

BRIEF RESUME



1. **Name** : **Dr. Rituparna Chaki**
2. **Affiliation with designation** : Professor
A K Choudhury School of IT
University of Calcutta, India
&
Visiting Professor, AGH University of Sc&, Tech.,
Poland
3. **Email Address** : rchaki@ieee.org
4. **Homepage** : [http://akcsit.in/Professors/Rituparna%20Chaki/
Home.html](http://akcsit.in/Professors/Rituparna%20Chaki/Home.html)
5. **Academic Background** : Ph.D.(2003), Jadavpur University
M.Tech. (1997), (CSE), University of Calcutta
B.Tech. (1995), (CSE), University of Calcutta
B.Sc. (1991), (Comp. Sc.) ,D.M. College, Manipur
6. **Work Experience** :
 - *Systems Executive, Joint Plant Committee, 1997-2005*
 - *Reader/ Associate Professor in West Bengal University of Technology, Kolkata, 2005-2013*
 - *Associate Professor/Professor, **University of Calcutta**, 2013--till date*
 - *Visiting Professor, AGH University of Sc. & Technology, Poland, 2013- till date*
7. **Publication Summary (2009-till date)** : Books and Edited Volumes:**05**
(Springer/CRC Press)
Editorial BoardMember of International Journal: **6**
International Patents:**1**
Papers in InternationalJournals: **09**
Papers inreferred Int'l Conferences:**42**
H-index: **10**
8. **Areas of Research Interest** : Wireless Networking,DistributedSystem,
Biometrics security
9. **Major International Collaborations**
 - Visiting Professor, AGH University of Science & Technology, Cracow, Poland.
 - Collaboration on *Biometrics* with Prof. Khalid Saeed, Bialystok University of Science &Warsaw University of Technology,Poland

10. Selected Publications :

- Debdutta Roy Barman, **Rituparna Chaki**, Nabendu Chaki, “BHIDS: A New Cluster Based Algorithm for Black Hole IDS”, **Wiley Journal of Security and Comm. Networks**, vol. 3(2-3), Sep. 2009, pp 278-289, ISSN: 1939-0122.
- **Ammlan Ghosh, Rituparna Chaki, Nabendu Chaki**, “ A new concurrency control mechanism for multi-threaded environment using transactional memory”, Springer Journal of Supercomputing Vol. 71 (11), Sep. 2015, pp. 4095-4115, ISSN: 0920-8542.
- **AK Das, Rituparna Chaki, K N Dey**, “ Secure Energy Efficient Routing (SEER) Protocol for Wireless Sensor Network”, Foundations of Computing and Decision Sciences, 2016

11. Supervision of Ph.D. work :

- Number of students completed Ph.D. : **3**
- Number of students currently registered for Ph.D. : **7**

12. Invited Lectures and Chairmanships at National or International Conference/Seminar

| Sl. No. | Title of Lecture / Academic Session | Title of Conference / Seminar | Organized by |
|---------|--|---|--|
| 1 | Ambient Intelligence | Int’l Conference on Information System and Industrial Management (CISIM), Krakow, Poland, 2010 | AGH University of Sc. and Tech., Poland |
| 2 | Co-Chair, Organizing Committee (2 co-chairs) | Int’l Conference on Information System and Industrial Management (CISIM), Kolkata, India, 2011 | University of Calcutta, India |
| 3 | Co-Chair, Program Committee (2 co-chairs) | Doctoral Symposium on Applied Computation and Security Systems (ACSS), 2014 | University of Calcutta, India |
| 4 | Member , Program Committee | 9 th IEEE International Conference on Computer Information Systems and Industrial Management Applications (CISIM). | AGH University of Sc. & Tech, Poland |
| 5. | Advisory Chair | Int’l Conference on Information System and Industrial Management (CISIM), Czech Republic , 2016 | Bialystok University of Technology |
| 6 | Member , Program Committee | ACIIDS 2017, Japan | Wrocław University of Science and Technology, Poland |

14. Reviewer of Journals (Selected):

- **Journal of Information Sciences (INS)**
- **Elsevier Journal of Pervasive and Mobile Computing**
- **Journal of Network and Computer Applications**
- **Journal of Computers & Electrical Engineering**
-

15. Awards:

- Best paper award in the 15th International Conference on Computer Information Systems and Industrial Management Applications (CISIM), November, 2014, Ho Chi Minh City, Vietnam
-

16. Membership of Professional Bodies:

- ACM Professional Chapter, Kolkata, India
- **Senior Member**, IEEE
- **Member**, IEEE Computer Society, IEEE Communications Society
- **Life Member**, Indian Science Congress

LIST OF PUBLICATIONS

| | |
|--|-----------|
| Books | 02 |
| Edited Proceedings/Books with Springer/IEEE | 08 |
| International Journals | 20 |
| International Conference Proceedings | 53 |

Books: 02

- [BK-01] Ryszard Tadeusiewicz, Rituparna Chaki, Nabendu Chaki; "Exploring neural networks with C"; CRC Press, Taylor & Francis Group, 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, Florida 33487, U.S.A, September 2014. **ISBN: 978-1-4822-3339-1.**
- [BK-02] Nabendu Chaki, Rituparna Chaki; "Intrusion Detection in Wireless Ad-Hoc Networks"; CRC Press, Taylor & Francis Group, 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, Florida 33487, U.S.A, January 2014. **ISBN: 978-14-665-1565-9.**

Edited Volumes with Springer/IEEE: 10

2019

- [EV-01] Rituparna Chaki, Agostino Cortesi, Khalid Saeed, Nabendu Chaki (Eds.); Proceedings for the 5th International Doctoral Symposium on Applied Computation and Security Systems (ACSS), vol. 8, August 2018, Kolkata, India. **Springer Advances in Intelligent Systems and Computing (AISC) Series**, vol. 883, 2017. **ISBN: 978-981-17-3701-7.**
- [EV-02] Rituparna Chaki, Agostino Cortesi, Khalid Saeed, Nabendu Chaki (Eds.); Proceedings for the 5th International Doctoral Symposium on Applied Computation and Security Systems (ACSS), vol. 7, August 2018, Kolkata, India. **Springer Advances in Intelligent Systems and Computing (AISC) Series**, vol. 897, 2019. **ISBN: 978-981-13-3249-4.**

2017

- [EV-03] Khalid Saeed, Władysław Homenda, Rituparna Chaki, (Eds.); **Springer LNCS** Proceedings of the 16th IFIP International Conference, CISIM 2017, Bialystok, Poland, Lecture Notes in Computer Science (LNCS), Vol. 10244, 2017. **ISBN: 978-3-319-59105-6.**
- [EV-04] Rituparna Chaki, Khalid Saeed, Agostino Cortesi, Nabendu Chaki (Eds.); Proceedings for the 4th International Doctoral Symposium on Applied Computation and Security Systems (ACSS), vol. 5, August 2016, Kolkata, India. **Springer Advances in Intelligent Systems and Computing (AISC) Series**, vol. 567, 2017. **ISBN: 978-981-10-3409-1.**
- [EV-05] Rituparna Chaki, Khalid Saeed, Agostino Cortesi, Nabendu Chaki (Eds.); Proceedings for

the 4th International Doctoral Symposium on Applied Computation and Security Systems (ACSS), vol. 6, August 2016, Kolkata, India. **Springer** Advances in Intelligent Systems and Computing (AISC) Series, vol. 568, 2017. **ISBN: 978-981-10-3390-2**.

2016

[EV-06] Rituparna Chaki, Agostino Cortesi, Khalid Saeed, Nabendu Chaki (Eds.); Proceedings for the 2nd International Doctoral Symposium on Applied Computation and Security Systems (ACSS), vol. 3, May 2015, Kolkata, India. **Springer** Advances in Intelligent Systems and Computing (AISC) Series, vol. 395, 2016. **ISBN: 978-81-322-2648-2**.

[EV-07] Rituparna Chaki, Agostino Cortesi, Khalid Saeed, Nabendu Chaki (Eds.); Proceedings for the 2nd International Doctoral Symposium on Applied Computation and Security Systems (ACSS), vol. 4, May 2015, Kolkata, India. **Springer** Advances in Intelligent Systems and Computing (AISC) Series, vol. 396, 2016. **ISBN: 978-81-322-2651-2**.

2015

[EV-08] Rituparna Chaki, Khalid Saeed, Sankhayan Choudhury, Nabendu Chaki (Eds.); Proceedings for the International Doctoral Symposium on Applied Computation and Security Systems (ACSS), vol. 1, April 2014, Kolkata, India. **Springer** Advances in Intelligent Systems and Computing (AISC) Series, vol. 305, 2016. **ISBN: 978-81-322-1984-2**.

[EV-09] Rituparna Chaki, Khalid Saeed, Sankhayan Choudhury, Nabendu Chaki (Eds.); Proceedings for the International Doctoral Symposium on Applied Computation and Security Systems (ACSS), vol. 2, April 2014, Kolkata, India. **Springer** Advances in Intelligent Systems and Computing (AISC) Series, vol. 305, 2016. **ISBN: 978-81-322-1987-3**.

2013

[EV-10] Khalid Saeed, Rituparna Chaki, Agostino Cortesi, Sławomir Wierzchoń (Eds.); **Springer LNCS** Proceedings of the 12th IFIP International Conference, CISIM 2013, Poland, Vol. 8104, 2013. **ISBN: 978-3-642-40924-0**.

International Journal Papers: 23

2018

[JP-01] T Bhattasali, R Chaki, N Chaki; "An adaption of context and trust aware workflow oriented access control for remote healthcare", International Journal of Software Engineering and Knowledge Engineering, pp 781-810.

2017

[JP-02] Ammlan Ghosh, Rituparna Chaki, Nabendu Chaki; " CMS: Checkpoint-based Multi-versioning System for Software Transactional Memory"; Springer, Progress in Intelligent Computing Techniques: Theory, Practice, and Applications; pp 471-482, Singapore, 2017

2016

[JP-03] Ayan Kumar Das, R Chaki, KN Dey, "Secure energy efficient routing protocol for wireless sensor network", Foundations of Computing and Decision Sciences 41 (1), 3-27, 2006.

[JP-04] Ayan Kumar Das, R Chaki, KN Dey , "Cluster-based energy-aware routing scheme (CBEARS) for wireless sensor network", International Journal of Sensor Networks 21 (4), 262-272, 2006.

2015

[JP-05] Ammlan Ghosh, Rituparna Chaki, Nabendu Chaki; "A New Concurrency Control Mechanism for Multi-threaded Environment using Transactional Memory"; The Journal of Supercomputing, **Springer**; vol. 71(11), pp. 4095-4115, October 2015. **ISSN: 0920-8542**.

[JP-06] Tapalina Bhattasali, Piotr Panasiuk, Khalid Saeed, Nabendu Chaki, Rituparna Chaki,

"Modular Logic of Authentication Using Dynamic Keystroke Pattern Analysis"; Applied Mathematics and Information Science, Natural Science Publishing; accepted in July 2015. [ISSN: 1935-0090](#).

2014

- [JP-07] Rohit Bhadauria, Rituparna Chaki, Nabendu Chaki, Sugata Sanyal; "Security Issues in Cloud Computing"; Acta Technica Corviniensis-Bulletin of Engineering; vol. 7(4), 159-177, Oct. 2014. [ISSN: 2067-3809](#).
- [JP-08] Tapalina Bhattasali, Khalid Saeed, Nabendu Chaki, Rituparna Chaki; "Bio-Authentication for Layered Remote Health Monitor Framework"; Journal of Medical Informatics and Technologies, Poland, pp. 131-140, Vol. 23, November 2014. [ISSN: 1642-6037](#).
- [JP-09] A Sharma, P Sharma, R Chaki, U Bhattacharya, Reducing call blocks in cellular network with non-uniform traffic conditions, Foundations of Computing and Decision Sciences 39 (4), 301-318.
- [JP-10] R Bhadauria, R Chaki, N Chaki, S Sanyal, Security issues in cloud computing”, Acta technica corviniensis-bulletin of engineering 7 (4), 159, Fascicule 4 [October – December], 2014, [ISSN: 2067 – 3809](#)
- [JP-11] D Sinha, U Bhattacharya, R Chaki, RSRP: “A robust secure routing protocol in MANET”, Foundations of Computing and Decision Sciences 39 (2), 129-154.
- [JP-12] D Sinha, U Bhattacharya, R Chaki, “A Novel Secure Routing Protocol in MANET”, Handbook of Research on Progressive Trends in Wireless Communications and Networking, pp 293-316, IGI global.

2013

- [JP-13] D Sinha, U Bhattacharya, R Chaki, , “Clar: A novel cluster oriented agent based routing protocol for manet”, Foundations of Computing and Decision Sciences 38 (1), pp 3-23, 2013.

2012

- [JP-14] A K Das, R Chaki, “Energy efficient multievent routing in wsn”, International Journal of Advanced Smart Sensor Network Systems (IJASSN) 2 (4), pp 11-22, [DOI: 10.5121/ijassn, 2012](#).
- [JP-15] DB Roy, R Chaki, “BAIDS: Detection of Blackhole Attack in MANET by Specialized Mobile Agent”, International Journal of Computer Applications 40 (13), 1-6, [ISSN: 0975-8887](#).
- [JP-16] S Mandal, R Chaki, “A secure encryption logic for communication in wireless sensor networks”, Int. J. Cryptogr. Inf. Secur 2, 107-116, 2012.
- [JP-17] I Nath, R Chaki, , “BHAPSC: A new black hole attack prevention system in clustered MANET”, International Journal of Advanced Research in Computer Science and Software, [ISSN 2277-6451](#).
- [JP-18] A K Das, R Chaki, “Multiple Event Source Routing (MESR) for Energy Efficient Wireless Sensor Network”, network 39 (15), [doi 10.5120/4894-7401](#).
- [JP-19] D Sinha, U Bhattacharya, R Chaki, “A CRT based encryption methodology for secure communication in MANET”, International Journal of Computer Applications 39 (16), 20-25, [ISSN 0975-8887](#).
- [JP-20] Suprativ Saha, Rituparna Chaki, “Application of Data Mining in Protein Sequence Classification” International Journal of Database Management Systems (IJDMS) Vol.4, No.5, October 2012.

2011

- [JP-21] A K Das, R Chaki, A novel query driven power-balanced routing protocol for WSN, *Int J Wireless Mobile Network* 4, 237-248.

2010

- [JP-22] Debdutta Barman Roy, Rituparna Chaki, Nabendu Chaki; "BHIDS: A New Cluster Based Algorithm for Black Hole IDS"; *Wiley Journal of Security and Communication Networks; SI on Security in Mobile Wireless Networks*, Vol. 3(2-3); Pages 278 - 288, Sept. 2009. [ISSN: 1939-0122](#).

2009

- [JP-23] Debdutta Barman Roy, Rituparna Chaki, Nabendu Chaki; "A New Cluster-based Wormhole Intrusion Detection Algorithm for Mobile Ad-hoc Networks", *International Journal of Network Security & Its Applications (IJNSA)*, Vol. 1(1); pp. 44-52, 2009. [ISSN: 0974-9330](#).

Refereed IEEE/Springer/ACM/Elsevier Conference Papers with ISBN Numbers: 57

2019

- [CP-001] SD Gupta, S Choudhury, R Chaki; "Disaster Management System using Vehicular Ad Hoc Networks", *Advanced Computing and Systems for Security*, pp 93-107.

2018

- [CP-002] M. Poddar, R Chaki, D Pal, "Congestion control for IoT using Channel trust based Approach", *IFIP International Conference on Computer Information Systems and Industrial Management*, pp 392-404.
- [CP-003] P Sarkar, D Sinha, R Chaki; "A solution to nurse assignment problem in health care with variable demand", *Advanced Computing and Systems Security*, pp 03-20.
- [CP-004] T Bhattasali, R Chaki, K Saeed, N Chaki; "Typing signature classification model for user identity verification", *Advanced Computing and Systems for security*, pp 43-67

2017

- [CP-005] Tapalina Bhattasali; Rituparna Chaki; Khalid Saeed; Nabendu Chaki; "Typing Signature Classification Model for User Identity Verification"; **Springer** Proceedings for Doctoral Symposium on Advanced Computation and Security Systems; Kolkata, India, March 2017.
- [CP-006] Paramita Sarkar, Rituparna Chaki, Ditipriya Sinha, "A Heuristic Framework for Priority Based Nurse Scheduling", *Advanced Computing and Systems for Security*, pp 3-18,
- [CP-007] Ammlan Ghosh, Rituparna Chaki, Nabendu Chaki, "Abort-Free STM: A Non-blocking Concurrency Control Approach Using Software Transactional Memory", *Advanced Computing and Systems for Security*, pp 53-71, [*post-symposium book in press*]

2016

- [CP-008] Ammlan Ghosh, Rituparna Chaki, Nabendu Chaki. "Checkpoint Based Multi-Version Concurrency Control Mechanism for Remote Healthcare System", **IEEE** Proceedings of International Conference on Advances in Computing, Communications and Informatics (ICACCI), pp. 382-389, Sep., 2016. [ISBN: 978-1-5090-2029-4](#).
- [CP-009] Ammlan Ghosh, Rituparna Chaki, Nabendu Chaki. "CMS: Checkpoint-based Multi-versioning System for Software Transactional Memory", **Springer** Proceedings of the 4th International Conference on Advanced Computing, Networking, and Informatics (ICACNI-2016), Rourkela, India, 21-24 Sep., 2016.
- [CP-010] Ammlan Ghosh, Nabendu Chaki, Rituparna Chaki, "Abort-free STM: A Non-Blocking

- Concurrency Control Approach using Software Transactional Memory", Advanced Computing and Systems for Security, Vol. 3; **Springer** AISC Series; 2016.
- [CP-011] Soumyabrata Saha, Rituparna Chaki, Nabendu Chaki; "Hierarchical Data Aggregation Based Routing for Wireless Sensor Networks"; **Springer LNCS** Proceedings of the International Conference on Computational Collective Intelligence; vol. 9876, pp. 168-179, Greece, Sep. 2016. **ISBN: 978-3-319-45246-3.**
- [CP-012] Tapalina Bhattasali, Rituparna Chaki, Nabendu Chaki, Khalid Saeed, "Securing Service in Remote Healthcare"; Advanced Computing and Systems for Security, Vol. 1; **Springer** AISC Series; pp. 65-84, 2016. **ISBN: 978-81-322-2650-5.**
- [CP-013] Ammlan Ghosh, Rituparna Chaki; "Implementing Software Transactional Memory using STM Haskell"; Advanced Computing and Systems for Security, Vol. 2; **Springer** AISC Series; pp. 235-248, 2016. **ISBN: 978-81-322-2653-6.**
- [CP-014] A K Das, R Chaki, KN Dey, The Design of Hierarchical Routing Protocol for Wireless Sensor Network, Advanced Computing and Systems for Security, 223-233, **ISBN: 978-81-322-2648-2**
- [CP-015] Puja Mukherjee, Rituparna Chaki, "Towards Generating a Unique Signature for Remote User by Keystrokes Dynamics", IFIP International Conference on Computer Information Systems and Industrial Management, pp 661-671

2015

- [CP-016] Tapalina Bhattasali, Nabendu Chaki, Khalid Saeed, Rituparna Chaki; "U-Stroke Pattern Modeling for End User Identity Verification through Ubiquitous Input Device"; **Springer LNCS** Proceedings of 14th International Conference on Information System and Industrial Management (CISIM), vol. 9339, pp. 219-230, Poland, 2015. **ISBN: 978-3-319-24369-6.**
- [CP-017] M Poddar, R Chaki, D Pal , "A channel trust based approach for congestion control in IoT", 9th International Conference on application of Information and Communication Technologies (AICT), pp 319-324, 2015
- [CP-018] Suparna DasGupta, Rituparna Chaki , "Trust-Based Routing for Vehicular Ad Hoc Network", pp 187-202, Springer India, 2015, ISBN 978-81-322-1984-2

2014

- [CP-019] Tapalina Bhattasali, Khalid Saeed, Nabendu Chaki, Rituparna Chaki; "A survey of security and privacy issues for biometrics based remote authentication in cloud"; Springer LNCS Proceedings of 14th International Conference on Information System and Industrial Management (CISIM), vol. 8838, pp. 112-121, Vietnam, 2014. **ISBN: 978-3-662-45237-0.**
- [CP-020] Ammlan Ghosh, Anubhav Sahin, Anirban Sil Sarma, Rituparna Chaki; "A New Contention Management Technique for Obstruction Free Transactional Memory"; Springer LNCS Proceedings of the 13th International Conference on Information System and Industrial Management (CISIM 2014), November 2014, Ho Chi Minh City, Vietnam, pp 11-22. **ISBN: 978-3-662-45237-0.**
- [CP-021] D Sinha, R Chaki , "Comparative Performance Analysis of AESCRT Using NS2", IEEE International Conference on Information Technology (ICIT), pp 35-40, 2014, **ISBN: 978-1-4799-8133-5.**
- [CP-022] A Ghosh, A Sahin, A Silsarma, R Chaki, , "A New Contention Management Technique for Obstruction Free Transactional Memory", Lecture Notes in Computer Science, LNCS-8838, pp.11-22, 2014, Computer Information Systems and Industrial Management. Springer, Berlin, Heidelberg, DOI: 10.1007/978-3-662-45237-0_3
- [CP-023] D Sinha, R Chaki, "AESCRT: Agent enabled secure CRT based routing topology for MANET", Applications and Innovations in Mobile Computing (AIMoC), pp 172-178, 2014, DOI: 10.1109/AIMOC.2014.6785537.
- [CP-024] D B Roy, R Chaki, "State of the art analysis of network traffic anomaly detection",

Applications and Innovations in Mobile Computing (AIMoC), pp 186-192, 2014, DOI: DOI: 10.1109/AIMOC.2014.6785539.

2013

- [CP-025] Tapalina Bhattasali, Rituparna Chaki, Nabendu Chaki; “Secure and Trusted Cloud of Things”; IEEE Proceedings of the Annual India Conference (INDICON), India, pp. 1-6, December 2013. **ISBN: 978-1-4799-2274-1.**
- [CP-026] Tapalina Bhattasali, Rituparna Chaki, Nabendu Chaki; “Study of Security Issues in Pervasive Environment of Next Generation Internet of Things”; Springer LNCS Proceedings of the International Conference on Computer Information System and Industrial Management (CISIM), Cracow, Poland, vol. 8104, pp. 206-217, Sep. 2013. **ISBN: 978-3-6424-0925-7.**
- [CP-027] D B Roy, R Chaki, “MCBHIDS: Modified layered cluster based algorithm for black hole IDS”, Annual IEEE India Conference (INDICON), pp 1-6, 2013, DOI: 10.1109/INDCON.2013.6726110
- [CP-028] A K Das, R Chaki, A Biswas, , “Power Aware Cluster Based Routing (PACBR) Protocol for Wireless Sensor Network”, Computer Information Systems and Industrial Management, 289-300, 8104. 289-300. 10.1007/978-3-642-40925-7_27.
- [CP-029] Suparna DasGupta, Rituparna Chaki, Sankhayan Choudhury, “TruVAL: trusted vehicle authentication logic for VANET”, Advances in Computing, Communication, and Control: Third International Conference, ICAC3 2013, **978-3-642-36321-4_29.**
- [CP-030] S Saha, R Chaki, “ A brief review of data mining application involving protein sequence classification”, Advances in Computing and Information Technology, pp 469-477

2012

- [CP-031] D Sinha, R Chaki, U Bhattacharya, “A secure routing scheme in MANET with CRT based secret sharing”, IEEE 15th International Conference on Computer and Information Technology (ICCIT), pp 225-229 2012
- [CP-032] T Bhattasali, R Chaki, “BEAMS: Battery Exhaustion Anomaly Monitoring System model in SENSORNET”, Sensing Technology (ICST), 2012 Sixth International Conference on, pp 709-713, DOI: 10.1109/ICSensT.2012.6461770
- [CP-033] P Dutta, R Chaki, “A survey of data mining applications in water quality management”, Proceedings of the CUBE International Information Technology Conference, pp 470-475, doi>10.1145/2381716.2381805
- [CP-034] A Sharma, A Roy, S Ghosal, R Chaki, U Bhattacharya, “Load balancing in cellular network: A review”, Third Computing Communication & Networking Technologies (ICCCNT), 2012, DOI: 10.1109/ICCCNT.2012.6395927
- [CP-035] Pratima Sarkar, Rituparna Chaki, “A Cryptographic Approach towards Black Hole Attack Detection”, Advances in Computing and Information Technology. Advances in Intelligent Systems and Computing, vol 176. Springer, Berlin, Heidelberg, pp 273-278, **ISBN 978-3-642-31512-1**
- [CP-036] Saha S., Chaki R. (2012) Weighted Energy Efficient Cluster Based Routing for Wireless Sensor Networks, Computer Information Systems and Industrial Management. CISIM 2012. Lecture Notes in Computer Science, vol 7, **ISBN 978-3-642-33259-3**
- [CP-037] Das A.K., Chaki R., “MERCC: Multiple Events Routing with Congestion Control for WSN”, Advances in Intelligent Systems and Computing, vol 176. Springer, Berlin, Heidelberg, pp 691-698, **ISBN: 978-3-642-31512-1**
- [CP-038] Mandal S., Chaki R. (2012) A Novel Power Balanced Encryption Scheme for Secure Information Exchange in Wireless Sensor Networks. In: Meghanathan N., Nagamalai D., Chaki N. (eds) Advances in Computing and Information Technology. Advances in Intelligent Systems and Computing, vol 176. Springer, Berlin, Heidelberg, pp 263-271, **ISBN 978-3-642-31512-1**

- [CP-039] P Boyal , R Chaki, “New Database Architecture for Smart Query Handler of Spatial Database”, Procedia Technology, Vol 4, pp 766-771, 2012 DOI: doi.org/10.1016/j.protcy.2012.05.125
- [CP-040] Saha S., Chaki R. (2012) Hierarchical Cluster Based Query-Driven Routing Protocol for Wireless Sensor Networks. Proceedings of the International Conference on Information Systems Design and Intelligent Applications 2012 (INDIA 2012) , Advances in Intelligent and Soft Computing, vol 132. Springer, Berlin, Heidelberg, pp 657-667, ISBN 978-3-642-27442-8

2011

- [CP-041] A Sharma , R Chaki, U Bhattacharya, “Applications of wireless sensor network in Intelligent Traffic System: A review”, Electronics Computer Technology (ICECT), 2011 3rd International Conference on DOI 10.1109/ICECTECH.2011.5941955
- [CP-042] D B Roy, R Chaki, “ MABHIDS: A new mobile agent based black hole intrusion detection system”, Computer Information Systems–Analysis and Technologies, pp 85-94, ISBN 978-3-642-27244-8
- [CP-043] S Sen, R Chaki, “ Handling Write Lock Assignment in Cloud Computing Environment”, Computer Information Systems – Analysis and Technologies. Communications in Computer and Information Science, vol 245. Springer, Berlin, Heidelberg pp 221-230, ISBN 978-3-642-27244-8.
- [CP-044] D Sinha, U Bhattacharya, R Chaki, “ A Novel Distributed Clustered Approach towards Building an Agent Based Routing Topology”, Trends in Network and Communications, pp 213-220.
- [CP-045] Sinha D., Chaki R. (2011) SRCHS – A Stable Reliable Cluster Head Selection Protocol. In: Özcan A., Zizka J., Nagamalai D. (eds) Recent Trends in Wireless and Mobile Networks. Communications in Computer and Information Science, vol 162. Springer, Berlin, Heidelberg, pp 35-44, ISBN 978-3-642-21936-8.
- [CP-046] R Chaki, Intrusion detection: Ad-hoc networks to ambient intelligence framework, IEEE Computer Information Systems and Industrial Management Applications (CISIM), International Conference on, 2010, ISBN 10.1109/CISIM.2010.5643700
- [CP-047] Nath I., Chaki R., Chaki N. (2010) WACA: A New Weighted Adaptive Clustering Algorithm for MANET, Recent Trends in Networks and Communications. Communications in Computer and Information Science, vol 90. Springer, Berlin, Heidelberg, pp 270-283, 2010, 978-3-642-14492-9

2009

- [CP-048] S Dasgupta, R Chaki, AMOBIROUTE: An Advanced Mobility Based Ad Hoc Routing Protocol for Mobile Ad Hoc Networks, First International Conference on Networks and Communications, 2009. NETCOM '09 .
- [CP-049] Soumya Brata Saha, Suparna Das Gupta, Rituparna Chaki, “MOADRP: Mobile Ad-hoc Network Routing Protocol”, 2009 Fifth International Conference on Wireless Communication and Sensor Networks (WCSN),
- [CP-050] D Sinha, R Chaki, “MALBACO - a new Multi-Agent Load Balanced Ant Colony Optimization algorithm for MANETs“, World Congress on Nature & Biologically Inspired Computing, 2009. NaBIC 2009.
- [CP-051] Soma Saha, Rituparna Chaki, Nabendu Chaki; "A New Reactive Secure Routing Protocol for Mobile Ad-Hoc Networks", IEEE Proceedings of the 7th International Conference on Computer Information Systems and Industrial Management Applications (CISIM), Ostrava, The Czech Republic, June 26 - June 28, 2008; ISBN: 978-0-7695-3184-7.
- [CP-052] Pali Sil, Rituparna Chaki, Nabendu Chaki; "HIDS: Honesty-rate based collaborative Intrusion Detection System for Mobile Ad-Hoc Networks", IEEE Proceedings of the 7th International Conference on Computer Information Systems and Industrial Management Applications (CISIM), Ostrava, The Czech Republic, June 26 - June 28, 2008; ISBN: 978-0-

7695-3184-7.

- [CP-053] R Chaki, D Sinha, “LCRACO-A new load and congestion controlled routing based on ant colony optimization”, Computer and Information Technology, 2008. ICCIT 2008.

2007 and earlier

- [CP-054] Rituparna Chaki; Nabendu Chaki; “IDSX: A Cluster Based Collaborative Intrusion Detection Algorithm for Mobile Ad-Hoc Network”; IEEE proceedings of the 6th International Conference on Computer Information Systems and Industrial Management Applications (CISIM '07); pp. 179 – 184, June 2007. **ISBN: 0-7695-2894-5.**
- [CP-055] Nabendu Chaki; Rituparna Chaki; “ORRP: Optimal Reactive Routing Protocol for Mobile Ad-Hoc Networks”; IEEE proceedings of the 6th International Conference on Computer Information Systems and Industrial Management Applications (CISIM '07); pp. 185 – 190, June 2007. **ISBN: 0-7695-2894-5.**
- [CP-056] R Chaki, N Chaki, U Bhattacharya, “Performance evaluation of the Scale-net: an optimal, irregular logical topology for all-optical networks”, AsiaCSN '07 Proceedings of the Fourth IASTED Asian Conference on Communication Systems and Networks, **ISBN: 978-0-88986-658-4**

Other Refereed Publications with ISBN Number: 1

- [CP-057] Tapalina Bhattasali, Piotr Panasiuk, Khalid Saeed, Nabendu Chaki, Rituparna Chaki; “Modular logic of authentication using dynamic keystroke pattern analysis”; Proceedings of the International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2015), March 2016. **ISBN: 978-0-7354-1392-4.**