

List of publications

Books

1. K. Sinha, **S. C. Ghosh** and B. P. Sinha, “Wireless Networks and Mobile Computing”, *CRC Press*, 520 pages, published on October 15, 2015.

In Journals

1. L. Sau, P. Mukherjee, **S. C. Ghosh**, “DRAMS: Double-RIS assisted multihop routing scheme for device-to-device communication”, *Computer Communications*, Vol. 220, pp 52-63, April 2024.
2. S. Ghosal and **S. C. Ghosh**, “Expected polynomial-time randomized algorithm for graph coloring problem”, *Discrete Applied Mathematics (Elsevier)*, Accepted, August 2023.
3. D. Singh, A. Chhappadhyay and **S. C. Ghosh**, “To Continue Transmission or to Explore Relays: Millimeter Wave D2D Communication in Presence of Dynamic Obstacles”, *IEEE Transactions on Mobile Computing (IEEE)*, Vol. 22, No. 8, pp. 4961–4972, August 2023.
4. S. Koley and **S. C. Ghosh**, “On the span of l distance coloring of infinite hexagonal grid”, *International Journal of Foundations of Computer Science (World Scientific)*, Accepted, August 2023.
5. R. N. Dutta and **S. C. Ghosh**, “Mobility aware resource allocation for millimeter-wave D2D communications in presence of obstacles”, *Computer Communications (Elsevier)*, Vol. 200, pp. 54-65, February 2023.
6. R. Shukla and **S. C. Ghosh**, “Distributed relay switching in the presence of dynamic obstacles in millimeter wave D2D communication”, *Computer Communication (Elsevier)*, Vol. 194, pp. 124-134, October 2022.
7. B. P. Tewari and **S. C. Ghosh**, “Wi-Fi assisted 5G D2D communications in unlicensed spectrum”, *Journal of Ambient Intelligence and Humanized Computing (Springer)*, Vol. 13, No. 4, pp. 1715-1734, April 2022.
8. S. Ghosh and **S. C. Ghosh**, “A Blackout Aware Handover Mechanism for Ultra Dense Networks”, *Journal of Network and Systems Management*, Vol. 30, No. 3, Article 37, July 2022.
9. S. Ghosal and **S. C. Ghosh**, “A randomized algorithm for joint power and channel allocation in 5G D2D communication”, *Computer Communication (Elsevier)*, Vol. 179, pp. 22-34, November 2021.

10. S. Mukherjee and **S. C. Ghosh**, “Scalable and fair resource sharing among 5G D2D users and legacy 4G users: A game theoretic approach”, *Ad hoc Networks (Elsevier)*, Vol. 115, pp. 102436-102442, April 2021.
11. S. Sarkar and **S. C. Ghosh**, “Relay selection in millimeter wave D2D communications through obstacle learning”, *Ad hoc Networks (Elsevier)*, Vol. 114, pp. 102419-102430, April 2021.
12. S. Ghosh and **S. C. Ghosh**, “Analyzing handover performances of mobility management protocols in ultra dense networks”, *Journal of Network and Systems Management (Springer)*, Vol. 28, No. 4, pp. 1427-1452, October 2020.
13. S. Ghosh and **S. C. Ghosh**, “Performance analysis of dual connectivity in control/user-plane split heterogeneous networks”, *Computer Communications (Elsevier)*, Vol. 149, pp. 370-381, January 2020.
14. A. Das, **S. C. Ghosh**, N. Das and A. D. Barman, “Cooperative spectrum mobility in heterogeneous opportunistic networks for IoT”, *Wireless Personal Communications (Springer)*, Vol. 110, No. 4, pp. 2065-2085, February 2020.
15. B. P. Tewari and **S. C. Ghosh**, “Efficient AP placement through power control and partially overlapping channel assignment”, *Wireless Personal Communications (Springer)*, Vol. 110, No. 1, pp. 223-244, January 2020.
16. G. K. Audhya, **S. C. Ghosh** and B. P. Sinha, “Lower bound on bandwidth and channel assignment algorithm for multimedia communication in cellular networks”, *IEEE Transactions on Mobile Computing (IEEE)*, Vol. 18, No. 8, pp. 1816-1830, August 2019.
17. D. Singh and **S. C. Ghosh**, “Mobility aware relay selection in 5G D2D communication using stochastic model”, *IEEE Transactions on Vehicular Technology (IEEE)*, Vol. 68, No. 3, pp. 2837-2849, March 2019.
18. B. P. Tewari and **S. C. Ghosh**, “Interference aware frequency assignment and association control for uplink and downlink traffic in WLAN”, *International Journal of Communication Networks and Distributed Systems (Inderscience)*, Vol. 23, No. 2, pp. 143-171, May 2019.
19. N. K. Panigrahy and **S. C. Ghosh**, “Analyzing the effect of soft handover on handover evaluation metrics under load condition”, *IEEE Transactions on Vehicular Technology (IEEE)*, Vol. 67, No. 4, pp. 3612-3624, April 2018.
20. A. Bhattacharya, **S. C. Ghosh**, K. Sinha, B. P. Sinha, “Secure multipath routing for multimedia communication in cognitive radio networks”, *International Journal of Communication Networks and Distributed Systems (Inderscience)*, Vol. 21, No. 1, pp. 26-55, November 2018.

21. P. Chatterjee, **S. C. Ghosh** and N. Das, "Load balanced coverage with graded node deployment in wireless sensor networks", *IEEE Transactions on Multi-Scale Computing Systems (IEEE)*, Vol. 3, No. 2, pp. 100-112, April-June 2017.
22. S. Das, **S. C. Ghosh**, S. Nandi and S. Sen, "A lower bound technique for radio k -coloring", *Discrete Mathematics (Elsevier)*, Vol. 340, No. 5, pp. 855-861, May 2017.
23. S. Das, **S. C. Ghosh** and S. Nandi, "Optimal $L(3,2,1)$ -labeling of triangular lattice", *Discrete Applied Mathematics (Elsevier)*, Vol. 228, pp. 32-40, September 2017.
24. B. Nandi, **S. C. Ghosh**, A. Banerjee and N. Banerjee, "Customer on-boarding strategies for cloud computing services with dynamic service level agreements", *Service Oriented Computing and Applications (Springer)*, Vol. 11, No. 1, pp. 47-63, March 2017.
25. B. P. Tewari and **S. C. Ghosh**, "Joint frequency assignment and association control to maximize the aggregate throughput in IEEE 802.11 WLAN", *Wireless Personal Communications (Springer)*, Vol. 94, No. 3, pp. 1193-1221, June 2017.
26. D. Bhaumick and **S. C. Ghosh**, "Efficient multicast association to improve the throughput in IEEE 802.11 WLAN", *ACM/Springer Mobile Networks and Applications (ACM/Springer)*, Vol. 21, No. 3, pp. 436-452, June 2016.
27. A. Sandhupatla and **S. C. Ghosh**, "Gracefulness of vertex duplicated complete bipartite graph for static and incremental frequency allocation", *Electronic Notes in Discrete Mathematics (Elsevier)*, Vol. 48, pp. 89-93, July 2015.
28. S. Nandi, S. Sen, **S. C. Ghosh** and S. Das, "On $L(k, k - 1, \dots, 1)$ labeling of triangular lattice", *Electronic Notes in Discrete Mathematics (Elsevier)*, Vol. 48, pp. 281-288, July 2015.
29. G. K. Audhya, K. Sinha, K. Mandal, R. Dattagupta, **S. C. Ghosh** and B. P. Sinha, "A new approach to fast near-optimal channel assignment in cellular mobile networks", *IEEE Transactions on Mobile Computing (IEEE)*, Vol. 12, No. 9, pp. 1814-1827, September 2013.
30. **S. C. Ghosh**, R. M. Whitaker, S. M. Allen and S. Hurley, "Optimising CDMA cell planning with soft handover", *Wireless Personal Communications (Springer)*, Vol. 68, Issue 2, pp. 321-347, January 2013.
31. **S. C. Ghosh**, R. M. Whitaker, S. M. Allen and S. Hurley, "Dynamic data resolution to improve the tractability of UMTS network planning", *Annals of Operations Research (Springer)*, Vol. 201, Issue 1, pp. 197-227, December 2012.
32. G. K. Audhya, K. Sinha, **S. C. Ghosh** and B. P. Sinha, "A survey on the channel assignment problem in wireless networks," *Wireless Communications and Mobile Computing (Wiley)*, Vol. 11, Issue 5, pp. 583-609, May 2011.

33. M. N. Smadi, **S. C. Ghosh**, A. A. Farid, T. D. Todd and S. Hranilovic, “Free-space optical gateway placement in hybrid wireless mesh networks”, *IEEE/OSA Journal of Lightwave Technology (IEEE)*, Vol. 27, Issue 14, pp. 2688-2697, July 2009.
34. V. Rajakumar, M. N. Smadi, **S. C. Ghosh**, T. D. Todd and S. Hranilovic, “Interference management in WLAN mesh networks using free-space optical links”, *IEEE/OSA Journal of Lightwave Technology (IEEE)*, Vol. 26, Issue 13, pp. 1735-1743, July 2008.
35. G. K. Das, **S. C. Ghosh** and S. C. Nandy, “Improved algorithm for minimum cost range assignment problem for linear radio networks”, *Int. J. of Foundations of Computer Science (World Scientific)*, Vol. 18, No. 3, pp. 619-635, June 2007.
36. **S. C. Ghosh**, B. P. Sinha and N. Das, “Coalesced CAP: An improved technique for frequency assignment in cellular networks,” *IEEE Transactions on Vehicular Technology (IEEE)*, Vol. 55, No. 2, pp. 640-653, March 2006.
37. **S. C. Ghosh**, B. P. Sinha and N. Das, “Channel assignment using genetic algorithm based on geometric symmetry,” *IEEE Transactions on Vehicular Technology (IEEE)*, Vol. 52, No. 4, pp. 860-875, July 2003.
38. **S. C. Ghosh**, B. P. Sinha and N. Das, “A new approach to efficient channel assignment for hexagonal cellular networks,” *Int. J. of Foundations of Computer Science (World Scientific)*, Vol. 14, No. 3, pp. 439-463, June 2003.

In Refereed Conference Proceedings

1. S. Sathish, S. K. Ghosh and **S. C. Ghosh**, “Analytical framework to compare handover mechanisms for fog-enabled IoT networks”, *Proc. of the IEEE Future Networks World Forum*, Baltimore, USA, November 13-15, 2023 (IEEE FNWF 2023).
2. R. N. Dutta and **S. C. Ghosh**, “Energy efficient resource allocation for D2D communications using reinforcement learning”, *Proc. of the IEEE 48th Conference on Local Computer Networks*, Daytona Beach, FL, USA, October 2-5, 2023 (IEEE LCN 2023).
3. R. N. Dutta and **S. C. Ghosh**, “Non-optimal is Good! Resource Allocation in Presence of Dynamic Obstacles in D2D Networks”, *Proc. of the IEEE 48th Conference on Local Computer Networks*, Daytona Beach, FL, USA, October 2-5, 2023 (IEEE LCN 2023).
4. R. N. Dutta, S. Sarkar and **S. C. Ghosh**, “Joint base station and reflector placement in an urban mmWave network”, *Proc. of the 3rd International Mediterranean Conference on Communications and Networking*, Dubrovnik, Croatia, September 4-7 2023 (IEEE MeditCom 2023).
5. S. Sarkar, R. N. Dutta and **S. C. Ghosh**, “LazyUAV: A minimal displacement coverage strategy for multi-UAV mmWave networks”, *Proc. of the 3rd International Mediterranean*

Conference on Communications and Networking, Dubrovnik, Croatia, September 4–7 2023 (IEEE MeditCom 2023).

6. D. Singh and **S. C. Ghosh**, “A Probabilistic Analysis of the Delay in RIS Assisted SISO D2D Communication using Chernoff’s Bounds”, *Proc. of the 3rd International Conference on Computer and Communication Engineering*, Stockholm, Sweden, March 10-12, 2023 (CCCE 2023).
7. L. Sau and **S. C. Ghosh**, “A geometry-based strategic placement of RISs in millimeter wave device to device communication”, *Proc. of the 3rd International Conference on Computer and Communication Engineering*, Stockholm, Sweden, March 10-12, 2023 (CCCE 2023).
8. R. N. Dutta and **S. C. Ghosh**, “Obstacle Aware Link Selection for Stable Multicast D2D Communications”, *Proc. of the 3rd International Conference on Computer and Communication Engineering*, Stockholm, Sweden, March 10-12, 2023 (CCCE 2023).
9. S. Sarkar and **S. C. Ghosh**, “Mobility Aware Path Selection for Millimeterwave 5G Networks in the Presence of Obstacles”, *Proc. of the 3rd International Conference on Computer and Communication Engineering*, Stockholm, Sweden, March 10-12, 2023 (CCCE 2023).
10. S. Sarkar, S. Ghosal, S. Bandyopadhyay and **S. C. Ghosh**, “A stable link allocation algorithm for 5G millimeterwave networks”, *Proc. of the 15th International Conference on Communication Systems & Networks*, Bengaluru, India, January 3-8, 2023 (COMSNETS 2023).
11. S. Koley and **S. C. Ghosh**, “Optimal $L(1,2)$ -edge labeling of infinite octagonal grid”, *Proc. of the 9th International Conference on Mathematics and Computing*, Goa, India, January 6-8, 2023 (ICMC 2023).
12. S. Deb, S. K. Ghosh and **S. C. Ghosh**, “MAB based Network Selection mechanism for URLLC users in RIS assisted network”, *Proc. of the 21th IEEE International Symposium on Network Computing and Applications*, Online, December 14-16, 2022 (IEEE NCA 2022).
13. H. Ganesan and **S. C. Ghosh**, “Evidential obstacle learning in millimeter wave D2D communication using spatial correlation”, *Proc. of the 14th International Conference on Communication Systems & Networks*, Bengaluru, India, January 3-9, 2022 (COMSNETS 2022).
14. S. Deb and **S. C. Ghosh**, “An RIS deployment strategy to overcome static obstacles in millimeter wave D2D communication”, *Proc. of the 20th IEEE International Symposium on Network Computing and Applications*, Online, November 23-26, 2021 (IEEE NCA 2021).

15. S. Deb, S. Ghosh and **S. C. Ghosh**, “A Multi-Arm-Bandit based resource block allocation in RIS assisted wireless network”, *Proc. of the 20th IEEE International Symposium on Network Computing and Applications*, Online, November 23-26, 2021 (IEEE NCA 2021).
16. S. Ghosh and **S. C. Ghosh**, “An energy efficient component carrier selection mechanism for LTE-NR dual connectivity”, *Proc. of the 20th IEEE International Symposium on Network Computing and Applications*, Online, November 23-26, 2021 (IEEE NCA 2021).
17. R. N. Dutta and **S. C. Ghosh**, “Joint relay selection and frequency allocation for D2D communications”, *Proc. of the 17th EAI International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness*, Melbourne, Australia, November 29-30, 2021 (QSHINE 2021).
18. S. Ghosh, A. Das, **S. C. Ghosh** and N. Das, “Anti-eavesdropping proportional fairness access control for 5G networks”, *Proc. of the 17th EAI International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness*, Melbourne, Australia, November 29-30, 2021 (QSHINE 2021).
19. S. Bandopadhyay, **S. C. Ghosh** and S. Koley, “L(2, 1)-edge labeling of infinite triangular grid”, *Proc. of the 22nd Italian Conference on Theoretical Computer Science*, Bologna, Italy, September 13-15, 2021 (ICTCS 2021).
20. **S. C. Ghosh** and S. Koley, “Proving a conjecture on 8-distance coloring of the infinite hexagonal grid”, *Proc. of the 22nd Italian Conference on Theoretical Computer Science*, Bologna, Italy, September 13-15, 2021 (ICTCS 2021).
21. D. Singh, A. Chhattopadhyay and **S. C. Ghosh**, “Local Relay Selection in Presence of Dynamic Obstacles in Millimeter Wave D2D Communication”, *Proc. of the IEEE International Conference on Communications*, Montreal, Canada, June 14-23, 2021 (IEEE ICC 2021).
22. R. N. Dutta and **S. C. Ghosh**, “Resource allocation for millimeter wave D2D communications in presence of static obstacles”, *Proc. of the 35th International Conference on Advanced Information Networking and Applications*, Toronto, Canada, May 12-14, 2021 (AINA 2021).
23. S. Koley and **S. C. Ghosh**, “Deriving bounds on $L(k_1, k_2)$ labelling of triangular lattice by exploring underlined graph structures”, *Proc. of the 7th International Conference on Mathematics and Computing*, Shibpur, India, March 02-05, 2021 (ICMC 2021).
24. B. P. Tewari and **S. C. Ghosh**, “Inter-AP communication protocol based frequency assignment in IEEE 802.11 WLAN”, *Proc. of the 13th International Conference on Communication Systems & Networks*, Bengaluru, India, January 5-9, 2021 (COMSNETS 2021).

25. S. Ghosal and **S. C. Ghosh**, “An incremental search heuristic for coloring vertices of a graph”, *Proc. of the 18th Cologne-Twente Workshop on Graphs and Combinatorial Optimization*, September 14-16, 2020 (CTW 2020).
26. S. Bandopadhyay, **S. C. Ghosh** and S. Koley, “Improved bounds on the span of $L(1,2)$ -edge labeling of some infinite regular grids”, *Proc. of the 18th Cologne-Twente Workshop on Graphs and Combinatorial Optimization*, September 14-16, 2020 (CTW 2020).
27. D. Singh, A. Chattopadhyay and **S. C. Ghosh**, “Distributed relay selection in presence of dynamic obstacles in millimeter wave D2D communication”, *Proc. of the IEEE International Conference on Communications*, Dublin, Ireland, June 7-11, 2020 (IEEE ICC 2020).
28. S. Mukherjee and **S. C. Ghosh** “Scalable and fair resource sharing among 5G D2D users and legacy 4G users: A game theoretic approach”, *Proc. of the 12th International Conference on Communication Systems & Networks*, Bengaluru, India, January 7-11, 2020 (COMSNETS 2020).
29. S. Sarkar and **S. C. Ghosh** “Relay selection in millimeter wave D2D communications through obstacle learning”, *Proc. of the 12th International Conference on Communication Systems & Networks*, Bengaluru, India, January 7-11, 2020 (COMSNETS 2020).
30. S. Ghosal and **S. C. Ghosh** “A randomized algorithm for joint power and channel allocation in 5G D2D communication”, *Proc. of the 18th IEEE International Symposium on Network Computing and Applications*, Cambridge, MA, USA, September 26-28, 2019 (IEEE NCA 2019).
31. S. Ghosh and **S. C. Ghosh**, “Q-learning based network selection mechanism for CRNs with secrecy provisioning”, *Proc. of the 18th IEEE International Symposium on Network Computing and Applications*, Cambridge, MA, USA, September 26-28, 2019 (IEEE NCA 2019).
32. D. Singh and **S. C. Ghosh**, “Network-assisted D2D relay selection under the presence of dynamic obstacles”, *Proc. of the 44th IEEE Conference on Local Computer Networks*, Osnabrück, Germany, October 14-17, 2019 (IEEE LCN 2019).
33. A. Das, S. Karar, N. Das and **S. C. Ghosh**, “Pre-emptive spectrum access for cognitive radio”, *Proc. of the 4th International Conference on Advanced Computing and Intelligent Engineering*, Bhubaneswar, India, December 21-23, 2019 (ICACIE 2019).
34. S. Ghosh and **S. C. Ghosh**, “Analyzing the Performance of Dual Connectivity in Control/User-plane Split Heterogeneous networks”, *Proc. of the 15th Wireless On-demand Network systems and Services Conference*, Wengen, Switzerland, pp. 64-71, January 22-24, 2019 (IEEE/IFIP WONS 2019).

35. S. Ghosal and **S. C. Ghosh**, “A Decentralize Algorithm for Perturbation Minimization in 5G D2D Communication”, *Proc. of the 15th Wireless On-demand Network systems and Services Conference*, Wengen, Switzerland, pp. 72-78, January 22-24, 2019 (IEEE/IFIP WONS 2019).
36. D. Bhaumick and **S. C. Ghosh**, “A pseudo-dynamic scheme for mixed unicast and multi-cast traffic scheduling in IEEE 802.11 WLAN”, *Proc. of the 11th International Conference on Communication Systems & Networks*, Bengaluru, India, pp. 30-37, January 7-11, 2019 (COMSNETS 2019).
37. D. Bhaumick and **S. C. Ghosh**, “Throughput optimization for multirate multicasting through association control in IEEE 802.11 WLAN”, *Proc. of the 14th International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness*, Ho Chi Minh City, Vietnam, pp. 27-47, December 3-4, 2018 (QSHINE 2018).
38. A. Das, **S. C. Ghosh**, N. Das and A. Das Barman, “Q-learning based co-operative spectrum mobility in cognitive radio networks”, *Proc. of the 42nd IEEE Conference on Local Computer Networks*, Singapore, pp. 502-505, October 9-12, 2017 (IEEE LCN 2017).
39. S. Ghosh and **S. C. Ghosh**, “A predictive handoff mechanism for 5G ultra dense networks”, *Proc. of the 16th IEEE International Symposium on Network Computing and Applications*, Cambridge, MA, USA, pp. 473-477, October 30, 2017 - November 1, 2017 (IEEE NCA 2017).
40. D. Singh and **S. C. Ghosh**, “A distributed algorithm for D2D communication in 5G using stochastic model”, *Proc. of the 16th IEEE International Symposium on Network Computing and Applications*, Cambridge, MA, USA, pp. 459-466, October 30, 2017 - November 1, 2017 (IEEE NCA 2017).
41. B. P. Tewari and **S. C. Ghosh**, “Combined power control and partially overlapping channel assignment for interference mitigation in dense WLAN”, *Proc. of the 31st IEEE International Conference on Advanced Information Networking and Applications*, Taipei, Taiwan, pp. 646-653, March 27-29, 2017 (IEEE AINA 2017).
42. S. Ghosh and **S. C. Ghosh**, “An analytical framework for throughput analysis of real time applications in all-IP networks”, *Proc. of the 31st IEEE International Conference on Advanced Information Networking and Applications*, Taipei, Taiwan, pp. 508-515, March 27-29, 2017 (IEEE AINA 2017).
43. P. Pandey and **S. C. Ghosh**, “Improving throughput and user fairness through priority scheduling in WLAN”, *Proc. of the 31st International Conference on Information Networking*, Da Nang, Vietnam, pp. 700-705, January 11-13, 2017 (ICOIN 2017).

44. S. Ghosh and **S. C. Ghosh**, “A goodness based vertical handoff algorithm for heterogeneous networks”, *Proc. of the 14th International Conference on Wired/Wireless Internet Communications*, Thessaloniki, Greece, pp. 254-267, May 25-27, 2016 (IFIP WWIC 2016).
45. S. Mukherjee and **S. C. Ghosh**, “Throughput improvement using partially overlapping channels in WLAN with heterogeneous clients”, *Proc. of the 14th International Conference on Wired/Wireless Internet Communications*, Thessaloniki, Greece, pp. 335-347, May 25-27, 2016 (IFIP WWIC 2016).
46. N. K. Panigrahy and **S. C. Ghosh**, “Analyzing the effect of soft handover on WLAN usage efficiency under load condition”, *Proc. of the 14th IEEE International Symposium on Network Computing and Applications*, Cambridge, MA, USA, pp. 192-199, September 28-30, 2015 (IEEE NCA 2015).
47. S. Ghosal and **S. C. Ghosh**, “Channel assignment in mobile networks based on geometric prediction and random coloring”, *Proc. of the 40th IEEE Conference on Local Computer Networks*, Florida, USA, pp. 237-240, October 26-29, 2015 (IEEE LCN 2015).
48. A. Das, **S. C. Ghosh**, N. Das and A. Das Barman, “Cooperative spectrum mobility in heterogeneous opportunistic networks using cognitive radio”, *Proc. of the 40th IEEE Conference on Local Computer Networks*, Florida, USA, pp. 402-405, October 26-29, 2015 (IEEE LCN 2015).
49. B. P. Tewari and **S. C. Ghosh**, “Efficient Bonded Channel Assignment in IEEE 802.11 WLAN with Heterogeneous Clients”, *Proc. of the 13th International Conference on Advances in Mobile Computing and Multimedia*, Brussels, Belgium, pp. 203-210, December 11-13, 2015 (MoMM 2015).
50. R. Singh, S. Mukherjee, **S. C. Ghosh**, “Improving user coverage through resource aware handoff management in heterogeneous networks”, *Proc. of the 13th International Conference on Advances in Mobile Computing and Multimedia*, Brussels, Belgium, pp. 179-188, December 11-13, 2015 (MoMM 2015).
51. S. Nandi, N. Panigrahy, M. Agrawal, **S. C. Ghosh** and S. Das, “Efficient channel assignment for cellular networks modeled as honeycomb grid”, *Proc. of the 15th Italian Conference on Theoretical Computer Science*, Perugia, Italy, pp. 183-195, September 17-19, 2014 (ICTCS 2014).
52. B. P. Tewari and **S. C. Ghosh** “Interference avoidance through frequency assignment and association control in IEEE 802.11 WLAN”, *Proc. of the 13th IEEE International Symposium on Network Computing and Applications*, Cambridge, MA, USA, pp. 91-95, August 21-23, 2014 (IEEE NCA 2014).
53. S. Ghosal and **S. C. Ghosh** “A probabilistic greedy algorithm with forced assignment and compression for fast frequency assignment in cellular network”, *Proc. of the 13th IEEE*

International Symposium on Network Computing and Applications, Cambridge, MA, USA, pp. 189-196, August 21-23, 2014 (IEEE NCA 2014).

54. D. Bhaumick and **S. C. Ghosh**, “Efficient multicast association to improve the throughput in IEEE 802.11 WLAN”, *Proc. of the 10th International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness*, IEEE, Rhodes, Greece, pp. 83-89, August 18-20, 2014 (QSHINE 2014).
55. B. P. Tewari and **S. C. Ghosh**, “A combined frequency assignment and AP scheduling for throughput maximization in IEEE 802.11 WLAN”, *Proc. of the 11th International Conference on Advances in Mobile Computing and Multimedia*, ACM, Vienna, Austria, pp. 123-133, December 2-4, 2013 (MoMM 2013).
56. B. Nandi, H. Paul, A. Banerjee and **S.C. Ghosh**, “Fault Tolerance As a Service”, *Proc. of the 6th IEEE International Conference on Cloud Computing*, Santa Clara Marriott, CA, USA, pp. 446-453, June 27-July 2, 2013 (IEEE CLOUD 2013).
57. B. Nandi, A. Banerjee, **S. C. Ghosh** and N. Banerjee, “Dynamic SLA based elastic cloud service management: A SaaS perspective”, *Proc. of the 13th IFIP/IEEE Symposium on Integrated Network and Service Management*, Ghent, Belgium, pp. 60-67, May 27-31, 2013 (IFIP/IEEE IM 2013).
58. A. Bhattacharya, **S. C. Ghosh** and B. P. Sinha, “Multi-path routing in cognitive radio networks for multimedia communication using sample division multiplexing”, *Proc. of the IEEE Global Communications Conference*, California, USA, pp. 1115-1120, December 3-7, 2012 (IEEE GLOBECOM 2012).
59. B. P. Tewari and **S. C. Ghosh**, “Joint frequency assignment and optimal association of stations to access points in IEEE 802.11 WLAN”, *Proc. of the 15th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems*, Paphos, Cyprus Island, pp. 253-260, October 21-25, 2012 (ACM MSWIM 2012).
60. B. Nandi, A. Banerjee, **S. C. Ghosh** and N. Banerjee, “Stochastic VM multiplexing for datacenter consolidation”, *Proc. of the 9th International Conference on Service Computing*, Honolulu, Hawaii, USA, pp. 114-121, June 24-29, 2012 (IEEE SCC 2012).
61. A. Banerjee, **S. C. Ghosh** and N. Banerjee, “Pack your sack for the cloud”, *Proc. of the 5th India Software Engineering Conference*, IIT Kanpur, Kanpur, India, pp. 157-160, February 22-25, 2012 (ISEC 2012).
62. G. K. Audhya, K. Sinha, K. Mandal, R. Dattagupta, **S. C. Ghosh** and B. P. Sinha, “An efficient algorithm for channel assignment in cellular mobile networks,” *Proc. of the National Workshop on Design and Analysis of Algorithms*, Tezpur University, Tezpur, Assam, India, pp. 1-12, January 22-23, 2010 (NWDAA 2010).

63. **S. C. Ghosh**, R. M. Whitaker, S. M. Allen and S. Hurley, "Service coverage bounds through efficient load approximation in UMTS network planning," *Proc. of the First International Conference on Networks & Communications*, Chennai, India, pp. 202-207, December 27-29, 2009 (NETCOM 2009).
64. L. Hodge, **S. C. Ghosh**, S. Hurley, R. M. Whitaker and S. M. Allen, "Flexible grids for wireless network planning," *Proc. of the 2009 International Conference on Wireless Networks*, Las Vegas, USA, pp. 541-545, July 13-16, 2009 (ICWN 2009).
65. L. Hodge, **S. C. Ghosh**, S. Hurley, R. M. Whitaker and S. M. Allen, "Upper and lower bounds for pilot coverage in UMTS networks," *Proc. of the 2009 International Conference on Wireless Networks*, Las Vegas, USA, pp. 423-429, July 13-16, 2009 (ICWN 2009).
66. L. Hodge, **S. C. Ghosh**, S. Hurley, R. M. Whitaker and S. M. Allen, "Coverage and service bounds for UMTS," *Proc. of the International Conference on Mobile Technology, Applications and Systems*, Taiwan, Article No. 49, pp. 1-4, September 10-12, 2008 (MOBILITY 2008).
67. M. N. Smadi, **S. C. Ghosh**, A. A. Farid, T. D. Todd and S. Hranilovic, "Gateway placement in wireless mesh networks using free space optical links", *Proc. of the 17th International Conference on Computer Communications and Networks*, St. Thomas, Virgin Islands, USA, pp. 369-374, August 3-7, 2008 (ICCCN 2008).
68. A. A. Sayegh, **S. C. Ghosh** and T. D. Todd, "Optimal node placement in hybrid solar powered WLAN mesh networks", *Proc. of the IEEE Wireless Communications and Networking Conference*, Las Vegas, Nevada, USA, pp. 2277-2282, March 31, 2008-April 3, 2008 (IEEE WCNC 2008).
69. V. Rajakumar, M. N. Smadi, **S. C. Ghosh**, T. D. Todd and S. Hranilovic, "WLAN mesh network interference management using FSO link deployment", *Proc. of the 3rd International Conference on Wireless and Mobile Communications*, Guadeloupe, French Caribbean, pp. 77-82, March 4-9, 2007 (ICWMC 2007).
70. **S. C. Ghosh** and B. P. Sinha, "Generalized lower bounds on bandwidth for channel assignment in cellular networks with k-band buffering", *Proc. of the 4th Asian International Mobile Computing Conference*, Kolkata, India, pp. 222-228, January 4-7, 2006 (AMOC 2006).
71. G. K. Das, **S. C. Ghosh** and S. C. Nandy, "Improved algorithm for minimum cost range assignment problem for linear radio networks", *Proc. of the 6th International Workshop on Distributed Computing*, Kolkata, India, LNCS 3326, pp. 412-423, December 27-30, 2004 (IWDC 2004).
72. **S. C. Ghosh**, B. P. Sinha and N. Das, "Coalesced CAP: An efficient approach to frequency assignment in cellular mobile networks", *Proc. of the 12th International Conference*

on Advanced Computing and Communication, Ahmedabad, Gujarat, India, pp. 338-347, December 15-18, 2004 (ADCOM 2004).

73. G. K. Das, **S. C. Ghosh** and S. C. Nandy, "An efficient heuristic algorithm for 2D h-hops range assignment problem," *Proc. of the IEEE Global Telecommunications Conference*, Dallas, Texas, USA, Vol. 2, pp. 1051-1055, November 29-December 3, 2004 (IEEE GLOBECOM 2004).
74. **S. C. Ghosh**, B. P. Sinha and N. Das, "More on lower bounds for channel assignment problem," *Proc. of 6th International Conference on High Performance Computing in Asia Pacific Region*, Bangalore, India, Vol. II, pp. 522-527, December 2002 (HPC-ASIA 2002).
75. **S. C. Ghosh**, B. P. Sinha and N. Das, "Optimal channel assignment in cellular networks with non-homogeneous demands" *Proc. of 56th IEEE Vehicular Technology Conference*, Vancouver, British Columbia, Canada, Vol. 3, pp. 1739-1743, September 2002 (VTC FALL 2002).
76. **S. C. Ghosh**, B. P. Sinha and N. Das, "An efficient channel assignment technique for hexagonal cellular networks," *Proc. of 6th International Symposium on Parallel Architectures, Algorithms, and Networks*, Metro Manila, Philippines, pp. 361-366, May 2002 (I-SPAN 2002).
77. **S. C. Ghosh**, B. P. Sinha and N. Das, "On optimal and near-optimal schemes for channel assignment in cellular networks using genetic algorithm," *Proc. of 8th International Conference on Advanced Computing and Communication*, Cochin, India, pp. 1-8, December 2000 (ADCOM 2000).