - 2012), pp. - 93 - 99, Burdwan, India, 15 - 16 March, 2012.
4. Sanmoy Bandyopadhyay, Hiranmay Mistri, Paragkanti Chattopadhyay and B Maji, "Antenna Array Side Lobe reduction by Implementing Non - Uniform Amplitude Using Tsukamoto Fuzzy Logic Controller," Proc. 3rd National Conf. on Engineering Education in the New Century (E2NC - 2013), pp. 58 - 61, Mankundu, India, 15 - 16 February, 2013.

### International Conference:

1. S. Bandyopadhyay, M. K. Das, N. R. Das, "Design of a Controller Using Fuzzy Logic in Temperature Control System and Differentiating Between Mamdani and Tsukamoto Fuzzy Model," Proc. 1st International Conf. on Engineering Education in the New Century (E2NC - 2012) pp. - 37 - 40, 3 -4 February, 2012.
2. Sanmoy Bandyopadhyay, B. Maji, "Antenna Array Synthesis by Varying the Spacing Between Each Element of the Antenna Array Using Fuzzy Logic," Proc. International Conference on Information Technology, Electronics and Communication (ICITEC - 2012), pp. - 185 - 191, Bangalore, India, 3 - 4 March, 2012.
3. Sanmoy Bandyopadhyay, Ashok Babu. Chatla, B. Maji, "Antenna Array Synthesis by Implementing Non - Uniform Spacing Using Tsukamoto Fuzzy Logic Controller," Proc. International Conference on Computer Science and Engineering (ICCSE - 2012), pp. - 67 - 72, Vizag, India, 28 April, 2012.
4. Ashok Babu. Chatla, Sanmoy Bandyopadhyay, B. Maji, "A Dual Band Z-Shape Stepped Dielectric Resonator Antenna For Millimeter Wave Applications," Proc. International Conference on Electronics and Communication

Engineering (ICECE - 2012), pp. -180 – 184, Vizag, India, 28 – 29 April, 2012.

5. Sanmoy Bandyopadhyay, Hiranmay Mistri and B Maji, "Antenna Array Synthesis by Implementing Non - Uniform Amplitude Using Fuzzy Logic," IEEE - 2012 International Conference on Communications, Devices and Intelligent Systems (CODIS), pp. - 209 - 212, Jadavpur University, Kolkata, 28 - 29 December, 2012.
6. Sanmoy Bandyopadhyay, Hiranmay Mistri, Paragkanti Chattopadhyay and B Maji, "Antenna Array Synthesis by Implementing Non-Uniform Amplitude Using Tsukamoto Fuzzy Logic Controller," Proc. 2013 International Conference on Advanced Electronic Systems (ICAES), pp. 19 – 23, Pilani, India, 21 - 23 September, 2013.

**Journal:**

1. Sanmoy Bandyopadhyay, Ashok Babu. Chatla, B. Maji, "Antenna Array Synthesis by Implementing Non – Uniform Spacing Using Tsukamoto Fuzzy Logic Controller," IRNet Transactions on Computer Science and Engineering, vol. 1, iss. 1, pp. – 117 – 123, 2012.
2. Sanmoy Bandyopadhyay, Hiranmay Mistri, Paragkanti Chattopadhyay and B Maji, "Antenna Array Side Lobe reduction by Implementing Non - Uniform Amplitude Using Tsukamoto Fuzzy Logic Controller," International Journal of Electronics and Communication Engineering Technology (IJECT), vol. 4, pp. 58 – 61, 2013.

**Book Chapter:**

1. Ashok Babu. Chatla, Sanmoy Bandyopadhyay, B. Maji, "A Dual Band Z-Shape Stepped Dielectric Resonator Antenna For Millimeter Wave Applications," Recent Development in Wireless Sensor and Ad-hoc Networks, Springer, pp. 103 - 124 , 2015.

**REFERENCES**

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References available upon request.