

DAFTAR PUSTAKA

- Abkenar, F.S. and Rahbar, A.G. (2017) ‘Study and Analysis of Routing and Spectrum Allocation (RSA) and Routing, Modulation and Spectrum Allocation (RMSA) Algorithms in Elastic Optical Networks (EONs)’, *Optical Switching and Networking*, 23, pp. 5–39. Available at: <https://doi.org/10.1016/j.osn.2016.08.003>.
- Agrawal, A., Bhatia, V. and Prakash, S. (2018) ‘Spectrum Efficient Distance-Adaptive Paths for Fixed and Fixed-Alternate Routing in Elastic Optical Networks’, *Optical Fiber Technology*, 40, pp. 36–45. Available at: <https://doi.org/10.1016/j.yofte.2017.11.001>.
- Aibin, M. and Walkowiak, K. (2015) ‘Adaptive Modulation and Regenerator-Aware Dynamic Routing Algorithm in Elastic Optical Networks’, in *IEEE International Conference on Communications*, pp. 5138–5143. Available at: <https://doi.org/10.1109/ICC.2015.7249139>.
- Amar, D., Le Rouzic, E., Brochier, N., Lepers, C., Rouzic, E. Le, Brochier, N. and Lepers, C. (2016) ‘Class-of-Service-Based Multilayer Architecture for Traffic Restoration in Elastic Optical Networks’, *Journal of Optical Communications and Networking*, 8(7), pp. A34–A44. Available at: <https://doi.org/10.1364/JOCN.8.000A34>.
- Ba, S., Chatterjee, B.C. and Oki, E. (2017) ‘Defragmentation scheme based on exchanging primary and backup paths in 1+1 path protected elastic optical networks’, *IEEE/ACM Transactions on Networking*, 25(3), pp. 1717–1731. Available at: <https://doi.org/10.1109/TNET.2017.2650212>.
- Castro, A., Velasco, L., Comellas, J. and Junyent, G. (2013) ‘Dynamic restoration in multi-layer IP/MPLS-over-flexgrid networks’, in *9th International Conference on the Design of Reliable Communication Networks*, pp. 155–162.
- Chatterjee, B.C. and Oki, E. (2020) ‘Defragmentation based on route partitioning in 1 + 1 protected elastic optical networks’, *Computer Networks*, 177, pp. 1–11. Available at: <https://doi.org/10.1016/j.comnet.2020.107317>.
- Chatterjee, B.C., Ba, S. and Oki, E. (2018) ‘Fragmentation Problems and Management Approaches in Elastic Optical Networks: A Survey’, *IEEE Communications Surveys & Tutorials*, 20(1), pp. 183–210. Available at: <https://doi.org/10.1109/COMST.2017.2769102>.
- Chatterjee, B.C., Sarma, N. and Oki, E. (2015) ‘Routing and Spectrum Allocation in Elastic Optical Networks: A Tutorial’, *IEEE Communications Surveys & Tutorials*, 17(3), pp. 1776–1800. Available at: <https://doi.org/10.1109/COMST.2015.2431731>.



ouloupoulos, K., Tomkos, I. and Varvarigos, E.A. (2011) ‘Elastic Width Allocation in Flexible OFDM-Based Optical Networks’, *Journal of Wave Technology*, 29(9), pp. 1354–1366.

White Paper (2020) *Cisco Annual Internet Report (2018–2023)*. Available at: [/www.cisco.com/c/en/us/solutions/collateral/executive-](https://www.cisco.com/c/en/us/solutions/collateral/executive-)

perspectives/annual-internet-report/white-paper-c11-741490.html (Accessed: 16 May 2023).

- Cugini, F., Paolucci, F., Meloni, G., Berrettini, G., Secondini, M., Fresi, F., Sambo, N., Poti, L. and Castoldi, P. (2013) 'Push-Pull Defragmentation Without Traffic Disruption in Flexible Grid Optical Networks', *Journal of Lightwave Technology*, 31(1), pp. 125–133. Available at: <https://doi.org/10.1109/JLT.2012.2225600>.
- Din, D.-R., Wu, Y.-F., Guo, B.-J., Chen, C. and Wu, P.-J. (2017) 'Spectrum expansion/contraction problem for multipath routing with time-varying traffic on elastic optical networks', in *Proceedings of the Second International Conference on Internet of things, Data and Cloud Computing*. New York, NY, USA: ACM, pp. 1–8. Available at: <https://doi.org/10.1145/3018896.3018946>.
- Din, D.R. (2019) 'Spectrum Expansion/Contraction and Survivable Routing and Spectrum Assignment Problems on EONs with Time-Varying Traffic', *Computer Communications*, 148, pp. 152–164. Available at: <https://doi.org/10.1016/j.comcom.2019.09.017>.
- Din, D.R. (2020) 'Delay-Variation Constrained Spectrum Extraction and Contraction Problem for Multipath Routing on Elastic Optical Networks', *Journal of Information Science and Engineering*, 36(1), pp. 109–125. Available at: [https://doi.org/10.6688/JISE.20200136\(1\).0007](https://doi.org/10.6688/JISE.20200136(1).0007).
- Etezadi, E., Beyranvand, H. and Salehi, J.A. (2022) 'Latency-aware service provisioning in survivable multilayer IP-over-elastic optical networks to support multi-class of service transmission', *Computer Communications*, 183, pp. 161–170. Available at: <https://doi.org/10.1016/j.comcom.2021.12.003>.
- Fernandez-Martínez, S., Baran, B. and Pinto-Roa, D.P. (2019) 'Spectrum Defragmentation Algorithms in Elastic Optical Networks', *Optical Switching and Networking*, 34, pp. 10–22. Available at: <https://doi.org/10.1016/j.osn.2019.04.001>.
- Gandhimathi, E., Swarnalatha, A., Sowmya, B. and Palani, G. (2022) 'Spectrum Resource Optimization in Elastic Optical Networks using Dynamic RMSA', *Optical and Quantum Electronics*, 54(4), pp. 1–16. Available at: <https://doi.org/10.1007/s11082-022-03642-7>.
- Gerstel, O., Filsfils, C., Telkamp, T., Gunkel, M., Horneffer, M., Lopez, V. and Mayoral, A. (2014) 'Multi-Layer Capacity Planning for IP-Optical Networks', *IEEE Communications Magazine*, 52(1), pp. 44–51. Available at: <https://doi.org/10.1109/MCOM.2014.6710063>.
- Ghobadi, M. and Mahajan, R. (2016) 'Optical Layer Failures in a Large Backbone', in *Proceedings of the 2016 Internet Measurement Conference*. New York, NY, USA: Association for Computing Machinery (IMC '16), pp. 461–467. Available at: <https://doi.org/10.1145/2987443.2987483>.
- Sgambelluri, A., Paolucci, F., Cugini, F. and Castoldi, P. (2016) 'Demonstration of dynamic restoration in segment routing multi-layer SDN networks', in *Optical Fiber Communications Conference*, pp. 1–3. Available at: <https://doi.org/10.1364/ofc.2016.th4g.4>.



- Gkamas, V., Christodoulopoulos, K. and Varvarigos, E. (2015) 'A Joint Multi-Layer Planning Algorithm for IP over Flexible Optical Networks', *Journal of Lightwave Technology*, 33(14), pp. 2965–2977. Available at: <https://doi.org/10.1109/JLT.2015.2424920>.
- Govindan, R., Minei, I., Kallahalla, M., Koley, B. and Vahdat, A. (2016) 'Evolve or Die: High-Availability Design Principles Drawn from Google's Network Infrastructure', in *Proceedings of the 2016 ACM SIGCOMM Conference*. Florianopolis, Brazil: ACM, pp. 58–72. Available at: <https://doi.org/10.1145/2934872.2934891>.
- Guo, H., Shen, G. and Bose, S.K. (2016) 'Routing and Spectrum Assignment for Dual Failure Path Protected Elastic Optical Networks', *IEEE Access*, 4, pp. 5143–5160. Available at: <https://doi.org/10.1109/ACCESS.2016.2599511>.
- Hosseini Ghazvini, S.M., Ghaffarpour Rahbar, A. and Alizadeh, B. (2020) 'Load balancing, multipath routing and adaptive modulation with traffic grooming in elastic optical networks', *Computer Networks*, 169, pp. 1–21. Available at: <https://doi.org/10.1016/j.comnet.2019.107081>.
- Idzikowski, F., Chiaraviglio, L., Cianfrani, A., Vizcaíno, J.L., Polverini, M. and Ye, Y. (2016) 'A Survey on Energy-Aware Design and Operation of Core Networks', *IEEE Communications Surveys and Tutorials*, 18(2), pp. 1453–1499. Available at: <https://doi.org/10.1109/COMST.2015.2507789>.
- Iyer, S. (2020) 'Investigation of Cost and Spectrum Utilization in Internet Protocol-over-Elastic Optical Networks', *Journal of Optics*, 49, pp. 279–290. Available at: <https://doi.org/10.1007/s12596-020-00626-2>.
- Jinno, M., Takara, H., Kozicki, B., Tsukishima, Y., Sone, Y. and Matsuoka, S. (2009) 'Spectrum-Efficient and Scalable Elastic Optical Path Network: Architecture, Benefits, and Enabling Technologies', *IEEE Communications Magazine*, 47(11), pp. 66–73. Available at: <https://doi.org/10.1109/MCOM.2009.5307468>.
- Jinno, M., Takara, H., Sone, Y., Yonenaga, K. and Hirano, A. (2012) 'Multiflow Optical Transponder for Efficient Multilayer Optical Networking', *IEEE Communications Magazine*, 50(5), pp. 56–65. Available at: <https://doi.org/10.1109/MCOM.2012.6194383>.
- Kadziolka, B., Skala, M., Wojcik, R., Jurkiewicz, P. and Domzal, J. (2022) 'Employing FAMTAR and AHB to Achieve an Optical Resource-Efficient Multilayer IP-Over-EON SDN Network', *IEEE Access*, 10, pp. 94089–94099. Available at: <https://doi.org/10.1109/ACCESS.2022.3204290>.
- Khan, A.N. (2019) 'Online routing, distance-adaptive modulation, and spectrum allocation for dynamic traffic in elastic optical networks', *Optical Fiber Technology*, 53, pp. 1–8. Available at: <https://doi.org/10.1016/j.yofte.2019.102026>.
- N. (2020) 'A Constrained Maximum Available Frequency Slots on Path Online Routing and Spectrum Allocation for Dynamic Traffic in Elastic Optical Networks', *International Journal of Electronics and Communications*, 66(4), pp. 707–714. Available at: <https://doi.org/10.1016/j.ijec.2020.100000>.



<https://doi.org/10.24425/ijet.2020.134031>.

- Khodashenas, P.S., Comellas, J., Spadaro, S., Perelló, J. and Junyent, G. (2014) 'Using spectrum fragmentation to better allocate time-varying connections in elastic optical networks', *Journal of Optical Communications and Networking*, 6(5), pp. 433–440. Available at: <https://doi.org/10.1364/JOCN.6.000433>.
- Kitsuwan, N., Pavarangkoon, P. and Nag, A. (2020) 'Elastic Optical Network with Spectrum Slicing for Fragmented Bandwidth Allocation', *Optical Switching and Networking*, 38, pp. 1–14. Available at: <https://doi.org/10.1016/j.osn.2020.100583>.
- Kmiecik, W., Goścień, R., Walkowiak, K. and Klinkowski, M. (2014) 'Two-layer optimization of survivable overlay multicasting in elastic optical networks', *Optical Switching and Networking*, 14, pp. 164–178. Available at: <https://doi.org/10.1016/j.osn.2014.06.002>.
- Kodialam, M., Lakshman, T. V., Orlin, J.B. and Sengupta, S. (2007) 'Preconfiguring IP-over-optical networks to handle router failures and unpredictable traffic', *IEEE Journal on Selected Areas in Communications*, 25(5), pp. 934–948. Available at: <https://doi.org/10.1109/JSAC.2007.070607>.
- Labovitz, C., Ahuja, A. and Jahanian, F. (1999) 'Experimental Study of Internet Stability and Backbone Failures', in *Digest of Papers. Twenty-Ninth Annual International Symposium on Fault-Tolerant Computing*, pp. 278–285.
- Li, R., Gu, R., Jin, W. and Ji, Y. (2021) 'Learning-Based Cognitive Hitless Spectrum Defragmentation for Dynamic Provisioning in Elastic Optical Networks', *IEEE Communications Letters*, 25(5), pp. 1600–1604. Available at: <https://doi.org/10.1109/LCOMM.2021.3053279>.
- Liu, S., Lu, W. and Zhu, Z. (2017) 'Multi-layer restoration to address IP router outages in IP-over-EONs', in *Asia Communications and Photonics Conference (ACPC)*, pp. 1–3. Available at: <https://doi.org/10.1364/ACPC.2017.M3C.1>.
- Liu, S., Lu, W. and Zhu, Z. (2018) 'On the Cross-Layer Orchestration to Address IP Router Outages With Cost-Efficient Multilayer Restoration in IP-over-EONs', *Journal of Optical Communications and Networking*, 10(1), pp. A122–A132. Available at: <https://doi.org/10.1364/JOCN.10.00A122>.
- Lu, W., Yin, X., Cheng, X. and Zhu, Z. (2018) 'On Cost-Efficient Integrated Multilayer Protection Planning in IP-Over-EONs', *Journal of Lightwave Technology*, 36(10), pp. 2037–2048.
- Luckie, M. and Beverly, R. (2017) 'The Impact of Router Outages on the AS-level Internet', in *SIGCOMM '17 Proceedings of the Conference of the ACM Special Interest Group on Data Communication*, pp. 488–501.
- Majumdar, P. and De, T. (2019) 'A Distance-Based Adaptive Traffic Grooming Algorithm in Large EON Under Dynamic Traffic Model', in H. Das, P.K. Saha, S.S. Rautaray, and K.-C. Li (eds) *2nd International Conference on Computing, Computing, Analytics and Networking, Advances in Intelligent Systems and Computing*. Singapore: Springer Singapore, pp. 225–236.



- Majumdar, P., Pal, A. and De, T. (2016) 'Extending Light-trail into Elastic Optical Networks for Dynamic Traffic Grooming', *Optical Switching and Networking*, 20, pp. 1–15. Available at: <https://doi.org/10.1016/j.osn.2015.10.005>.
- Mayoral, A., López, V., Gerstel, O., Palkopoulou, E., González de Dios, Ó. and Fernández-Palacios, J.P. (2015) 'Minimizing Resource Protection in IP Over WDM Networks: Multi-Layer Shared Backup Router', *Journal of Optical Communications and Networking*, 7(3), pp. A440–A446. Available at: <https://doi.org/10.1364/JOCN.7.00A440>.
- Moghaddam, E.E., Beyranvand, H. and Salehi, J.A. (2018) 'Routing, Spectrum and Modulation Level Assignment, and Scheduling in Survivable Elastic Optical Networks Supporting Multi-Class Traffic', *Journal of Lightwave Technology*, 36(23), pp. 5451–5461. Available at: <https://doi.org/10.1109/JLT.2018.2874820>.
- Oki, E., Sato, T. and Chatterjee, B.C. (2019) 'Spectrum Fragmentation Management in Elastic Optical Networks', in *21st International Conference on Transparent Optical Networks (ICTON)*. IEEE, pp. 1–4. Available at: <https://doi.org/10.1109/ICTON.2019.8840315>.
- Olszewski, I. (2017) 'Improved dynamic routing algorithms in elastic optical networks', *Photonic Network Communications*, 34, pp. 323–333. Available at: <https://doi.org/10.1007/s11107-017-0700-5>.
- Palkopoulou, E., Gerstel, O., Stiakogiannakis, I., Telkamp, T., López, V. and Tomkos, I. (2015) 'Impact of IP Layer Routing Policy on Multilayer Design', *Journal of Optical Communications and Networking*, 7(3), pp. A396–A402.
- Papanikolaou, P., Christodoulopoulos, K. and Varvarigos, E. (2017) 'Joint Multi-layer Survivability Techniques for IP-Over-Elastic-Optical- Networks', *Journal of Optical Communications and Networking*, 9(1), pp. A85–A98.
- Papanikolaou, P., Christodoulopoulos, K. and Varvarigos, E. (2018) 'Optimization techniques for incremental planning of multilayer elastic optical networks', *Journal of Optical Communications and Networking*, 10(3), pp. 183–194. Available at: <https://doi.org/10.1364/JOCN.10.000183>.
- Pedreno-Manresa, J.J., Izquierdo-Zaragoza, J.L. and Pavon-Marino, P. (2016) 'Joint Fault Tolerant and Latency-Aware Design of Multilayer Optical Networks', in *20th International Conference on Optical Network Design and Modeling*, pp. 1–6. Available at: <https://doi.org/10.1109/ONDM.2016.7494054>.
- Perelló, J., Morea, A., Spadaro, S., Pagès, A., Ricciardi, S., Gunkel, M. and Junyent, G. (2014) 'Power consumption reduction through elastic data rate adaptation in survivable multi-layer optical networks', *Photonic Network Communications*, 28(3), pp. 276–286. Available at: <https://doi.org/10.1007/s11107-014-0450-6>.
- Pióro, M., Tomaszewski, A., Zotkiewicz, M., Klinkowski, M., Jaworski, M. and J. M. (2014) 'Elastic multi-layer resilient IP-over-Flexgrid networking: reduced cost analysis with bandwidth-variable transponders', in *International Conference on Transparent Optical Networks*, pp. 1–5. Available at: <https://doi.org/10.1109/ICTON.2014.6876338>.



- Posam, S.K., Bhyri, S.K., Gowrishankar, R., Challa, V.N. and Sanagapati, S.S.S. (2020) 'Reactive Hitless Hop tuning based Defragmentation Algorithm for Enhanced Spectrum Efficiency in Elastic Optical Networks', in *2020 IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS)*, pp. 1–6. Available at: <https://doi.org/10.1109/ANTS50601.2020.9342786>.
- Proietti, R., Qin, C., Guan, B., Yin, Y., P.Scott, R., Yu, R. and Yoo, S.J.B. (2012) 'Rapid and complete hitless defragmentation method using a coherent RX LO with fast wavelength tracking in elastic optical networks', *Optics Express*, 20(24), pp. 26958–26968.
- Ruiz, M., Pedrola, O., Velasco, L., Careglio, D. and Junyent, G. (2011) 'Survivable IP / MPLS-Over-WSN Multilayer Network Optimization', *Journal of Optical Communications and Networking*, 3(8), pp. 629–640.
- Sambo, N., Castoldi, P., D'Errico, A., Riccardi, E., Pagano, A., Moreolo, M.S., Fabrega, J.M., Rafique, D., Napoli, A., Frigerio, S., Salas, E.H., Zervas, G., Nolle, M., Fischer, J.K., Lord, A. and Gimenez, J.P.F.P. (2015) 'Next Generation Sliceable Bandwidth Variable Transponders', *IEEE Communications Magazine*, pp. 163–171. Available at: <https://doi.org/10.1109/MCOM.2015.7045405>.
- Santos, I.G.S., Monteiro, J.A.S., Soares, A.C.B., Fontinelle, A.C. and Campelo, D.R. (2021) 'A Spectrum Spacing Mechanism to Enhance Traffic Grooming in Elastic Optical Networks', *Photonic Network Communications*, 42, pp. 49–59. Available at: <https://doi.org/10.1007/s11107-021-00943-x>.
- Selvakumar, S. and Manivannan, S.S. (2022) 'A Spectrum Defragmentation Algorithm Using Jellyfish Optimization Technique in Elastic Optical Network (EON)', *Wireless Personal Communications*, 127, pp. 1187–1205. Available at: <https://doi.org/10.1007/s11277-021-08572-3>.
- Shen, G., Guo, H. and Bose, S.K. (2016) 'Survivable Elastic Optical Networks: Survey and Perspective', *Photonic Network Communications*, 31(1), pp. 71–87. Available at: <https://doi.org/10.1007/s11107-015-0532-0>.
- Stiakogiannakis, I., Palkopoulou, E., Klonidis, D., Gerstel, O. and Tomkos, I. (2014) 'Dynamic Cooperative Spectrum Sharing and Defragmentation for Elastic Optical Networks', *Journal of Optical Communications and Networking*, 6(3), pp. 259–269. Available at: <https://doi.org/10.1364/JOCN.6.000259>.
- Takagi, T., Hasegawa, H., Sato, K., Sone, Y., Hirano, A. and Jinno, M. (2011) 'Disruption Minimized Spectrum Defragmentation in Elastic Optical Path Networks that Adopt Distance Adaptive Modulation', in *37th European Conference and Exposition on Optical Communications*. Washington, D.C.: OSA, pp. 1–3. Available at: <https://doi.org/10.1364/ECOC.2011.Mo.2.K.3>.
- Ujjwal, Thangaraj, J. and Rajnish kumar (2021) 'Multi-path provisioning in elastic optical network with dynamic on-request optimal defragmentation strategy', *Optical Switching and Networking*, 41, pp. 1–14. Available at: <https://doi.org/10.1016/j.osn.2021.100607>.



L., Klinkowski, M., Ruiz, M. and Comellas, J. (2012) 'Modeling the grooming and spectrum allocation problem for flexgrid optical networks', *Photonic*

- Network Communications*, 24(3), pp. 177–186. Available at: <https://doi.org/10.1007/s11107-012-0378-7>.
- Wan, X., Hua, N., Zhang, H. and Zheng, X. (2012) ‘Study on dynamic routing and spectrum assignment in bitrate flexible optical networks’, *Photonic Network Communications*, 24, pp. 219–227. Available at: <https://doi.org/10.1007/s11107-012-0382-y>.
- Wang, C., Shen, G. and Bose, S.K. (2015) ‘Distance Adaptive Dynamic Routing and Spectrum Allocation in Elastic Optical Networks with Shared Backup Path Protection’, *Journal of Lightwave Technology*, 33(14), pp. 2955–2964. Available at: <https://doi.org/10.1109/JLT.2015.2421506>.
- Wang, R. and Mukherjee, B. (2013) ‘Provisioning in Elastic Optical Networks with Non-Disruptive Defragmentation’, *Journal of Lightwave Technology*, 31(15), pp. 2491–2500. Available at: <https://doi.org/10.1109/JLT.2013.2268535>.
- Yadav, D.S. (2021) ‘RDRSA: A Reactive Defragmentation based on Rerouting and Spectrum Assignment (RDRSA) for Spectrum Convertible Elastic Optical Network’, *Optics Communications*, 496, pp. 1–8. Available at: <https://doi.org/10.1016/j.optcom.2021.127144>.
- Zhang, G., De Leenheer, M., Morea, A. and Mukherjee, B. (2013) ‘A Survey on OFDM-Based Elastic Core Optical Networking’, *IEEE Communications Surveys & Tutorials*, 15(1), pp. 65–87. Available at: <https://doi.org/10.1109/SURV.2012.010912.00123>.
- Zhang, M., You, C., Jiang, H. and Zhu, Z. (2014) ‘Dynamic and Adaptive Bandwidth Defragmentation in Spectrum-Sliced Elastic Optical Networks With Time-Varying Traffic’, *Journal of Lightwave Technology*, 32(5), pp. 1014–1023.
- Zhang, W., Bathula, B.G., Sinha, R.K., Doverspike, R., Magill, P., Raghuram, A. and Choudhury, G. (2015) ‘Evolution of the IP-over-Optical Core network’, in *2015 11th International Conference on the Design of Reliable Communication Networks, DRCN 2015*, pp. 227–234. Available at: <https://doi.org/10.1109/DRCN.2015.7149017>.
- Zhang, Yunrong, Zhang, Ya, Li, Y., Shen, G., Yan, Y. and Chen, W. (2018) ‘Cross-Layer Spectrum Defragmentation for IP over Elastic Optical Network’, in *2018 Asia Communications and Photonics Conference (ACP)*. IEEE, pp. 1–4.
- Zhao, J., Xu, Y., Ren, D. and Hu, J. (2020) ‘A Cross-Layer Traffic Grooming Algorithm in Joint Optimization of the IP over Elastic Optical Network’, *Journal of Optical Communications*, 41(1), pp. 73–82. Available at: <https://doi.org/10.1515/joc-2017-0143>.



LAMPIRAN



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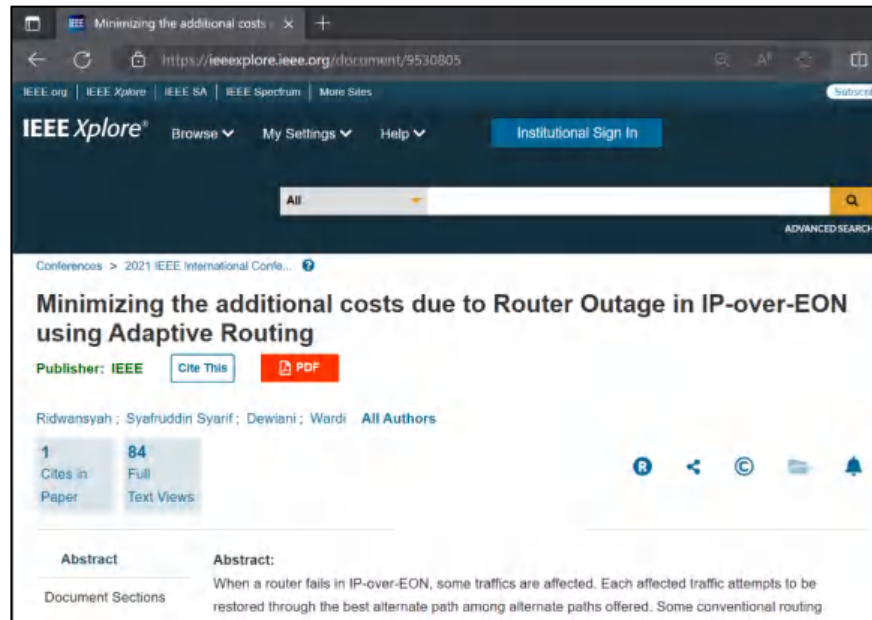
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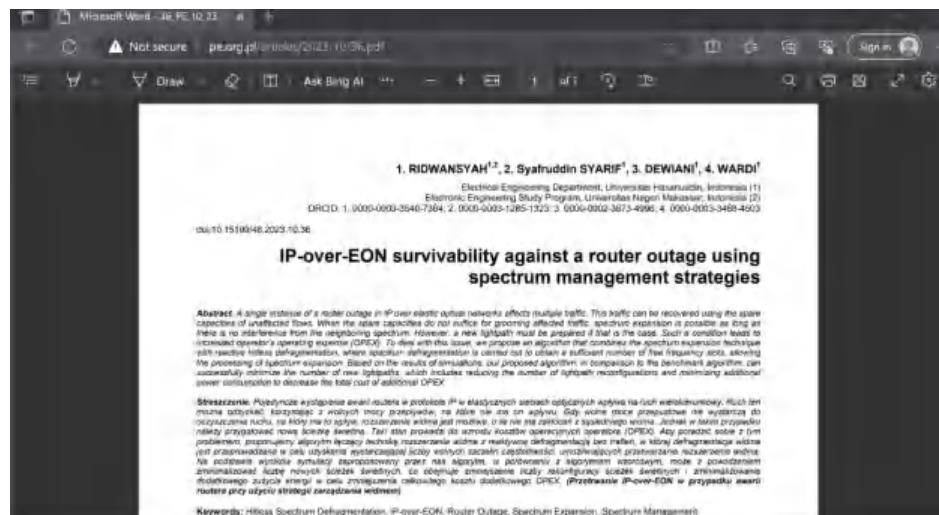
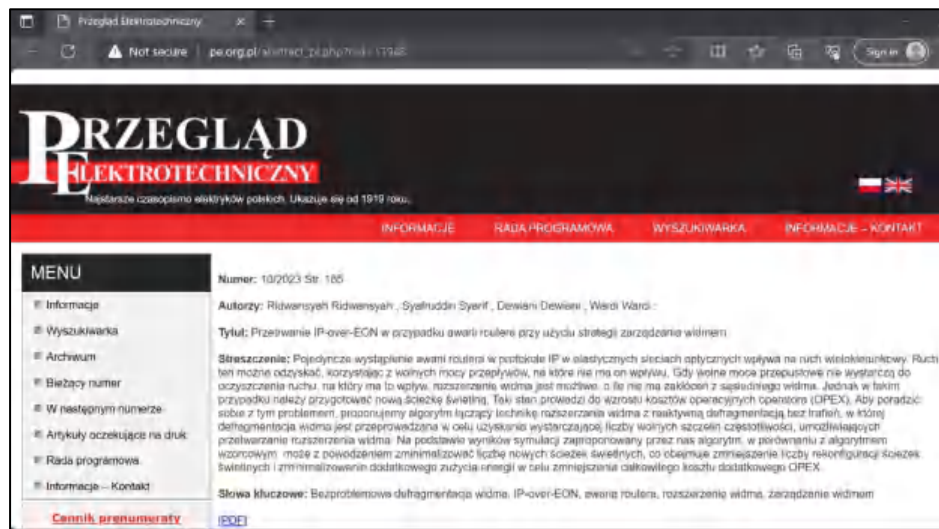
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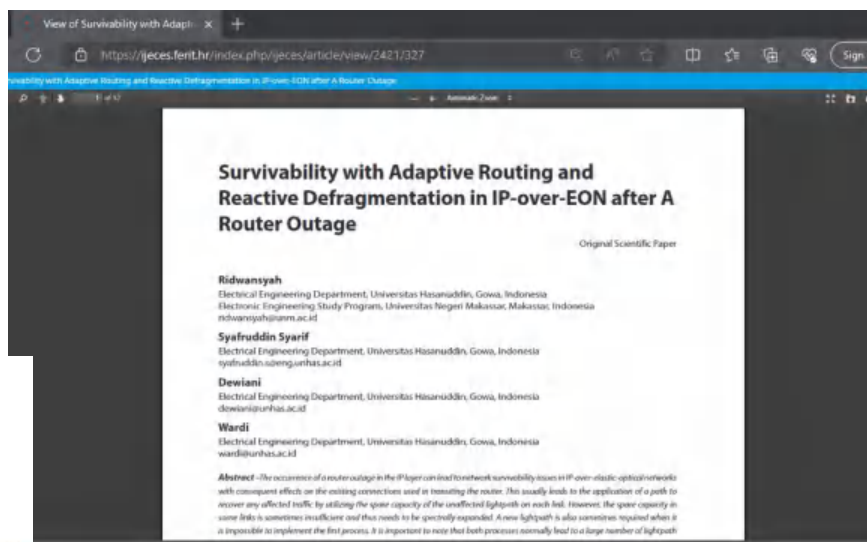
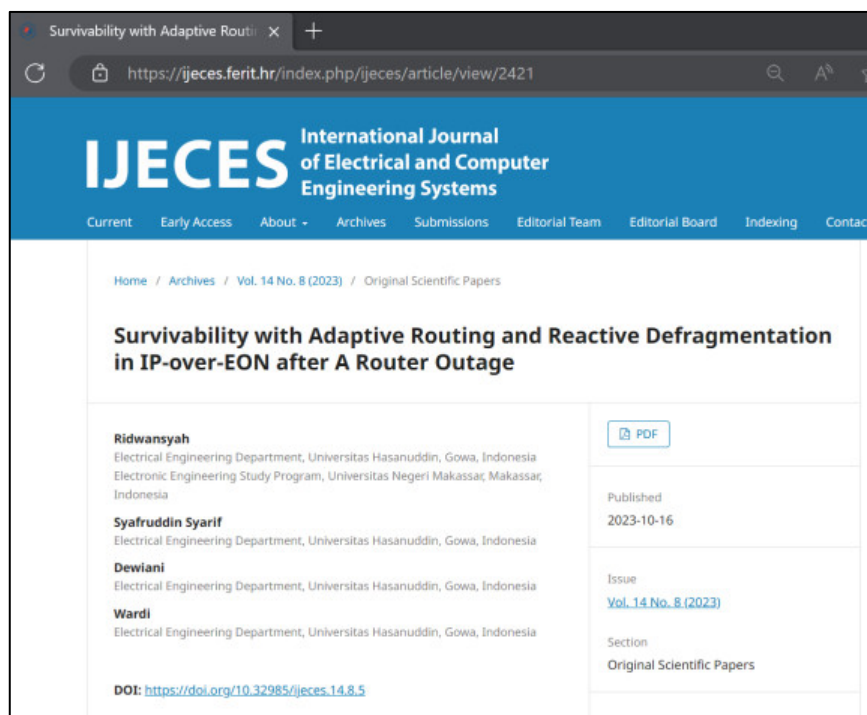
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C. Publikasi Artikel Ilmiah Dalam Jurnal (5 Tahun Terakhir)

No	Judul Artikel Ilmiah	Nama Jurnal	Volume/Nomor/ Tahun
1	<i>Survivability with Adaptive Routing and Reactive Defragmentation in IP-over-EON after A Router Outage</i>	International Journal of Electrical and Computer Engineering Systems	Volume 14, Issue 10, Oktober 2023, Pages 869-880
2	<i>IP-over-EON Survivability Against a Router Outage using Spectrum Management Strategies</i>	Przegląd Elektrotechniczny	Volume 2023, Issue 10, Oktober 2023, Pages 185-191
3	A system model for real-time monitoring and geospatial data for the simulation of surveillance of COVID-19 in Makassar, Indonesia	Journal of Public Health and Development	Volume 21, Issue 2, April 2023, Pages 126-139
4	Development of an Intelligent Mobile Health Monitoring System for the Health Surveillance System in Indonesia	Innovation and Research in BioMedical engineering (IRBM)	Volume 42, Issue 1, February 2021, Pages 28-34



5	The Development of an intelligent e-health Mobile Application in Indonesia: A Preliminary Study	International Series on Interdisciplinary Science and Technology (INSIST)	Vol. 4 No. 2, October 2019, Pages 240–245
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D. Publikasi Artikel Ilmiah Dalam Konferensi (5 Tahun Terakhir)

No	Nama Temu ilmiah /Seminar	Judul Artikel Ilmiah	Waktu, Tempat, dan Penerbit
1	10th International Conference on Communication, Networks and Satellite (COMNETSAT)	Minimizing the additional costs due to Router Outage in IP-over-EON using Adaptive Routing	17-18 Juli 2021, Purwokerto, Indonesia, Penerbit: IEEEExplore
2	Proceedings of the 2nd International Conference on Biosciences and Medical Engineering (ICBME 2019)	Proficiency Test Analysis of a Simple Electro-dermal Activity Measurement Technique for Measuring an Emotional Task	11-12 April 2019, Bali, Indonesia, Penerbit: AIP Publishing
3	The 3rd International Conference on Mathematics, Science, Technology, Education and their Application	ICT Strategy and Micro-Entrepreneurs Growth: The Indonesian Case	29-30 September 2018, Makassar, Indonesia, Penerbit: IOP Publishing

