

Dr. Sabnam Sengupta

Professor, Department of Information Technology
B. P. Poddar Institute of Management & Technology, Kolkata, India

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Research Profiles

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Google Scholar: <https://scholar.google.com/citations?user=3-HzHxEAAAAJ>

Summary Profile

- Ph.D. in Computer Science & Engineering in the field of Software Engineering from Jadavpur University, Kolkata, India
- Research & Thought Leadership Through Publications, Editorial Activities, Presentations & Talks
 - 1 Edited Volume (Springer)
 - 2 Edited Volumes in process
 - 1 Book
 - 11 Book Chapters
 - 16 Journal Publications
 - 33 Publications in International/National Conference Proceedings
 - Supervision and Ph.D. Research Guidance
 - Supervision of Under Graduate and Post Graduate Projects (Application & Research)
 - 2 Paper Presentations in Hyderabad, India and in Monterey, California, USA
 - 2 Invited Talks in National Institute of Technology (NIT), Durgapur, India
- Twenty-two years of Experience in Teaching in Undergraduate & Post Graduate Level
- Three Years of Experience as a Software Developer in USA & India
- Technical Certifications including Sun Certified Programmer in Java 2.0 Platform
- Biography published in Marquis Who's Who in Science & Technology, 28th Edition, 2010

Education

Ph. D	Doctorate In Computer Science & Engineering Jadavpur University Calcutta, India 2005 – 2008
B Tech	Post Graduate Degree In Chemical Engineering University of Calcutta Calcutta, India Percentage of Marks Obtained: 75 1995 – 1998
B. Sc.	Bachelors Degree with Chemistry Honours/Major Presidency College Calcutta, India

	Percentage of Marks Obtained: 66 1992- 1995
Higher Secondary	12+ Level Kamala Girls' School Calcutta, India Percentage of Marks Obtained: 74 1990 – 1992
Madhyamik	10+ Level Kamala Girls' School Calcutta, India Percentage of Marks Obtained: 77 1980- 1990

Certifications

- IBM Certified Project Mentor in 2006 & 2007
- Sun Certified Programmer in Java 2.0 platform

Awards

- National scholarship for position in B. Sc examination in 1995
- National scholarship for position in Madhyamik (10) in 1990

Work Experience

2024 July – till date	B P Poddar Institute of Management & Technology, Kolkata, India Professor, Department of Information Technology
2011 Dec- 2024 July	B P Poddar Institute of Management & Technology, Kolkata, India Associate Professor, Department of Information Technology
2008 – 2011 Dec	B P Poddar Institute of Management & Technology, Kolkata, India Assistant Professor, Department of Information Technology
2004 - 2008	B P Poddar Institute of Management & Technology, Kolkata, India Lecturer, Department of Information Technology
2002 – 2003	IBM Global, Kolkata, India Software Consultant
2000 - 2002	Capital One Services, Richmond, Virginia, USA Software Developer

Teaching

Experience	<ul style="list-style-type: none"> • Twenty one years at B P Poddar Institute of Management & Technology, Kolkata • Current Position: Head of the Department & Associate Professor • Department: Information Technology
Interest	<ul style="list-style-type: none"> • Software Engineering, Information Systems Analysis & Design, Object Technology & UML, Web Technology

Project Supervision	<ul style="list-style-type: none"> • Project supervision for M. Tech students of A. K. Chowdhury Institute of Technology, University of Calcutta & University College of Science & Technology, University of Calcutta • Undergraduate projects every year for final year student, Department of IT
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Others: Administrative / Coordination

- **Head, Department of Information Technology**, B. P. Poddar Institute of Management & Technology (2009–Present)
Providing academic and administrative leadership of the department, including curriculum implementation, faculty management, student mentoring, laboratory development, research promotion, and accreditation (NBA) activities.
- **Principal (Additional Responsibility)**, B. P. Poddar Institute of Management & Technology, Salt Lake Campus (2022–2023)
Provided overall academic and administrative leadership of the Salt Lake campus, overseeing institutional operations, faculty coordination, academic delivery, student affairs, regulatory compliance, and liaison with governing authorities.
- **Presiding Officer**, National-Level Online Examinations (GATE 2013, 2014, 2015; HSSE – IIT Humanities & Social Sciences Entrance; AIIMS MD Entrance)
Conducted and supervised secure national-level competitive examinations at the institutional centre.
- **Coordinator, Faculty Seminar Programme “Prosaron”**, Coordinated institutional faculty research seminar series promoting scholarly dissemination and interdisciplinary interaction.
- **Coordinator**, Time Table Committee
- **Member**, Institute Academic Cell
- **Member**, Internal Quality Assurance Cell (IQAC)
- **Member**, Admission Committee
- **Assistant Public Information Officer**, Right to Information (RTI) Committee
- **Member**, Staff Grievance Redressal Committee
- **Member**, Institute Disciplinary Committee
- **Member**, Anti-Ragging Core Committee

Research

- **Interest:** Software Engineering

- **Activities:**

General Chair, International Conference on Artificial Intelligence and Sustainable Computing, July 24-25, 2024, AISC 2025, IEEE, Springer

General Chair, International Conference on Artificial Intelligence and Sustainable Computing, July 24-25, 2024, AISC 2024, IEEE, Springer

Convener, National Conference on Emerging Trends in Computing & Communication (ETCC 2014), organized by Department of Information Technology, BPPIMT, on March 22-23, 2014 in technical collaboration with IEEE and CSI. The proceeding of the conference was published by Springer under the book series, Lecturer Notes in Electrical Engineering.

Program Chair, International Conference on Optimization, Computing and Business Analytics (ICOCBA 2012), organized by Operational Research Society, India, December 19-22, 2012

Convener, Seminar on Advanced Computing & Communication (ACC 2013), organized by Department of Information Technology, B P Poddar Institute of Management & Technology, April 6, 2013

Convener, Seminar on Advanced Computing & Communication (ACC 2012), organized by Department of Information Technology, B P Poddar Institute of Management & Technology, March 24, 2012

Level	Domain	Where	When
Doctoral	<ul style="list-style-type: none"> • Functional Specifications of Object Oriented Systems: A Model Driven Framework” 	Jadavpur University, Kolkata	2005 - 2008
Post-Doctoral	<ul style="list-style-type: none"> • Formal Modeling • Software Architecture • Requirement Traceability • Software Metrics • Non-Functional Requirements • Evolution of Software Development Paradigms • Cloud Computing 	B. P. Poddar Institute of Management & Technology	2008 – till date

- **Publications:**

Books/ Book Chapters	<p>[1] Gitosree Khan, Anirban Sarkar, Sabnam Sengupta, Behavioral analysis of service composition patterns in ECBS Using petri-net-based approach, Advanced Computing and Systems for Security, Springer, Singapore, pp 53-66, ISBN: 978-981-10-8180-4</p> <p>[2] Gitosree Khan, Sabnam Sengupta, Anirban Sarkar, “Formal modeling of Enterprise Cloud Bus System: A High level Petri-net based Approach”, Requirements Engineering for Service and Cloud Computing – Editors: Muthu Ramachandran and Zaigham Mahmood, Part II, PP 121 – 149, Springer, 2017 [DOI: https://doi.org/10.1007/978-3-319-51310-2_6, Print ISBN978-3-319-51309-6, Online ISBN978-3-319-51310-2.</p>
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- [3] Gitosree Khan, Sabnam Sengupta, Anirban Sarkar, “Modeling and Analysis of Enterprise Cloud Bus Using a Petri Net Based Approach”, Book: Advanced Computing and Systems for Security, Editors: Rituparna Chaki, Khalid Saeed, Agostino Cortesi, Nabendu Chaki, Volume Four, Part I, pp. 17 - 36, January 2017, Springer [DOI: 10.1007/978-981-10-3391-9_2, Print ISBN: 978-981-10-3390-2, Online ISBN: 978-981-10-3391-9].
- [4] Khan, Gitosree; Sengupta, Sabnam; Sarkar, Anirban, “Priority based Service Scheduling in Enterprise Cloud Bus Architecture”, Chapter 70 of “Frontiers in Computer, Communication and Electrical Engineering – Acharyya (Ed.)© 2016 Taylor & Francis Group, London, ISBN: 978-1-138-02877-7, 2016.
- [5] Khan, Gitosree; Sengupta, Sabnam; Sarkar, Anirban, “Modeling and Analysis of Enterprise Cloud Bus using a Petri Net Based Approach”, Applied Computation and Security Systems, Editors: Rituparna Chaki, Khalid Saeed, Sankhayan Choudhury, Nabendu Chaki© 2016 Springer. (To be Published)
- [6] Khan, Gitosree; Sengupta, Sabnam; Sarkar, Anirban, “Formal modelling of Inter-Cloud Architecture (ECB) & its Service Scheduling Approach using CPN tool ”, Handbook of Requirements Engineering for Service and Cloud Computing, Editors: Muthu Ramachandran, Zaigham Mahmood, i© 2016 Springer. (To be Published)
- [7] Sabnam Sengupta, Kunal Das, Gitosree Khan, “Emerging Trends in Computing & Communication (ETCC 2014)” Springer India Series: Lecture Notes in Electrical Engineering Series ISBN-13: 9788132218166
- [8] Jayeeta Chanda, Ananya Kanjilal, Sabnam Sengupta and Swapan Bhattacharya, “*Transformation Framework for Consistent Evolution of UML Behavioral Elements into BPMN Design Elements*”, a book chapter (Chapter 11) in “Web Services Foundation”, Editors: Bouguettaya, Athman; Sheng, Quan Z.; Daniel, Florian (Eds.), Publisher: Springer, ISBN: 978-1-4614-7517-0, July, 2013.
- [9] Ananya Kanjilal, Sabnam Sengupta and Swapan Bhattacharya, “*Graph Based Analysis of Object Oriented Systems: An Integrated Approach*”, Nova publishers, 2010.
- [10] Ananya Kanjilal, Sabnam Sengupta and Swapan Bhattacharya, “*Graph Based Analysis of Object Oriented Systems*”, Chapter of “Horizons in Computer Science Research, Volume 1”, Nova publishers, 2010.
- [11] Swapan Bhattacharya, Ananya Kanjilal and Sabnam Sengupta, “*Tools and Techniques for Model Based Testing*”, “Handbook of Research on Software Engineering and Productivity Technologies:
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Implications of Globalization”, Information Science Reference (Imprint of IGI Global), pp 226-249, August 2009.

Journals

- [1] Anirban Bhar, Sabnam Sengupta, Sankhayan Choudhury, Journal of The Institution of Engineers (India): Series B, Dealing with Non-Functional Requirements: A Process-Oriented Approach; Journal of The Institution of Engineers (India): Series B, <https://doi.org/10.1007/s40031-026-01332-6>
 - [2] Anirban Bhar, Sabnam Sengupta, Sankhayan Choudhury, A knowledge-driven semantic framework for non-functional requirement engineering in intelligent healthcare systems, Discover Artificial Intelligence, Springer International Publishing, <https://doi.org/10.1007/s44163-026-01223-1>, 2026
 - [3] Anirban Bhar, Sabnam Sengupta, Sankhayan Choudhury, Suchismita Maiti, Shubhendu Banerjee, Suparna Dasgupta, Soumyabrata Saha, Tanusree Saha, Amrut Ranjan Jena, Soumya Bhattacharyya, A Domain-Specific Framework for Priority-Based Modeling and Optimization of Non-Functional Requirements Beyond Binary Constraints, IEEE Access (Volume: 14), DOI: 10.1109/ACCESS.2026.3666268, Page(s): 28775 - 28784
 - [4] Anirban Bhar, Sabnam Sengupta, Sankhayan Choudhury, Aspect-Oriented Approach of Non-Functional Requirements for Embedded System Based IoT Applications, IEEE Access, Vol 13, pp. 129451 – 129460, DOI: 10.1109/ACCESS.2025.3585417
 - [5] Gitosree Khan, Anirban Sarkar, Sabnam Sengupta, Dynamic service composition in enterprise cloud bus architecture, International Journal of Web Information Systems, Emerald Publishing Limited
 - [6] Gitosree Khan, Anirban Sarkar, Sabnam Sengupta, HBSD: a hadoop based service discovery model for enterprise cloud bus, International Journal of Information Technology and Web Engineering (IJITWE), IGI Global, Vol 14, issue 3, September 2019
 - [7] Gitosree Khan, Sabnam Sengupta and Ananya Kanjilal. Article: Representation and Analysis of Object Oriented Graph (OOG): A Graph Algorithmic Approach. International Journal of Computer Applications 55(4):pp. 30-37, October 2012. Published by Foundation of Computer Science, New York, USA.
 - [8] Gitosree Khan, Anirban Sarkar, Sabnam Sengupta, (2017), “Behavioral Modeling of Enterprise Cloud Bus System: High Level Petri Net based Approach”, (SERSC) International Journal of Software Engineering and Its Applications (IJSEIA), SCOPUS indexing, vol. 11, no. 7 (2017), pp. 13-30, July 2017, [DOI: <http://dx.doi.org/10.14257/ijseia.2017.11.7.02>, ISSN: 1738-9984 IJSEIA]
 - [9] Jayeeta Chanda, Sabnam Sengupta, Ananya Kanjilal, Swapan Bhattacharya: Traceability between service component and class: a
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model based approach. ACM SIGSOFT Software Engineering Notes 37(6): 1-5 (2012)

- [10] Sabnam Sengupta, Ananya Kanjilal, Swapan Bhattacharya: Measuring complexity of component based architecture: a graph based approach. ACM SIGSOFT Software Engineering Notes 36(1): 1-10 (2011)
- [11] Jayeeta Chanda, Sabnam Sengupta, Ananya Kanjilal, Swapan Bhattacharya: SCAG: a graphical approach to measure the complexity of the SOA application. ACM SIGSOFT Software Engineering Notes 36(5): 1-6 (2011)
- [12] Jayeeta Chanda, Sabnam Sengupta, Ananya Kanjilal, Swapan Bhattacharya, "CA-ESB: Context Aware Enterprise Service Bus", IJCA, ISBN 978-93-80864-86-9, September 2011.
- [13] Jayeeta Chanda, Sabnam Sengupta, Ananya Kanjilal and Swapan Bhattacharya, "SCAG: A Graphical Approach to Measure the Complexity of the SOA Application", ACM SIGSOFT Software Engineering Notes 36(5): 1-6 (2011).
- [14] Sabnam Sengupta, Ananya Kanjilal, Swapan Bhattacharya, "Measuring Complexity of Component Based Architecture: A Graph Based Approach", ACM Sigsoft Software Engineering Notes (SEN), Volume 36, Issue 1, Jan 2011.
- [15] Dipankar Majumdar, Sabnam Sengupta, Ananya Kanjilal, Swagata Kundu, Swapan Bhattacharya, "A Mathematical Reusability Model for Quantifying the Reduction in Development Effort", ACM Software Engineering Notes (SEN), Vol. 35, Issue 4, July 2010. DOI: 10.1145/1811226.1811234.
- [16] Sabnam Sengupta, Abhik Sengupta, Swapan Bhattacharya, "A Framework for Component Design using MVC Design Pattern", INFOCOMP Journal of Computer Science, Vol 7, No. 4, December, 2008.
- [17] Sabnam Sengupta, Swapan Bhattacharya, "Formalization of Functional Requirements of Software Development Process", In the Journal of Foundations of Computing and Decision Sciences (FCDS), Institute of Computing Science, Poznan University of Technology, Poland, Vol 33, Issue 1, pp 83-115, 2008.

Conference Proceedings:

- [1] Gitosree Khan, Sabnam Sengupta, Anirban Sarkar, "A Graph Semantic Based Approach for Modeling of Enterprise Cloud Bus System Dynamics", IEEE 7th International Conference on Cloud Computing, Data Science & Engineering (CONFLUENCE 2017), IEEE , Noida, India, pp. 298-305, January 12th – 13th , 2017.
- [2] Khan, Gitosree. & Sengupta, Sabnam. & Sarkar, Anirban. "Modeling and Analysis of Enterprise Cloud Bus using a Petri Net Based Approach", 3rd International Doctoral Symposium on Applied Computation and Security Systems (ACSS 2016) , Kolkata, India, August 12th – 14th , 2016 .

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- [3] Khan, Gitosree. & Sengupta, Sabnam. & Sarkar, Anirban. & Debnath, C. Narayan, "Performance Analysis of Service Discovery for Enterprise Cloud Bus (ECB)", 2016 IEEE International Conference on Industrial Technology (ICIT 2016), Taipei, Taiwan, pp. 1728 -1735, March 14th – 17th , 2016 .
 - [4] Khan, Gitosree. & Sengupta, Sabnam. & Sarkar, Anirban. "Priority based Service Scheduling in Enterprise Cloud Bus Architecture",IEEE International Conference on Foundations and Frontiers in Computer, Communication and Electrical Engineering (C2E2 2016), SKFGI, Mankundu, pp. 363 -368, Jan 15th – 16th , 2016.
 - [5] Khan, Gitosree. & Sengupta, Sabnam. & Sarkar, Anirban. & Debnath, C. Narayan, "XML based Service Registration System for Enterprise Cloud Bus", 3rd IEEE International Conference on Computing, Management and Communications DaNang (ComManTel 2015) , Vietnam, pp. 250 -255, Dec 28th – 30th, 2015.
 - [6] Gitosree Khan, Sabnam Sengupta, Anirban Sarkar, Narayan C Debnath, "Web Service Discovery in Enterprise Cloud Bus Framework: T Vector Based Model", 13th IEEE International Conference on Industrial Informatics (INDIN 2015), Cambridge, UK, pp. 1672-1677, July 22nd -24th, 2015.
 - [7] Gitosree Khan, Sabnam Sengupta, Anirban Sarkar, "Modeling of Services and their Collaboration in Enterprise Cloud Bus (ECB) using UML 2.0", 2015 International Conference on Advances in Computer Engineering and Applications (ICACEA), IMS Engineering College, Ghaziabad, India, pp. 207-213, March 19th-20th, 2015.
 - [8] Khan,Gitosree et al. "A Probabilistic Model for Analysis and Fault Detection in the Software System: An Empirical Approach." Emerging Trends in Computing and Communication. Springer, 2014. pp. 253-265, March 22-23, 2014 .
 - [9] Anirban Bhar, Sabnam Sengupta, Proto-Spiral: A Hybrid SDLC Model for Measuring Scalability Early in Development Using a Probabilistic Approach, Emerging Trends in Computing and Communication. Springer, 2014. pp. 253-265, March 22-23, 2014
 - [10] Gitosree Khan, Sabnam Sengupta, Anirban Sarkar, Narayan C Debnath, "Modeling of Inter-Cloud Architecture using UML 2.0: Multi-Agent Abstraction based Approach", In Proc. of 23rd International Conference on Software Engineering and Data Engineering (SEDE), pp. 149-154, October 13-15, 2014.
 - [11] Gitosree Khan, Sabnam Sengupta, Anirban Sarkar, "WSRM: A Relational Model for Web Service Discovery in Enterprise Cloud Bus (ECB)", 3rd International Conference on Eco-friendly Computing and Communication Systems (ICECCS) , NITK Surathkal, Mangalore, pp. 117-122, December 18th -21st, 2014.
 - [12] Dipankar Majumdar, Sabnam Sengupta, Ananya Kanjilal, Swapan Bhattacharya, "Adv-EARS: A Formal Requirements Syntax for Derivation of Use Case Models", Proc of the First International
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Conference on Advances in Computing and Information Technology, pp 40-48, July, 15-17, 2011, Chennai, India.

- [13] Swapan Bhattacharya, Jayeeta Chanda, Sabnam Sengupta, Ananya Kanjilal, "Dynamic Service Choreography using Context Aware Enterprise Service Bus", 23rd International Conference in Software Engineering and Knowledge Engineering, PP 319 – 324, Miami, USA, July 7 - 9, 2011.
- [14] Jayeeta Chanda, Sabnam Sengupta, Ananya Kanjilal and Swapan Bhattacharya, "FAM2BP: Transformation Framework of UML Behavioral Elements into BPMN Design Element", Proceedings of COSIT 2011, Part 1, CCIS 131, pp 70-79, Bangalore, India, January 2-4, 2011.
- [15] Jayeeta Chanda, Sabnam Sengupta, Ananya Kanjilal and Swapan Bhattacharya, "CA-Graph: A Context Aware Graph to Model Enterprise Service Bus", IEEE INDICON, Kolkata, December 2010.
- [16] Dipankar Majumdar, Ananya Kanjilal, Sabnam Sengupta, Swapan Bhattacharya, "Fault Prevention Metric of a Compiler: A Probabilistic Study", IEEE/IACSIT Second International Conference on Information and Multimedia Technology, Dec 28 – 30, 2010, Hong Kong, China.
- [17] Jayeeta Chanda, Sabnam Sengupta, Ananya Kanjilal and Swapan Bhattacharya, Formalization of the Design Phase of Software Lifecycle: A Grammar Based Approach, to be published in the Proceedings of International Workshop on Formalization of Modeling Languages, Colocated with ECOOP, Maribor, Slovenia, June 21, 2010
- [18] Jayeeta Chanda, Ananya Kanjilal, Sabnam Sengupta, Swapan Bhattacharya, "UML-Compiler: A Framework for Syntactic and Semantic Verification of UML Diagrams", Proceedings of 6th International conference on Distributed Computing and Internet Technology, ICDCIT'10, LNCS ISSN 0302-9743, Vol. 5966, pp 194-205, Bhubaneswar, February 14-15, 2010.
- [19] Ananya Kanjilal Sabnam Sengupta and Swapan Bhattacharya, "Scenario Path Identification in Distributed Environment: A Model Based Approach", Proc. of 21st IEEE Symposium on Rapid System Prototyping (RSP 2010), Fairfax, VA, June 8-11, 2010
- [20] Jayeeta Chanda, Ananya Kanjilal, Sabnam Sengupta, Swapan Bhattacharya, "UML-Compiler: A Framework for Syntactic and Semantic Verification of UML Diagrams", Proceedings of 6th International conference on Distributed Computing and Internet Technology, ICDCIT'10, LNCS ISSN 0302-9743, Vol. 5966, pp 194-205, Bhubaneswar, February 14-15, 2010.
- [21] Sabnam Sengupta, Ananya Kanjilal, Swapan Bhattacharya, "Compliance of Analysis and Design Models in Object-Oriented Systems: A Metrics based Approach", Proceedings of 1st International

Empirical Software Engineering (ESE) Workshop at ISEC 2010, Mysore, India, February 25, 2010.

- [22] Ananya Kanjilal, Sabnam Sengupta and Swapan Bhattacharya, “Analysis of Complexity of Requirements: A Metrics based Approach”, Proceedings of ACM Sigsoft 2nd Indian Software Engineering Conference (ISEC 2009), Pune, India, February 17-19, 2009. pp 131-132.
- [23] Ananya Kanjilal, Sabnam Sengupta, Swapan Bhattacharya, “Analysis of Object Oriented Systems: A Metrics Based Approach”, Proceedings of IEEE TENCON 2009, Singapore, 23-26th Nov 2009.
- [24] Jayeeta Chanda, Ananya Kanjilal, Sabnam Sengupta, Swapan Bhattacharya, “Traceability of Requirements and Consistency Verification of UML Use case, Activity and Class Diagrams: A Formal Approach”, In proceedings of IEEE International Conference on Methods and Models in Computer Science, ICM2CS, New Delhi, pp 337-340, December 14-15, 2009.
- [25] Ananya Kanjilal, Sabnam Sengupta and Swapan Bhattacharya, “CAG: A Component Architecture Graph”, Proceedings of IEEE TENCON, Hyderabad, India, Nov 19-21, 2008.
- [26] Sabnam Sengupta, Ananya Kanjilal, Swapan Bhattacharya, “Traceability of Requirements in Software Development Process: An empirical approach”, Proceedings of 19th IEEE/IFIP International Symposium on Rapid System Prototyping (RSP '08), pp 105-111, Monterey, CA, USA, June 2-5, 2008.
- [27] Sabnam Sengupta, Abhik Sengupta, Swapan Bhattacharya, “Requirements to Components: A Model-View-Controller architecture”, Proceedings of 14th Monterey Workshop, pp 167-184, Monterey, CA, USA, September 10-13, 2007.
- [28] Sabnam Sengupta, Swapan Bhattacharya, “Functional Specification of Object Oriented Systems: A Model Driven Framework”, Proceedings of the Doctoral Symposium of the 31st Annual IEEE International Computer Software and Applications Conference (COMPSAC'07), pp 667-672, Beijing, China, July 22-27, 2007.
- [29] Ananya Kanjilal, Sabnam Sengupta and Swapan Bhattacharya, “Behavioral Specification of Object Oriented Systems using OCL”, Proceedings of RTET-06, Recent Trends in Emerging Technologies, pp 31-35, Kolkata, February 25, 2006.
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- [31] Sabnam Sengupta, Swapan Bhattacharya, “Formalization of Functional Requirements and Their Traceability in UML Diagrams- A Z Notation Based Approach”, Proceedings of the 11th Systems Engineering Test &

Evaluation Conference (SETE'06), Melbourne, Australia, September 25-27, 2006.

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- [33] Sabnam Sengupta, Ananya Kanjilal, Swapan Bhattacharya, "Automated Translation of behavioral models using OCL and XML", Proceedings of IEEE TENCON, Melbourne, Australia, pp 86-91, 21-24 Nov, 2005.
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- **Presentations:**

Topic	Formalization of UML Diagrams and Their Consistency Verification- A Z Notation Based Approach
Platform	1st Indian Software Engineering Conference (ISEC 2008) Hyderabad, India
Date	February 21, 2008
Topic	Traceability of Requirements in Software Development Process: An Empirical Approach
Platform	19th IEEE/IFIP International Symposium on Rapid System Prototyping, (RSP '08), Monterey, CA, USA
Date	June 4, 2008
Topic	“Behavioral Specification of Object Oriented Systems using OCL”
Platform	Recent Trends in Emerging Technologies (RTET), Kolkata, India
Date	February 25, 2006

- **Invited Talks:**

Topic	Platform	When
“Model Driven Development of Software Products”	National Seminar on “Engineering of Software Products: Perspectives of Research & Applications”, National Institute of Technology, Durgapur, India,	January 21, 2009
“Requirement Traceability in Software Development Process”,	National Seminar on “Engineering of Software Products: Requirements to Deliverables”, National Institute of Technology, Durgapur, India.	January 11, 2008

- **Supervision:**

Level	Details	Where
Under Graduate	Project Mentor for 6-8 projects each year (Application & Research)	B. P. Poddar Institute of Management & Technology
Post Graduate	Project Mentor for M. Tech Project	A. K. Chowdhury Institute of Technology, University of Calcutta & University College of Science & Technology, University of Calcutta
Doctoral	PhD Supervisor (2 students awarded, 1 students pursuing)	Jadavpur University, University of Calcutta, NIT Durgapur

Contact Information

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Place: Kolkata

Sabnam Sengupta
