

**Prof. Debnath Bhattacharyya,**  
**Ph.D. (Tech., Computer Science and Engineering), University of Calcutta;**  
**M.Tech. (Computer Science and Engineering), West Bengal University of Technology.**

**Contact:**

Vill. Langalberia, P.O. Gobindopur,  
Dist. 24-Parganas (South),  
Pin-700145, West Bengal, INDIA.  
Phone (R): +91 33 24371775; +91 33 34379725  
Mobile: +919903682993  
email: debnathb@gmail.com, debnath@asdf.org.in, debnathb1963@bsnl.in

---

Date of Birth: August 24, 1963.

**Education:**

May, 2012: Ph.D. (Tech., Computer Science and Engineering), University of Calcutta, India.  
Topic: "Design and Analysis of Human Signature Authentication and IRIS Verification System"  
August, 2008: M.Tech. (Computer Science and Engineering), West Bengal University of  
Technology, Kolkata, India.  
Sep, 2004: M.Sc. IT, Sam Higginbottom Institute of Agriculture, Technology & Sciences,  
(Formerly Allahabad Agricultural Institute - Deemed University), Naini,  
Allahabad, (through Distance Mode).  
August, 1994: PGDCSM, UPTRON India Ltd.  
April, 1989: B.Sc (Spl. Hons. Bot), University of Burdwan, India.  
April, 1984: B.Sc. (Pass), University of Burdwan, India.  
March, 1982: HS (Science), WBCHSE, West Bengal, India.  
March, 1980: Madhyamik Pariksha, WBBSE, West Bengal, India.

**Work Experience:**

**January 2015 ~ Current: Research Professor,** Computer Science and Engineering  
Department, VIIT, Vishakhapatnam (Vizag), AP, India.  
**January 2015 ~ Current: Adjunct Professor,** Computer Science and Engineering Department,  
VFSTR University, Guntur, AP, India.  
**March 2014 to December 2014:** Professor, CSE, VFSTR University, Guntur, AP, India.  
**October 09, 2012 to Current:** Professor and Head, Computer Science and Engineering  
Department, NSHM Knowledge Campus – Durgapur, Durgapur-713212. On Lien from  
December, 2013.  
**November 01, 2011 to May 04, 2012:** Professor, Information Technology Department,  
MCKVIE, Liluah, Howrah.  
**February 02, 2011 to October 31, 2011:** Professor, Computer Science and Engineering  
Department; In-Charge of CSE, IT and MCA; MPCT, Gwalior, India.  
**March 01, 2010 to January 31, 2011:** Foreign Professor, Hannam University, Daejeon, South  
Korea.  
**March 10, 2005 to February, 2010:** Assistant Professor, , Computer Science and Engineering  
Department, Heritage Institute of Technology, Kolkata, India.

**February 01, 1996 to March 09, 2005:** Education Officer, computer Society of India, Kolkata, India.

**January 1995 to January 1996:** Temporary Faculty Member, RCC, Jadavpur, Kolkata.

**Research Attachments:**

- **Member, Ph.D. Committee (CSIT)**, West Bengal University of Technology, Kolkata.
- **Member, Ph.D. Selection Committee (CSIT)**, West Bengal University of Technology, Kolkata.
- **Director**, “Science and Engineering Research Support Center (SERSC)”, India Part. Head Office: Room 402, Man-Je Bld., 449-B, Ojung-Dong, Daedock-Gu, Daejeon, Korea. <http://www.sersc.org/>
- **Director**, MIR Labs, Gwalior, MP, India.

**Project:** Rs. 6.00 Lakh, for 2 years, dated: 03.02.2011, Titled “Statistical Analysis towards Image Recognition”, funded and allocated by Machine Intelligence Research (MIR) Labs, (Constituents of MIR Labs, USA), Gwalior-474011.

**Research Publications:** 150

International Journals	: 73
International Conference Proceedings	: 75
National Conference Proceedings	: 02

**Guest Faculty:**

Sl.No.	Institute / University	Department(s) and Subject(s)	Year
1	<b>Visiting Professor, Lincoln University College, KL, Malaysia</b>	<b>Computer Science</b>	<b>Jan’ 2015 - current</b>
2	<b>Visiting Professor, Mewar University</b>	<b>CSE / IT</b>	<b>Aug’ 2014 - current</b>
3	<b>Invited International Professor, Hannam University, Korea.</b>	<b>Multimedia Engineering, Computer Science Division</b>	<b>Feb’ 2011 - Current</b>
3	Lady Brabourne College, Kolkata.	M.Sc. Math. Department. (Object Technology using C++ & Java)	2008-2009
4	Army Institute of Management Kolkata	MCA, (Oracle, Unix & Shell Programming)	2003-2004

**Delivery of invited Lectures:**

Sl.No.	Topic(s)	Institute/University
1	Invited Lecture on “Data Mining”	Organized by MCA Dept., Bengal Institute of Technology, Bantala. September 10, 2008.
2	Invited Lecture on “Data Mining and Current Research Trend”	Computer Science and Engineering Department, NIST, Berhampur. September 14, 2011.
3	Invited Lecture on “Current Research Trends” in Computer	K.L. University, Vijayawada, India, December 05, 2011.

	Science.	
4	Invited Lecture on “Graphical Password” in Computer Science and IT.	Bharti Vidyapeeth Deemed University, Pune, India, December 16, 2011.
5	Invited Lecture on “Data Mining”.	MPCTM, Gwalior, August 07, 2013.

***Research Interests:***

Biometric Authentication, Pattern Recognition, and Security Engineering.

**Number of Research Students:** 4

***International Activities:***

<b>Position</b>	<b>Conference/Journal</b>	<b>Location</b>	<b>Link (if any)</b>
<b>Reviewer</b>	IEEE-ICIAS 2007 International Conference	KL Convention Centre, Kuala Lumpur, Malaysia, 25 - 28 November 2007.	
	IEEE HUT-ICCE 2008 International Conference	Golden Sand Resort, Hoi An City, Vietnam, 4 - 6 June, 2008.	
	Journal of Universal Computer Science (J.UCS)		Special Issue on Data Security and Privacy Protection in Pervasive Computing Environments.
	Springer: Journal of Mobile Networks and Applications.		
	Journal of Digital Forensic Practice.		
	Electronic Letters on Computer Vision and Image Analysis (ELCVIA).		
	IJSIP, IJCA, IJDTA, IJSEIA, IJSIA, IJFGCN, IJHIT, IJSH & IJGDC International Journals.	Science and Engineering Research Support Center, Korea	<a href="http://sersc.org">http://sersc.org</a>

**Editor(s):**

**International Journal of Applied Information Systems**

Published By FCS (Foundation of Computer Science), New York, USA

<http://ijais.org/editorial-board>

**Journal of Theoretical Information and Computer Sciences**

<http://www.jtics.org/index.php/editorial-board>

**Journal of Medical Genetics and Genomics**

Academic Journals, 5170-00200, Nairobi, 73023 Victoria Island, Lagos.

<http://www.academicjournals.org/JMGG/Editors.htm>

**International Journal of Computer Application**

Published by FCS (Foundation of Computer Science), USA.

<http://www.ijcaonline.org/>

**Computer Science Journal**

Computer Science Research Foundation, Islamabad, Pakistan.

<http://www.comsj.org>

**International Journal of Communication Systems and Networks (IJCSN)**

**International Journal of Communication Systems and Networks Technologies**

**(IJCSNT)**

**International Journal of Advance Signal Processing (IJASP)**

**International Journal of Environmental Management and Technological Development**

**(IJEMTD)**

Machine Intelligence Research Labs, Scientific Network for Innovation and Research

**Journal of Current Engineering Research (JCER)**, Publication of the G Publication and

Recro Science Pvt. Ltd.

**Editor and Advisory Board member, International Journal of Emerging Technology**

**and Advanced Engineering (IJETAE)**, [http://www.ijetae.com/editorial\\_board.html](http://www.ijetae.com/editorial_board.html)

**Editor in Chief, International Journal of Scientific Research and Application,**

<http://ijsra.com/>

**Editor, Genomics Discovery, Herbert Open Access Journal, Herbert Publications Ltd.,**

15 Windmill Road, Luton, Bedfordshire, LU1 3XL, United Kingdom.

<http://www.hoajonline.com/genomics/editorialboard>

***Connections with Professional Bodies:***

- a. **Member, IEEE.** (Membership No. 92618808)
- b. **Life Member,** Computer Society of India, India. (Member No. 1065121)
- c. **Sr. Member** of “International Association of Computer Science and Information Technology (IACSIT)”, Singapore-609431. (Member No. 80331617)
- d. **Member,** International Association of Engineers (IEANG), Hong Kong. (Member No: 62559)
- e. **Member,** Science and Engineering Research Division, Computer Research Unit, Athens Institute for Education and Research, ATINER, 8 Valaoritou Street, Kolonaki, 10671 Athens, Greece.
- f. **Member of** “International Biometric Group”, <http://www.bio1.com/index.php>

**Visited Thailand, Malaysia, USA, Maldives, Nepal, Singapore, Korea, Japan, UK, etc., for presenting Research Papers in various IEEE Conferences and for Academic purposes.**

***Conference Organizing Committee:***

- a. **Session Chair, IEEE-CICSyN,** July 23-25, 2009, Indore, India.  
<http://www.cicsyn2009.org.uk>
- b. **Local Arrangement Chair and Publicity Chair, ISA 2010, UCMA 2010, AST 2010,** and ACN 2010, International Conferences, June 23 ~ 25, 2010, Sheraton Grande Ocean Resort, Miyazaki, Japan. <http://www.sersc.org/ISA2010/committee.php>
- c. **Chair, Publication Committee, UCMA-2011,** April 13-15, 2011, Hannam University, Korea.
- d. **Technical Panels Chair, ICCA 2012,** January 27-31, 2012, Pondicherry, India.  
<http://icca.org.in>
- e. **Publicity Committee Chair, International Conference on Communication Systems and Network Technologies (CSNT-2012),** 11-13 May, 2012, Rajkot, Gujrat, India.

- f. Publication Committee Chair, International Conference on Computational Intelligence and Communication Networks (CICN2012). 3-5 November, 2012, GLA University, Mathura, UP, India.
- g. **Steering Committee Co-Chair**, International Conference on Communication Systems and Network Technologies (CSNT-2013), 5-8 April, 2013, Gwalior, MP, India.
- h. **General Chair**, International Conference on Electrical and Electronics Engineering, August 9-11, 2013, Wuhan, China. <http://www.iceee2013.org/com.htm>
- i. **General Chair**, 2013 Asia-Pacific Conference on Electrical Engineering and Automation, Dec. 28-30, 2013, in Zhangjiajie, China. <http://www.iceeaconf.org/page/html/company.php>

### ***Courses taken:***

<b>Course Title</b>	<b>Undergraduate / Post Graduate</b>	<b>Institute/University</b>	<b>Batch Strength</b>	<b>Duration</b>
Adv. Java, System Admin., Object Technology, e-Commerce, C-Programming, Image Processing.	Undergraduate	Heritage Institute of Technology, Kolkata, India	90	2005-2009
Unix and Shell Programming, System Admin & Linux, C-Programming	Post Graduate: MCA		60	
Data Warehousing and Data Mining, Adv. Networking	Post Graduate: M.Tech		18	
C-Programming, Oracle, Java	Undergraduate: B.S.	Hannam University, Korea	24	Entire 2010
Project, Thesis and Seminar	Post Graduate: M.S.		20	
PPL, Unix and Shell Programming	Undergraduate: B.E.	MPCT, Gwalior, India	90, 60	From Feb, 2011
Object Oriented Programming	Undergraduate: B.Tech.	MCKVIE	60	From Nov' 2011 to May 2012
C, C++, Object Oriented Programming	Undergraduate: B.Tech.	NSHM Knowledge Campus - Durgapur	60, 60, 60	From October 2012 to December 2013

### ***Post Graduate Project/Thesis Guidance:***

- M.Tech : Successfully guided 8 Projects/and Master Thesis.  
M.C.A : Guided 7 Projects.  
Ph.D. : 1

### ***Books:***

- a. UNIX & SHELL PROGRAMMING, For BCA 3rd. Year 1st. Semester (WBUT Syllabus), MATRIX Educare Pvt. Ltd. 2011.

- b. UNIX & SHELL PROGRAMMING, For MCA 2rd. Year 1st. Semester (WBUT Syllabus), MATRIX Educare Pvt. Ltd. 2009.
- c. COMPUTER PROGRAMMING, For BCA 1st. Year 2nd. Semester (WBUT Syllabus), MATRIX Educare Pvt. Ltd. 2009.
- d. Principles of Programming Languages (PPL), Springer, IE(I) Syllabus.
- e. Object Oriented Programming using Java, Good Land Press, 2010, South Korea, (<http://www.soryang.com/>)

### **Ph.D. Students:**

Current Ph.D. Students:

Ms. Tanushree Ghosh, West Bengal University of Technology, Registered in Computer Science and Engineering, West Bengal University of Technology.

Mr. Suman Chakraborty, B.P. Poddar Institute of Management and Technology, Registered in Computer Science and Engineering, West Bengal University of Technology.

Ms. Mary Cecil, NSHM Knowledge Campus, Registered in Computer Science and Engineering, West Bengal University of Technology.

Ph.D. Awarded Student(s):

Dr. Jeevan Prasad Adhikary, Ph.D. (Computer Science & Engineering), CMJ University, April, 2013, Shilong, India.

### **Social Status:**

Date of Birth: 24.08.1963.

Marital Status: Married.

### **References:**

**Dr. Samir Kumar Bandyopadhyay, VC, West Bengal University of Technology, Kolkata.**  
[skb1@vsnl.com](mailto:skb1@vsnl.com) Mobile: +91-9831030823

**Dr. G.S. Tomar, Director, MIR Labs, Gwalior.** [gstomar@ieee.org](mailto:gstomar@ieee.org) Mobile: 09425744460

### **Publications:**

<b>Referred Journal Publications</b>	
<b>2006</b>	
1	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> and Poulami Das, "Mosquito Attack Optimization", ACM Ubiquity Journal, Volume 7, Issue 33, August 30, 2006.
2	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> and A. J. Pal, "Secure Delivery of Handwritten Signature", ACM Ubiquity Journal, Vol. 7, Issue 40, October 16, 2006, pp. 1-12.
<b>2007</b>	
3	<b>Debnath Bhattacharyya</b> , Samir Kumar Bandyopadhyay and Poulami Das, "Handwritten Signature Watermarking and Extraction Technique Inspired by Principle of Segregation", International Journal of Security and Its Applications (IJSIA), A publication of Science & Engineering Research Support Center, Vol. 1, No. 1, July 2007, Seoul, Korea, pp. 35-44.

<b>2008</b>	
4	<b>Debnath Bhattacharyya</b> , Poulami Das, Samir Kumar Bandyopadhyay, Tai-hoon Kim, "IRIS Texture Analysis and Feature Extraction for Biometric Pattern Recognition", IJDTA - International Journal of Database Theory and Application, A publication of Science and Engineering Research Support Center, December, 2008, Vol. 1, No. 1, pp. 53-60.
5	<b>Debnath Bhattacharyya</b> , Poulami Das, Debashis Ganguly, Swarnendu Mukherjee, Samir Kumar Bandyopadhyay, Tai-hoon Kim, "A Secured Delivery Scheme for Images", IJCA - International Journal of Control and Automation, A publication of Science and Engineering Research Support Center, December, 2008, Vol. 1, No. 1, pp. 35-42.
6	<b>Debnath Bhattacharyya</b> , Poulami Das, Kheyali Mitra, Debashis Ganguly, Purnendu Das, Samir Kumar Bandyopadhyay, Tai-hoon Kim, "Unstructured Documents Categorization: A Study", IJSIP - International Journal of Signal Processing, Image Processing and Pattern Recognition, A publication of Science and Engineering Research Support Center, December, 2008, Vol. 1, No. 1, pp. 55-62.
7	<b>Debnath Bhattacharyya</b> , Samir Kumar Bandyopadhyay, Poulami Das, Debashis Ganguly and Swarnendu Mukherjee, "Statistical Approach for Offline Handwritten Signature Verification", Journal of Computer Science, Science Publications, New York, USA, March 1, 2008, Volume 4, Issue 3, pp. 181-185.
8	Samir Kumar Bandyopadhyay, Poulami Das and <b>Debnath Bhattacharyya</b> , "Statistical Analysis towards Image Recognition", International Journal of Multimedia and Ubiquitous Engineering (IJMUE), A publication of Science & Engineering Research Support Center, Korea, Vol. 3, No. 3, July 2008, pp. 43-54.
9	<b>Debnath Bhattacharyya</b> , "Advanced Defensive Measures to Security Vulnerabilities of VPN Using IPsec", Journal of Security Engineering, (Innovation in Secure and Intelligent Engineering Systems), Vol. 5, No. 2, April 30, 2008, pp. 187-194.
10	<b>Debnath Bhattacharyya</b> , "The Taxonomy of Advanced SCADA Communication Protocols", Journal of Security Engineering, (Innovation in Secure and Intelligent Engineering Systems), Vol. 5, No. 6, December 31, 2008, pp. 517-526.
<b>2009</b>	
11	<b>Debnath Bhattacharyya</b> , Uttam Kumar Dash, Tai-hoon Kim, "Infrastructure Advisory for Information Security", Journal of Security Engineering, (Innovation in Secure and Intelligent Engineering Systems), Vol. 6, No. 2, April 30, 2009, pp. 67-92.
12	<b>Debnath Bhattacharyya</b> , Poulami Dutta, Tai-hoon Kim, "Secure Data Transfer through Audio Signal", Journal of Security Engineering, (Innovation in Secure and Intelligent Engineering Systems), Vol. 6, No. 3, June 30, 2009, pp. 187-194.
13	Arijit Chakraborty, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, "A Secured and Optimized Lane Design", Journal of Security Engineering, (Innovation in Secure and Intelligent Engineering Systems), Vol. 6, No. 3, June 30, 2009, pp. 205-212.
14	Shrotri A., Rethrekar S.C., Patil M.H., <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, "Infrared Imaging of Hand Vein Patterns for Biometric Purposes", Journal of Security Engineering, (Innovation in Secure and Intelligent Engineering Systems), Vol. 6, No. 1, February 28, 2009, pp. 57-66.
15	Sattarova Feruza Y., Tadjibayev Furkhat A. and <b>Debnath Bhattacharyya</b> , "Network Productivity and Quality Indicators of Broadband Connection Channels: a Review", International Journal of Hybrid Information Technology, Vol.2, No.4, October, 2009, pp. 39-52.
16	<b>Debnath Bhattacharyya</b> , and Farkhod Alisherov A., "Penetration Testing for Hire", IJAST - International Journal of Advanced Science and Technology, A publication of Science and Engineering Research Support Center, July, 2009, Vol. 8, No. 1, pp. 1-8.
17	Rumpa Hazra, <b>Debnath Bhattacharyya</b> , Shouvik Dey, Sattarova Feruza Y., and Tadjibayev Furkhat A., "Network Issues in Clock Synchronization on Distributed Database", International Journal of Database Theory and Application, Vol. 2, No. 2, June 2009, pp. 35-54.
18	Julian Dermoudy, Byeong-Ho Kang, <b>Debnath Bhattacharyya</b> , Seung-Hwan Jeon, and Alisherov Farkhod A., "Process of Extracting Uncover Patterns from Data: A Review", International Journal of Database Theory and Application, Vol. 2, No. 2, June 2009, pp. 17-34.
19	Poulami Dutta, Debnath Bhattacharyya, and Tai-hoon Kim, "Data Hiding in Audio Signal: A Review", International Journal of Database Theory and Application, Vol. 2, No. 2, June 2009, pp. 1-8.

20	Kheyali Mitra, <b>Debnath Bhattacharyya</b> , Sattarova Feruza Y., and Tai-hoon Kim, "A Heuristic Approach for Mobile Phone Bases Information Management System in Wireless Sensor Network", International Journal of Grid and Distributed Computing, Vol. 2, No. 3, September, 2009, pp. 1-12.
21	Parichay Chakraborty, <b>Debnath Bhattacharyya</b> , Sattarova Nargiza Y., and Sovan Bedajna, "Green computing: Practice of Efficient and Eco-Friendly Computing Resources", International Journal of Grid and Distributed Computing, Vol. 2, No. 3, September, 2009, pp. 33-38.
22	Deep Malya Mukhopadhyay, Maricel O. Balitanas, Alisherov Farkhod A., Seung-Hwan Jeon, and <b>Debnath Bhattacharyya</b> , "Genetic Algorithm: A Tutorial Review", International Journal of Grid and Distributed Computing, Vol. 2, No. 3, September, 2009, pp. 25-32.
23	<b>Debnath Bhattacharyya</b> , Kheyali Mitra, Minkyu Choi, Rosslin J.Robles, and Debashis Ganguly, "An Approach of XML-ifying the Crude Corpus in the Field of Opinion Mining", International Journal of Grid and Distributed Computing, Vol. 2, No. 3, September, 2009, pp. 13-24.
24	<b>Debnath Bhattacharyya</b> , Shashank Singh, Niraj Satnalika, Ankesh Khandelwal, and Seung-Hwan Jeon, "Nanotechnology, Big things from a Tiny World: a Review", International Journal of u- and e- Service, Science and Technology, Vol. 2, No. 3, September, 2009, pp. 29-38.
25	<b>Debnath Bhattacharyya</b> , Rahul Ranjan, Farkhod Alisherov A., and Minkyu Choi, "Biometric Authentication: A Review", International Journal of u- and e- Service, Science and Technology, Vol. 2, No. 3, September, 2009, pp. 13-28.
26	Poulami Das, <b>Debnath Bhattacharyya</b> , Samir Kumar Bandyopadhyay, Tai-hoon Kim, "Analysis and Diagnosis of Breast Cancer", International Journal of u- and e- Service, Science and Technology, Vol. 2, No. 3, September, 2009, pp. 1-12.
27	<b>Debnath Bhattacharyya</b> , Debasri Chakraborty, Poulami Das, Samir Kumar Bandyopadhyay, Tai-hoon Kim, "Mobile Queries in GIS", IJGDC - International Journal of Grid and Distributed Computing, A publication of Science and Engineering Research Support Center, July, 2009, Vol. 2, No. 2, pp. 1-10.
28	<b>Debnath Bhattacharyya</b> , Arpita Roy, Pranab Roy, Tai-hoon Kim, "Receiver Compatible Data Hiding in Color Image", IJAST - International Journal of Advanced Science and Technology, A publication of Science and Engineering Research Support Center, May, 2009, Vol. 6, No. 1, pp. 15-24.
29	<b>Debnath Bhattacharyya</b> , Jhuma Dutta, Poulami Das, Samir Kumar Bandyopadhyay, Tai-hoon Kim, "Authentication and Secret Message Transmission Technique using Discrete Fourier Transformation", International Journal of Communications, Network and System Sciences, USA, August 2009, Vol. 2, No. 5, pp. 363-370.
30	<b>Debnath Bhattacharyya</b> , Poulami Das, Tai-hoon Kim, Samir Kumar Bandyopadhyay, "Vascular Pattern Analysis towards Pervasive Palm Vein Authentication", The special issue of JUCS - Journal of Universal Computer Science, entitled "Data Security and Privacy Protection in Pervasive Computing environments", June, 2009, Vol. 15, No. 5, pp. 1081-1089. (Impact Factor: 0.788)
31	Poulami Das, <b>Debnath Bhattacharyya</b> , Samir Kumar Bandyopadhyay, Tai-hoon Kim, "Person Identification through IRIS Recognition", IJSIA - International Journal of Security and Its Applications, A publication of Science and Engineering Research Support Center, January, 2009, Vol. 3, No. 1, pp. 129-148.
32	<b>Debnath Bhattacharyya</b> , S. K. Bandyopadhyay, Shanta Phani and Poulami Das, "Information Hiding Using Enzyme Substrate Watermarking Technique", International Journal of Computing and Information Technology, Serials Publication, New Delhi, India, Jan-Jun 2009, Vol. 1, No. 1, pp. 11-22.
33	<b>Debnath Bhattacharyya</b> , Poulami Das, Samir Kumar Bandyopadhyay, Tai-hoon Kim, "Text Steganography: A Novel Approach", IJAST - International Journal of Advanced Science and Technology, A publication of Science and Engineering Research Support Center, February, 2009, Vol. 3, No. 1, pp. 79-86.
<b>2010</b>	
34	Sumana Barman, Amit Kumar Samanta, Tai-hoon Kim and <b>Debnath Bhattacharyya</b> , "Design of a view based approach for Bengali Character recognition", IJAST - International Journal of Advanced Science and Technology, A publication of Science and Engineering Research Support Center, February, 2010, Vol. 15, No. 2, pp. 49-62.
35	Uttam Kumar Dash, Debnath Bhattacharyya, Tai-hoon Kim, "Advisory for Securing Different Assets of an Organization", IJSH - International Journal of Smart Home, A publication of Science and Engineering Research Support Center, January, 2010, Vol. 4, No. 1, pp. 37-56.
36	Kheyali Mitra, <b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, "Urban Computing and Information Management System Using Mobile Phones in Wireless Sensor Network", IJCA - International Journal of Control and Automation, A publication of Science and Engineering Research Support Center, March, 2010,



	Vol. 3, No. 1, pp. 17-26.
37	Ishani Sarkar, Farkhod Alisherov, Tai-hoon Kim, and <b>Debnath Bhattacharyya</b> , "Palm Vein Authentication System: A Review", IJCA - International Journal of Control and Automation, A publication of Science and Engineering Research Support Center, March, 2010, Vol. 3, No. 1, pp. 27-34.
38	Tapan kumar Ghosh, <b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, "To Study Yeast Growth Kinetics in a Specially Designed External Loop Airlift Bioreactor", IJBSBT - International Journal of Bio-Science and Bio-Technology, A publication of Science and Engineering Research Support Center, March, 2010, Vol. 2, No. 1, pp. 47-58.
39	Rituparna Sinha, Sandip Samaddar, <b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, "A Tutorial on Spatial Data Handling", IJDTA - International Journal of Database Theory and Application, A publication of Science and Engineering Research Support Center, March, 2010, Vol. 3, No. 1, pp. 1-12.
40	T. K. Ghosh, <b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, "Effect of Fractional Gas hold-up ( $\epsilon_G$ ) on Volumetric Mass Transfer Co-efficient (KLa) in Modified Airlift Contactor", IJAST - International Journal of Advanced Science and Technology, A publication of Science and Engineering Research Support Center, Vol. 16, March 2010, pp. 21-30.
41	T. K. Ghosh, <b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, "Gas Hold-up Characteristics of an External Loop Airlift Contactor", IJHIT - International Journal of Hybrid Information Technology, A publication of Science and Engineering Research Support Center, Vol. 3, No. 2, April 2010, pp. 25-32.
42	Jayanta Kumar Basu, <b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, "Use of Artificial Neural Network in Pattern Recognition", IJSEIA - International Journal of Software Engineering and Its Applications, A publication of Science and Engineering Research Support Center, Vol. 4, No. 2, April 2010, pp. 23-34. [IF: 0.7621]
43	<b>Debnath Bhattacharyya</b> , Susmita Biswas, and Tai-hoon Kim, "Emerging Approach of Natural Language Processing in Opinion Mining: A Review", IJSH - International Journal of Smart Home, A publication of Science and Engineering Research Support Center, Vol. 4, No. 2, April 2010, pp. 31-38.
44	Shilpi Saha, <b>Debnath Bhattacharyya</b> and Samir Kumar Bandyopadhyay, "Security on Fragile and Semi-fragile Watermarks Authentication", International Journal of Computer Applications, Volume 3, No. 4, June 2010, pp. 23-27. Published By Foundation of Computer Science, USA. (Impact Factor: 0.835)
45	Shilpi Saha, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, and Samir Kumar Bandyopadhyay, "Model Based Threat and Vulnerability Analysis of E-Governance Systems", IJUNESST - International Journal of u- and e- Service, Science and Technology, Vol. 3, No. 2, June, 2010, pp. 7-22.
46	Biman Ray, Anindya J. Pal, <b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, "An Efficient GA with Multipoint Guided Mutation for Graph Coloring Problems", IJSIP - International Journal of Signal Processing, Image Processing and Pattern Recognition, Vol. 3, No. 2, June, 2010, pp. 51-58.
47	Timir Moitra, Anindya J. Pal, <b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, "Noise Reduction in VLSI Circuits using Modified GA Based Graph Coloring", IJCA - International Journal of Control and Automation, Vol. 3, No. 2, June, 2010, pp. 37-44.
48	<b>Debnath Bhattacharyya</b> , Pallabi Chakraborty, Farkhod Alisherov, and Tai-hoon Kim, "Quantum Watermarking: A Review", IJSIA - International Journal of Security and Its Applications, Vol. 4, No. 3, July, 2010, pp. 46-54.
49	T. Maitra, A. J. Pal, Tai-hoon Kim, <b>Debnath Bhattacharyya</b> , "Hybridization of Genetic Algorithm with Bitstream Neurons for Graph Coloring", IJUNESST - International Journal of u- and e- Service, Science and Technology, Vol. 3, No. 3, September, 2010, pp. 37-53.
50	Samit Biswas, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, "Features Extraction and Verification of Signature Image using Clustering Technique", IJSH - International Journal of Smart Home, Vol.4, No.3, July, 2010, pp. 43-56.
51	<b>Debnath Bhattacharyya</b> , Tai-hoon Kim, Subhajit Pal, "A Comparative Study of Wireless Sensor Networks and Their Routing Protocols", Sensors, MDPI Publishing, Basel, Switzerland, Vol. 10, Issue 12, December 2010, pp. 10506-10523. (Impact Factor: 2.048)
52	<b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, "Design of Artificial Neural Network for Handwritten Signature Recognition", International Journal of Computers and Communications, WSEAS Communications, December 12, 2010, Vol. 4, Issue 3, pp. 59-66. <a href="http://www.universitypress.org.uk/journals/cc/">http://www.universitypress.org.uk/journals/cc/</a>
53	Tai-hoon Kim, <b>Debnath Bhattacharyya</b> and Samir Kumar Bandyopadhyay, "Supervised Chromosome Clustering and Image Classification", International Journal of Future Generation Computer Systems, Elsevier, Vol. 27, Number 4, April 2010, pp. 372-376. (Impact Factor: 2.639)

<b>2011</b>	
54	<b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, "Vehicle Track Control", International Journal of Computers, WSEAS Communications, 2011, Vol. 5, Issue 1, pp. 123-131. <a href="http://www.naun.org/journals/computers/">http://www.naun.org/journals/computers/</a>
55	<b>Debnath Bhattacharyya</b> , Tai-hoon Kim, Kheyali Mitra and Samir K. Bandyopadhyay, "Information Management in Wireless Mobile Sensor Network", INFORMATION – An International Interdisciplinary Journal, Published by International Information Institute, Tokyo, Japan, Volume 14, Number 1, January 2011, pp. 167-178. [IF: 2.1035] (Scopus Indexed) <a href="http://www.information-iii.org/abs_e2.html#No1-2011">http://www.information-iii.org/abs_e2.html#No1-2011</a>
<b>2012</b>	
56	<b>Debnath Bhattacharyya</b> , Tai-Hoon Kim and Poulami Dutta, "A Method of Data Hiding in Audio Signal", Journal of Chinese Institute of Engineers (JCIE), Vol. 35. No. 5, May 2012, pp. 523-528. (Impact Factor: 0.295) <a href="http://www.tandfonline.com/doi/abs/10.1080/02533839.2012.679054?journalCode=tcie20">http://www.tandfonline.com/doi/abs/10.1080/02533839.2012.679054?journalCode=tcie20</a>
57	<b>Debnath Bhattacharyya</b> , Samir Kumar Bandyopadhyay, "Diagnosis of Breast Cancer by Image Analysis", International Journal of Emerging Trends in Engineering and Development (IJETED), Issue 2, Vol. 6, September 2012, pp. 216-224. [IF: 5.2]
<b>2013</b>	
58	<b>Debnath Bhattacharyya</b> , Samir Kumar Bandyopadhyay, Tai-hoon Kim, "Diagnosis of breast cancer by tissue analysis", Chinese Journal of Cancer Research, Vol. 25, No. 1, January 2013, pp. 39-45. [IF: 0.932]. <a href="http://www.thecjcr.org/article/view/1364">http://www.thecjcr.org/article/view/1364</a>
69	<b>Debnath Bhattacharyya</b> , Samir Kumar Bandyopadhyay, "Hiding Secret Data in DNA Sequence", International Journal of Scientific and Engineering Research (IJSER), Vol. 4, Issue 2, February 2013, Research Publication IJSER, 10685-B Hazelhurst, Houston, TX 77043, USA. [IF: 1.4]
60	<b>Debnath Bhattacharyya</b> , Anindya J. Pal, Tai-hoon Kim, "Cell-graph coloring for cancerous tissue modelling and classification", Journal of Multimedia Tools and Applications, Springer Publications, Vol. 66, Issue. 2, September, 2013, pp. 229-245. (Impact Factor: 1.058) <a href="http://link.springer.com/article/10.1007/s11042-011-0797-y?wt_mc=alerts.TOCjournals.11042">http://link.springer.com/article/10.1007/s11042-011-0797-y?wt_mc=alerts.TOCjournals.11042</a>
61	K. Bhowal, <b>Debnath Bhattacharyya</b> , A.J. Pal, Tai-hoon Kim, "A GA Based Audio Steganography with Enhanced Security", Springer – Journal of Telecommunication Systems, April, 2013, Vol. 52, Issue 4, pp. 2197-2204. (DOI: 10.1007/s11235-011-9542-0). (Impact Factor: 1.163)
62	<b>Debnath Bhattacharyya</b> , Bijoy Kumar Mandal, Tai-hoon Kim, "Design a Bio Engine for Detection and Analysis to Base String on an Affected Sequence in High Concentration Regions (HCR)", Biometrics and Biosecurity, BioMed Research International, Hindawi Publishing Corporation, 2013. Impact Factor: 2.880
<b>2014</b>	
63	Bijoy Kumar Mandal, <b>Debnath Bhattacharyya</b> and Sungmin Kang, "Attenuation of Signal at a Tropical Location with Radiosonde Data Due to Cloud", International Journal of Smart Home, SERSC, Vol. 8, No. 1, January 2014, pp. 15-22.
64	<b>Debnath Bhattacharyya</b> , Soumita Seth, Tai-hoon Kim, "Social Network Analysis to Detect Inherent Communities based on Constraints", Journal of Applied Mathematics & Information Sciences, Vol. 8, Issue 1, April 2014, pp. 385-396. (Impact Factor: 1.232) (SCI, and SCOPUS Indexed)
65	<b>Debnath Bhattacharyya</b> , Asmita Haveliya, Tai-hoon Kim, "Secure Data Hiding in Binary Text Document for Authentication", Journal of Applied Mathematics & Information Sciences, Vol. 8, Issue 1, April 2014, pp. 371-378. (Impact Factor: 1.232) (SCI, and SCOPUS Indexed)
66	Tanusree Ghosh, <b>Debnath Bhattacharyya</b> , Samir Kumar Bandyopadhyay, Tai-hoon Kim, "A Review on Different Techniques to De-noise a Signal", International Journal of Control and Automation, Vol.7, No.3 (April 2014), pp.349-358. (SCOPUS Indexed). <a href="http://dx.doi.org/10.14257/ijca.2014.7.3.33">http://dx.doi.org/10.14257/ijca.2014.7.3.33</a>
67	Bijoy Kumar Mandal, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, "A Design Approach for Wireless Communication Security in Bluetooth Network", International Journal of Security and Its Applications, Vol.8, No.2 (April 2014), pp.341-352. (SCOPUS Indexed). <a href="http://dx.doi.org/10.14257/ijcia.2014.8.2.35">http://dx.doi.org/10.14257/ijcia.2014.8.2.35</a>
68	Venkata Naresh Mandhala, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, "Eliminating unwanted messages in SNS using Decision tree", International Journal of Database Theory and Application, Vol. 7, No. 3, July 2014, pp.121-130. (EI Compendex)
69	Bijoy Kumar Mandal, <b>Debnath Bhattacharyya</b> , Kil-hwan Shin, "A Security Architecture for Wireless Sensor Networks Environmental", Contemporary Engineering Sciences, Vol. 7, No. 15, 2014, pp. 737-742.

	<a href="http://www.m-hikari.com/ces/ces2014/ces13-16-2014/kilhwanshinCES13-16-2014-2.pdf">http://www.m-hikari.com/ces/ces2014/ces13-16-2014/kilhwanshinCES13-16-2014-2.pdf</a> (Scopus Indexed)
70	Venkata Naresh Mandhala, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, “Hybrid Face Recognition using Image Feature Extractions: A Review”, International Journal of Bio-Science and Bio-Technology, Vol. 6, No. 4, August 2014, pp. 223-234. (Scopus Indexed)
71	Ch. Venkata Rami Reddy, K.V. Krishna Kishore, <b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, “Multi-Feature Fusion based Facial Expression Classification using DLBP and DCT”, International Journal of Software Engineering and Its Applications, Vol. 8. No. 9, September 2014, pp. 55-68. (Scopus Indexed)
72	Ch. Rupa, R. Prathap Kumar, Venkata Naresh Mandhala, <b>Debnath Bhattacharyya</b> , “Performance Evaluation of E2AODV over AODV for Mobile Adhoc Networks”, International Journal of Software Engineering and Its Applications, Vol. 8, No. 8, August 2014, pp. 119-130. (Scopus Indexed)
73	K. Srinivasa Rao, Venkata Naresh Mandhala, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, “An Association Rule hiding Algorithm for Privacy Preserving Data Mining”, International Journal of Control and Automation, Vol. 7, Issue 10, October 2014, pp. 393-403. (SCOPUS Indexed)
74	Soumita Seth, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, “CBACCN: Constraint Based Community discovery in Complex Networks”, International Journal of Applied Engineering Research (IJAER), Vol. 9, No. 23, November 2014, pp. 18115-18127. (SCOPUS Indexed)
75	Dipankar Hazra, <b>Debnath Bhattacharyya</b> , Kil-hwan Shin, "Heuristic and Intermediate Features Based Image Retrieval", Contemporary Engineering Sciences, Vol. 7, no. 32, December 2014, pp. 1731-1738. (SCOPUS Indexed)
<b>Referred Conference Publications</b>	
<b>2007</b>	
1	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> and Poulami Das, “A Flexible ANN System for Handwritten Signature Identification”, Proceedings of the International MultiConference of Engineers and Computer Scientists 2007 Volume II, IMECS '07, March 21 - 23, 2007, Hong Kong, LNCS, pp. 1883-1887.
2	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> and Poulami Das, “Handwritten Signature Verification System using Morphological Image Analysis”, CATA-2007 International Conference, A publication of International Society for Computers and their Applications, Honolulu, Hawaii, USA, March 28-30, 2007, pp. 112-117.
3	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> and Poulami Das, “Handwritten Signature Extraction from Watermarked Images using Genetic Crossover”, MUE'07 IEEE CS Conference, Seoul, Korea, April 27-30, 2007, pp. 987-991.
4	<b>Debnath Bhattacharyya</b> , Samir Kumar Bandyopadhyay and Deepsikha Chaudhury, “Handwritten Signature Authentication Scheme using Integrated Statistical Analysis of Bi-Color Images”, IEEE ICCSA 2007 Conference, Kuala Lumpur, Malaysia, August 26-29, 2007, pp. 72-77.
5	<b>Debnath Bhattacharyya</b> , Samir Kumar Bandyopadhyay and Deepsikha Debnath, “Handwritten Signature Hiding and Extraction using Alternate Bit-Replacement of Bi-Color Images”, IEEE 2007 Asia-Pacific Conference on Communications (APCC 2007), October 18-20, 2007, Bangkok, Thailand, pp. 495-498.
6	<b>Debnath Bhattacharyya</b> , Shanta Phani and Samir Kumar Bandyopadhyay, “Handwritten Signature Hiding and Extraction using Alternate Bit Stuffing”, IEEE International Conference on Intelligent & Advanced Systems – ICIAS'07, November 25-28, 2007, Kuala Lumpur, Malaysia, pp. 591-596.
<b>2008</b>	
7	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> and Poulami Das, “User Authentication by Secured Graphical Password Implementation”, 7th IEEE Asia-Pacific Symposium on Information and Telecommunication Technologies – IEEE APSITT-2008, April 22-24, 2008, Bandos Island, Maldives, pp. 7-12.
8	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> and Poulami Das, “Handwritten Signature Embedding and Extraction using Graph Covering”, International Conference On Emerging Technologies and Applications in Engineering, Technology and Sciences (ICETAETS-2008), 13-14 January 2008, Computer Science Department, Saurashtra University, Rajkot, India, pp. 82-87.
9	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> , Poulami Das, Rimli Mukhopadhyay and Soumen Das, “IRIS Effective Region Extraction and Pattern Generation for Biometric Identification”, IEEE-International conference on Software, Knowledge, Information Management and Application: SKIMA'08, Kathmandu, Nepal, 18-21 March 2008, pp. 88-93.

10	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> , Poulami Das and Deepsikha Debnath, "Handwritten Signature Authentication using Statistical Estimation", IEEE-CS MUE-2008 Conference, Busan, Korea, April 24-27, 2008, pp. 77-82.
11	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> and Poulami Das, "Handwritten Signature Recognition using Departure of Images from Independence", The 3rd IEEE Conference on Industrial Electronics and Applications (ICIEA 2008), 3-5 June 2008, Singapore, Vol. 2, pp. 964-969.
12	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> and Poulami Das, "Quantum Watermarking and Extraction for Handwritten Signature", The 3rd IEEE Conference on Industrial Electronics and Applications (ICIEA 2008), 3-5 June 2008, Singapore, Vol. 2, pp. 959-963.
13	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> , Deepsikha Chaudhury and Poulami Das, "Bi-Color Nonlinear Data Embedding and Extraction of Handwritten Signature", The 3rd IEEE Conference on Industrial Electronics and Applications (ICIEA 2008), 3-5 June 2008, Singapore, Vol. 3, pp. 1896-1901.
14	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> and Poulami Das, "Hybrid Digital-Embedding using Invisible Watermarking", The 3rd IEEE Conference on Industrial Electronics and Applications (ICIEA 2008), 3-5 June 2008, Singapore, Vol. 3, pp. 1881-1885.
15	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> , Poulami Das, Debashis Ganguly and Swarnendu Mukherjee, "A tutorial review on Steganography", International Conference on Contemporary Computing (IC3-2008), Noida, India, August 7-9, 2008, pp. 105-114.
16	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> , Poulami Das, Debashis Ganguly and Swarnendu Mukherjee, "Padding and Zonal Substitution Scheme for Image Watermarking", International Conference on Contemporary Computing (IC3-2008), Noida, India, August 7-9, 2008, pp. 122-127.
17	Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> , Poulami Das, Debashis Ganguly and Swarnendu Mukherjee, "A Secure Scheme for Image Transformation", Ninth IEEE ACIS International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing (ACIS-SNPD 2008), Phuket, Thailand, August 6-8, 2008, pp. 490-493.
<b>2009</b>	
18	<b>Debnath Bhattacharyya</b> and Poulami Das, "Data Hiding for Secure Handwritten Signature Authentication", Proceedings of 96th. Indian Science Congress, 3-7 January, 2009, North Eastern Hill University (NEHU), Shillong, India, pp. 4 (Innovating Computing).
19	<b>Debnath Bhattacharyya</b> , Poulami Das, K. Mitra, D. Ganguly, S. Mukherjee, Samir Kumar Bandyopadhyay and Tai-hoon Kim, "A Novel Approach for Refinement of Corpus in the Field of Opinion Mining", IEEE International Conference on Future Networks (IEEE ICFN-2009), 7-9 March 2009, Bangkok, Thailand, pp. 281-285.
20	<b>Debnath Bhattacharyya</b> , Poulami Das, D. Ganguly, S. Mukherjee, Samir Kumar Bandyopadhyay and Tai-hoon Kim, "A Multi Layer Security Model for Text Messages", IEEE International Advanced Computing Conference (IACC 2009), 6-8 March 2009, Patiala, India, pp. 697-702.
21	Rajib Ghosh, <b>Debnath Bhattacharyya</b> and Samir Kumar Bandyopadhyay, "Segmentation of Online Bangla Handwritten Word", IEEE International Advanced Computing Conference (IACC 2009), 6-8 March 2009, Patiala, India, pp. 777-782.
22	Debasri Chakraborty, <b>Debnath Bhattacharyya</b> , Poulami Das, Samir Kumar Bandyopadhyay and Tai-hoon Kim, "Implementation of Mobile Queries in GIS", National Seminar cum Workshop on Distributed Computing, 6-7 March, 2009, SMIT, Sikkim, India.
23	<b>Debnath Bhattacharyya</b> , Poulami Das, K. Mitra, D. Ganguly, S. Mukherjee, Samir Kumar Bandyopadhyay and Tai-hoon Kim, "A Novel Approach for Designing Indian Regional Language Based Raw-Text Extractor and Unicode Font-Mapping Tool", IEEE AST-2009, March 7 ~ March 9, 2009, Daejeon, Korea, pp. 24-29.
24	<b>Debnath Bhattacharyya</b> , Jhuma Dutta, Poulami Das, R. Bandyopadhyay, Samir Kumar Bandyopadhyay, Tai-hoon Kim, "Discrete Fourier Transformation based Image Authentication Technique", The 8th IEEE International Conference on Cognitive Informatics, June 15-17, 2009, The Hong Kong Polytechnic University, Hong Kong, pp. 196-200.
25	<b>Debnath Bhattacharyya</b> , Jhuma Dutta, Poulami Das, Samir Kumar Bandyopadhyay, Tai-hoon Kim, "Discrete Cosine Transformation based Image Authentication and Secret Message Transmission scheme", International Conference on Computational Intelligence, Communication Systems and Networks (CICSyN 2009), 23-25 July, 2009, Indore, India, pp. 374-379.
26	<b>Debnath Bhattacharyya</b> , Poulami Das, D. Ganguly, S. Mukherjee, K. Mitra, S. K. Bandyopadhyay, Tai-hoon Kim, "Refine Crude Corpus for Opinion Mining", International Conference on Computational Intelligence, Communication Systems and Networks (CICSyN 2009), 23-25 July, 2009, Indore, India, pp.

	17-22.
27	<b>Debnath Bhattacharyya</b> , Poulami Das, D. Ganguly, K. Mitra, S. Mukherjee, S. K. Bandyopadhyay and Tai-hoon Kim, "A Heuristic Approach for Designing Regional Language Based Raw-Text Extractor and Unicode Font-Mapping Tool", Communications in Computer and Information Science, Springer, November 02, 2009, Vol. 28, pp. 1-12.
28	<b>Debnath Bhattacharyya</b> , Poulami Das, D. Ganguly, K. Mitra, Purnendu Das, S. K. Bandyopadhyay and Tai-hoon Kim, "In search of Unstructured Documents Categorization", Communications in Computer and Information Science, Springer, November 02, 2009, Vol. 27, pp. 116-125.
29	<b>Debnath Bhattacharyya</b> , Poulami Das, D. Ganguly, S. Mukherjee, S. K. Bandyopadhyay and Tai-hoon Kim, "A Secured Technique for Image Data Hiding", Communications in Computer and Information Science, Springer, November 02, 2009, Vol. 29, pp. 151-159.
30	<b>Debnath Bhattacharyya</b> , Poulami Das, Samir Kumar Bandyopadhyay and Tai-hoon Kim, "Feature Extraction for IRIS Recognition", Communications in Computer and Information Science, Springer, November 02, 2009, Vol. 29, pp. 31-39.
31	<b>Debnath Bhattacharyya</b> , Poulami Das, Samir Kumar Bandyopadhyay and Tai-hoon Kim, "Analysis of Handwritten Signature Image", SecTech 2009, December 10-12, 2009, Jeju Island, Korea, Communications in Computer and Information Science (CCIS), Book: Security Technology, Number 58, Springer-Verlag, Berlin, Heidelberg 2009, pp. 43-50.
32	<b>Debnath Bhattacharyya</b> , Poulami Das, Samir Kumar Bandyopadhyay and Tai-hoon Kim, "Grayscale Image Classification using Supervised Chromosome Clustering", SecTech 2009, December 10-12, 2009, Jeju Island, Korea, Communications in Computer and Information Science (CCIS), Book: Security Technology, Number 58, Springer-Verlag, Berlin, Heidelberg 2009, pp. 64-71.
33	<b>Debnath Bhattacharyya</b> , Debasri Chakraborty and Tai-hoon Kim, "Effective GIS Mobile Query System", International Mega-Conference on Future Generation Information Technology (FGIT 2009), December 10-12, 2009, Jeju Island, Korea, Communications in Computer and Information Science (CCIS), Number 58, Springer-Verlag, Berlin, Heidelberg 2009, pp. 130-138.
34	<b>Debnath Bhattacharyya</b> , Rahul Ranjan and Tai-hoon Kim, "Biometric Authentication Techniques and its Future Possibilities", IEEE International Conference on Computer and Electrical Engineering (ICCEE 2009), December 28-30, 2009, Dubai, UAE, pp. 652-655.
35	<b>Debnath Bhattacharyya</b> , Debasri Chakraborty, Samir Kumar Bandyopadhyay and Tai-hoon Kim, "GIS and Mobile Query", IEEE International Conference on Computer and Electrical Engineering (ICCEE 2009), December 28-30, 2009, Dubai, UAE, pp. 648-651.
<b>2010</b>	
36	<b>Debnath Bhattacharyya</b> , Rosslin John Robles, Tai-hoon Kim, and Samir Kumar Bandyopadhyay, "Feature Extraction and Analysis of Breast Cancer Specimen", The 2nd International Conference on Advanced Communication and Networking (ACN-2010), June 23 - 25, 2010, Miyazaki, Japan, published by Springer, CCIS, Vol. 77, pp. 30-41.
37	<b>Debnath Bhattacharyya</b> , Poulami Dutta, Maricel O. Balitanas, Tai-hoon Kim, and Purnendu Das, "Hiding Data in Audio Signal", The 2nd International Conference on Advanced Communication and Networking (ACN-2010), June 23 - 25, 2010, Miyazaki, Japan, published by Springer, CCIS, Vol. 77, pp. 23-29.
38	Sumana Barman, <b>Debnath Bhattacharyya</b> , Seung-whan Jeon, Tai-hoon Kim, and Haeng-Kon Kim, "A New Experiment on Bengali Character Recognition", The 2010 International Conference on Ubiquitous Computing and Multimedia Applications (UCMA 2010), June 23 - 25, 2010, Miyazaki, Japan, published by Springer, CCIS, Vol. 75, pp. 20-28.
39	<b>Debnath Bhattacharyya</b> , A. Shrotri, S.C. Rethrekar, M.H. Patil, Farkhod A. Alisherov, and Tai-hoon Kim, "Biometric Authentication Using Infrared Imaging of Hand Vein Patterns", The 4th International Conference on Information Security and Assurance (ISA 2010), June 23 - 25, 2010, Miyazaki, Japan, published by Springer, CCIS, Vol. 76, pp. 108-115.
40	<b>Debnath Bhattacharyya</b> , Arup Kumar Bhaumik, Minkyu Choi, and Tai-hoon Kim, "Directed Graph Pattern Synthesis in LSB Technique on Video Steganography", The 4th International Conference on Information Security and Assurance (ISA 2010), Miyazaki, Japan, published by Springer, LNCS, Vol. 6059, pp. 61-69.
41	<b>Debnath Bhattacharyya</b> , Arijit Chakraborty, Feruza Sattarova, Young-hun Lee, and Tai-hoon Kim, "Lane Design for Speed Optimization", The 4th International Conference on Information Security and Assurance (ISA 2010), June 23 - 25, 2010, Miyazaki, Japan, published by Springer, CCIS, Vol. 76, pp. 97-107.

42	Subhajit Pal, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, “Energy Efficient, Chain based Clustering Routing Protocol for Wireless Sensor Networks”, International Conference on Security-enriched Urban Computing and Smart Grid (SUComS-2010), published by Springer (CCIS), September 15-17, 2010, Daejeon, Republic of Korea, pp. 472-481.
43	Subhajit Pal, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, “Chain based Hierarchical Routing Protocol for Wireless Sensor Networks”, International Conference on Security-enriched Urban Computing and Smart Grid (SUComS-2010), published by Springer (CCIS), September 15-17, 2010, Daejeon, Republic of Korea, pp. 482-492.
44	Samit Biswas, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, Samir Kumar Bandyopadhyay, “Extraction of Features from Signature Image and Signature Verification using Clustering Techniques”, International Conference on Security-enriched Urban Computing and Smart Grid (SUComS-2010), published by Springer (CCIS), September 15-17, 2010, Daejeon, Republic of Korea, pp. 493-503.
45	S.K. Bandyopadhyay, S. Roy, <b>Debnath Bhattacharyya</b> and Tai-hoon Kim, "Symmetric Cryptosystem for Information Security", IEEE Computational Intelligence Society-2nd international Conference on IT & Business Intelligence (ITBI-10), November 12–14, 2010, Nagpur, India, pp. 1-7. <a href="http://imtcj.ac.in/ITBI%2010%20Proceedings/">http://imtcj.ac.in/ITBI%2010%20Proceedings/</a>
46	Subhajit Pal, <b>Debnath Bhattacharyya</b> , Geetam S. Tomar, Tai-hoon Kim, “Wireless Sensor Networks and its Routing Protocols- A Comparative Study”, 2010 International Conference on Computational Intelligence and Communication Systems (IEEE-CICN 2010), November 26-28, 2010, Bhopal, India, pp. 314-319.
47	Samir Kumar Bandyopadhyay, Indra Kanta Moitra, Debnath Bhattacharyya, Tai-hoon Kim, “Reserved Fields of Palette for Data Hiding Steganography”, 2010 International Conference on Computational Intelligence and Communication Systems (IEEE-CICN 2010), November 26-28, 2010, Bhopal, India, pp. 398-402.
48	Subhra Pramanik, Samir Kumar Bandyopadhyay, <b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, "Identification of Plant Using Leaf Image Analysis", International Conference on Multimedia, Computer Graphics and Broadcasting (MulGraB 2010), December 13 ~ 15, 2010, Communications in Computer and Information Science, Springer, Vol. 123, Jeju Island, Korea, pp. 291-303.
49	Shilpi Saha, <b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, "OSI Layer Wise Security Analysis of Wireless Sensor Network", International Conference on Multimedia, Computer Graphics and Broadcasting (MulGraB 2010), December 13 ~ 15, 2010, Communications in Computer and Information Science, Springer, Vol. 123, Jeju Island, Korea, pp. 276-282.
50	Rituparna Samaddar, Sandip Samaddar, Tai-hoon Kim, and <b>Debnath Bhattacharyya</b> , "Hierarchical Data Structures for Accessing Spatial Data", International Conference on Multimedia, Computer Graphics and Broadcasting (MulGraB 2010), December 13 ~ 15, 2010, Communications in Computer and Information Science, Springer, Vol. 123, Jeju Island, Korea, pp. 267-274.
51	<b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, “Signature Recognition using Artificial Neural Network”, The 9th WSEAS International Conference on COMPUTATIONAL INTELLIGENCE, MAN-MACHINE SYSTEMS and CYBERNETICS (CIMMACS '10), University of Los Andes, Merida, Venezuela, December 14-16, 2010, pp. 183-187.
52	P. Ghosal, A. Chakraborty, A. Das, Tai-hoon Kim, <b>Debnath Bhattacharyya</b> , “Design of Non Accidental Lane”, The 9th WSEAS International Conference on COMPUTATIONAL INTELLIGENCE, MAN-MACHINE SYSTEMS and CYBERNETICS (CIMMACS '10), University of Los Andes, Merida, Venezuela, December 14-16, 2010, pp. 188-192.
53	<b>Debnath Bhattacharyya</b> , “SIG-PASSWORD” - Design and Analysis of Authentication Scheme for Graphical Password, International Conference on Computer Applications (ICCA-2010), December 24-27, 2010, Pondicherry, India, pp. 327-336.
<b>2011</b>	
54	<b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, “Similarity Checking of Handwritten Signature using Binary dotplot Analysis”, UCMA-2011, April 13-15, 2011, Hannam University, Korea, Springer CCIS, Vol. 151, pp. 299-306.
55	<b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, “Brain Tumor Detection using MRI Image Analysis”, UCMA-2011, April 13-15, 2011, Hannam University, Korea, Springer CCIS, Vol. 151, pp. 307-314.
56	<b>Debnath Bhattacharyya</b> , and Tai-hoon Kim, “Image Data Hiding Technique using Discrete Fourier Transformation”, UCMA-2011, April 13-15, 2011, Hannam University, Korea, Springer CCIS, Vol. 151, pp. 315-323.

57	P. Upadhyay, S. Barman, <b>Debnath Bhattacharyya</b> , M. Dixit, "Enhanced Bangla Character Recognition using ANN", IEEE CSNT-2011, SMVD University, Katra, Jammu, India, June 3-5, 2011, pp. 194-197.
58	G.S. Tomar, T. Sharma, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, "Performance Comparison of AODV, DSR and DSDV under Various Network Conditions: A Survey", The 2nd International Conference Ubiquitous Computing and Multimedia Applications (IEEE UCMA-2011), April 13-15, 2011, Hannam University, Daejeon, Korea, pp. 3-7.
59	<b>Debnath Bhattacharyya</b> , Ronnie Caytiles, Yvette Gelogo, Seung-Hwan Jeon and Tai-hoon Kim, "Magnetic Resonance Imaging for Brain Tumor Detection", 2011 KIIT Summer Conference, May 26-28, 2011, Korea, pp. 408-411.
60	<b>Debnath Bhattacharyya</b> , Ronnie Caytiles, Yvette Gelogo, Mi-Jeon Yang and Tai-hoon Kim, "DFT processing for Image Data Hiding", 2011 KIIT Summer Conference, May 26-28, 2011, Korea, pp. 1-3.
61	<b>Debnath Bhattacharyya</b> , Ronnie Caytiles, Yvette Gelogo, Minkyu Choi and Tai-hoon Kim, "Hiding sensitive information in JPEG", 2011 KIIT Summer Conference, May 26-28, 2011, Korea, pp. 4-7.
62	P. Upadhyay, <b>Debnath Bhattacharyya</b> , S. Barman, "Compound Character Recognition using View-based Approach", IEEE International Conference on Computational Intelligence and Communication Networks (CICN-2011), Gwalior, India, October 7-9, 2011.
63	<b>Debnath Bhattacharyya</b> , Tai-hoon Kim, Gang-soo Lee, "Leaf Image Analysis towards Plant Identification", International Conference on Signal Processing, Image Processing and Pattern Recognition, Communications in Computer and Information Science, 2011, Volume 260, December 8 ~ 10, 2011, Jeju Island, Korea, pp. 113-125.
64	<b>Debnath Bhattacharyya</b> , Tai-hoon Kim, Gang-soo Lee, "Watermarking using Multiresolution Cosine Transformation: A Review", International Conference on Signal Processing, Image Processing and Pattern Recognition, Communications in Computer and Information Science, 2011, Volume 260, December 8 ~ 10, 2011, Jeju Island, Korea, pp. 126-139.
65	<b>Debnath Bhattacharyya</b> , Tai-hoon Kim, Gang-soo Lee, "Use of Artificial Neural Network in Bengali Character Recognition", International Conference on Signal Processing, Image Processing and Pattern Recognition, Communications in Computer and Information Science, 2011, Volume 260, December 8 ~ 10, 2011, Jeju Island, Korea, pp. 140-152.
66	R. Ghosh, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, Gang-soo Lee, "New Algorithm for Skewing Detection of Handwritten Bangla Words", International Conference on Signal Processing, Image Processing and Pattern Recognition, Communications in Computer and Information Science, 2011, Volume 260, December 8 ~ 10, 2011, Jeju Island, Korea, pp. 153-159.
67	N. Mukherjee, I. Mukherjee, <b>Debnath Bhattacharyya</b> and Tai-hoon Kim, "Context Based Speech Analysis of Bengali Language as a Part of TTS Conversion", International Conference on Signal Processing, Image Processing and Pattern Recognition, Communications in Computer and Information Science, 2011, Volume 260, December 8 ~ 10, 2011, Jeju Island, Korea, pp. 204-214.
<b>2012</b>	
68	<b>Debnath Bhattacharyya</b> , Asmita Haveliya, "A Robust Method for Data Hiding via Combination of Colour Images and PDF Files", 2012 IEEE International Conference on Communication Systems and Network Technologies (CSNT), Rajkot, India, May 11-13, 2012, pp. 909-912.
69	R. Biswas, <b>Debnath Bhattacharyya</b> , S.K. Bandyopadhyay, "Command and Control (C2) Network for Disaster Management", 2012 International Conference on Communication Systems and Network Technologies (CSNT), Rajkot, India, May 11-13, 2012, pp. 945-949.
70	S. Seth, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, "Constraint-Based Clustering to Find Communities in a Social Network", International Conference on Information Science and Industrial Applications (ISI-2012), May 29-31, 2012, Cebu, Philippines.
71	Asmita Haveliya, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, "Secure Data Hiding in Binary text Document for Authentication", International Conference on Information Science and Industrial Applications (ISI-2012), May 29-31, 2012, Cebu, Philippines.
72	R. Biswas, <b>Debnath Bhattacharyya</b> , Samir Kumar Bandyopadhyay, "Rapidly Deployable Ad-hoc Network (RADAN) Architecture for Crisis Handling -- A Generic Design", IEEE - International Conference on Computational Intelligence and Communication Networks (IEEE CICN-2012), November 3-5, 2012, Mathura, India, pp. 174-178.
<b>2013</b>	

73	B.K. Mandal, <b>Debnath Bhattacharyya</b> , Samir Kumar Bandyopadhyay, "Designing and Performance Analysis of a Proposed Symmetric Cryptography Algorithm", IEEE-International Conference on Communication Systems and Network Technologies (IEEE CSNT-2013), April 5-8, 2013, Gwalior, India, pp. 453-461.
74	<b>Debnath Bhattacharyya</b> , Bijoy Kumar Mandal, "Wireless Laser Torch-Based Voice Transmitter and Receiver", International Conference on Convergence and its Application (ICCA 2013), Advanced Science and Technology Letters, Vol. 30, November 27-29, 2013, Jeju Island, Korea, pp. 203-210.
75	<b>Debnath Bhattacharyya</b> , Bijoy Kumar Mandal, "Ad hoc Network Security Solutions for Jini Technology Based Application", International Conference on Convergence and its Application (ICCA 2013), Advanced Science and Technology Letters, Vol.30, November 27-29, 2013, Jeju Island, Korea, pp. 187-199.
76	Bijoy Kumar Mandal, <b>Debnath Bhattacharyya</b> , Sungmin Kang, "Attenuation of Signal at a Tropical Location with Radiosonde Data Due To Cloud", International Conference on Convergence and its Application (ICCA 2013), Advanced Science and Technology Letters, Vol. 30, November 27-29, 2013, Jeju Island, Korea.
<b>Accepted:</b>	
1	Venkata Naresh Mandhala, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, "Face Recognition by Classification using Radial Basis Function", Contemporary Engineering Sciences, April 2015 Issue. (Scopus Indexed)
2	K.B.S. Sastry, R. Satya Prasad, <b>Debnath Bhattacharyya</b> , Tai-Hoon Kim, "Project Management System Using ACEM: Advanced Cost Estimation Model", 14th International Conference on Software Engineering, Parallel and Distributed Systems (SEPADS '15), Dubai, UAE, February 22-24, 2015. (ISI-Thomson Reuters, Scopus, Elsevier, ACM, EI Compendex Indexed)
3	Swalpa Kr. Roy, Aditya N. Hati, <b>Debnath Bhattacharyya</b> , Tai-Hoon Kim, "Real Parameter Optimization Using a Hybrid Algorithm of Differential Evolution and Exploratory Move", 14th International Conference on Software Engineering, Parallel and Distributed Systems (SEPADS '15), Dubai, UAE, February 22-24, 2015. (ISI-Thomson Reuters, Scopus, Elsevier, ACM, EI Compendex Indexed)
4	Dipankar Hazra, <b>Debnath Bhattacharyya</b> , Tai-hoon Kim, "Artificial Neural Network based Relevance Feedback for Intermediate Feature Based Image Retrieval", 9th International Conference on Computer Engineering and Applications (CEA '15), Dubai, UAE, February 22-24, 2015. (ISI-Thomson Reuters, Scopus, Elsevier, ACM, EI Compendex Indexed)
5	Papiya Chakraborty, <b>Debnath Bhattacharyya</b> , Tai-Hoon Kim, "An Effective Histogram Equalization Method by Changing Pixel Value with the Help of Cumulative Frequency", 9th International Conference on Computer Engineering and Applications (CEA '15), Dubai, UAE, February 22-24, 2015. (ISI-Thomson Reuters, Scopus, Elsevier, ACM, EI Compendex Indexed)