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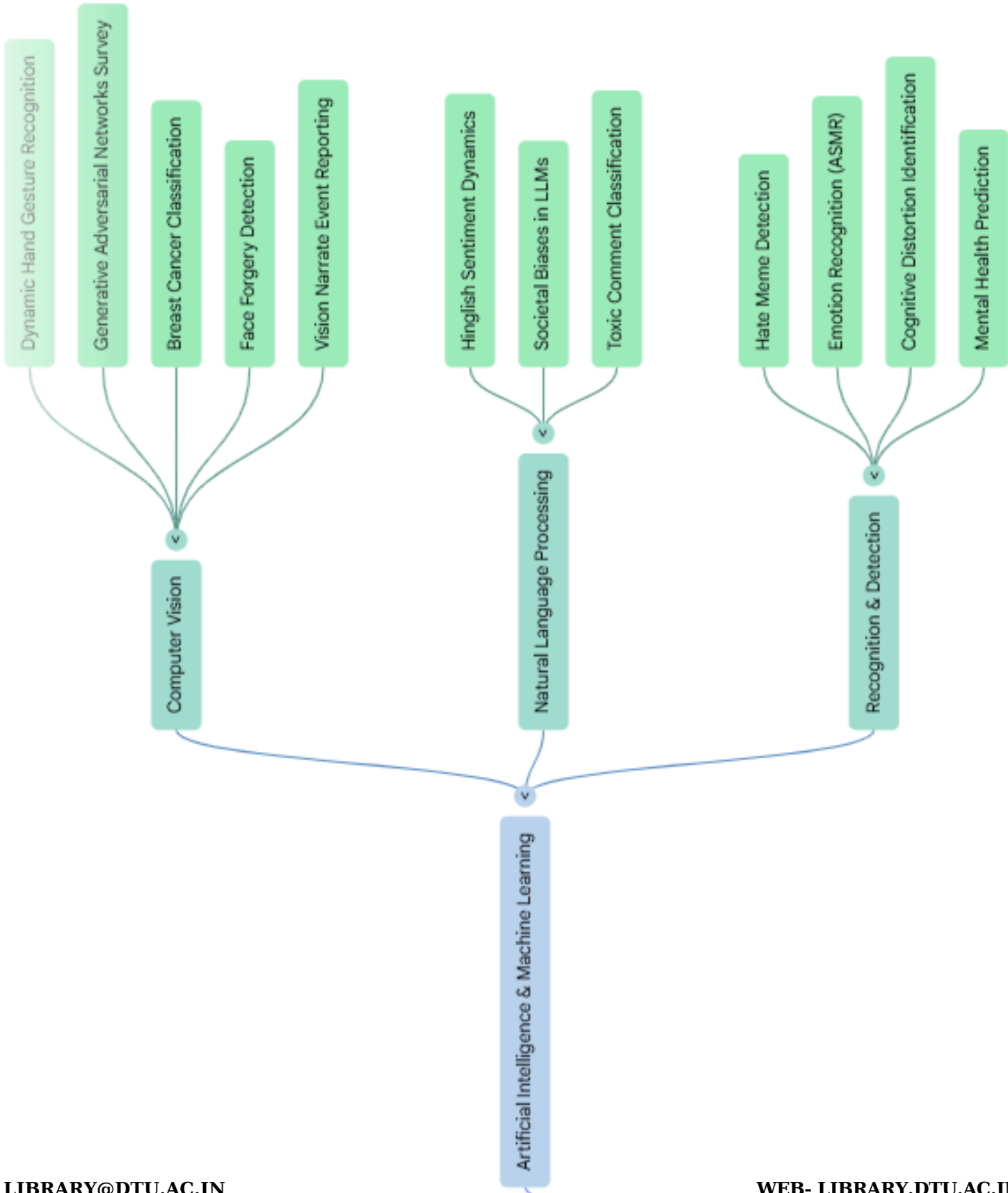
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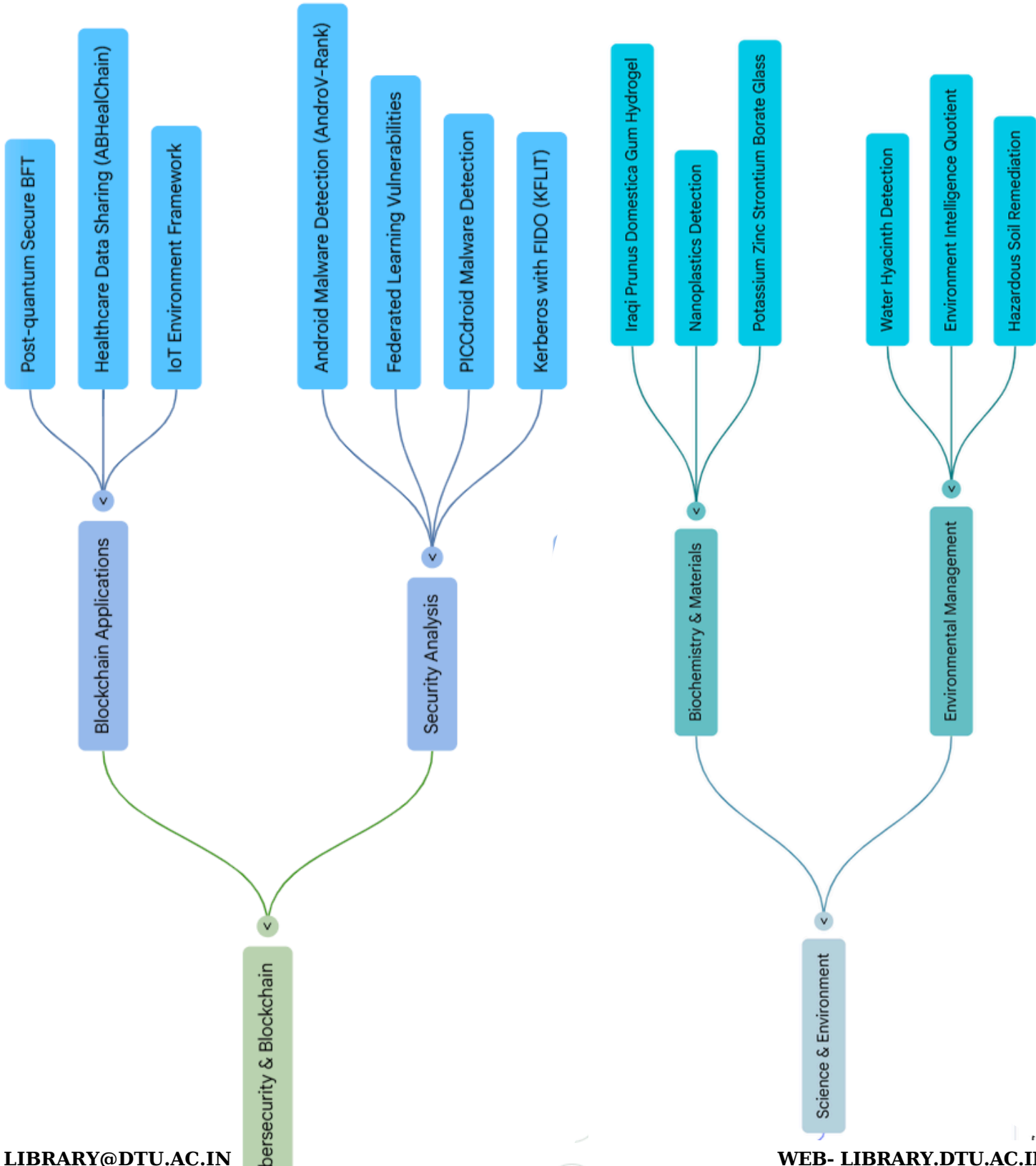
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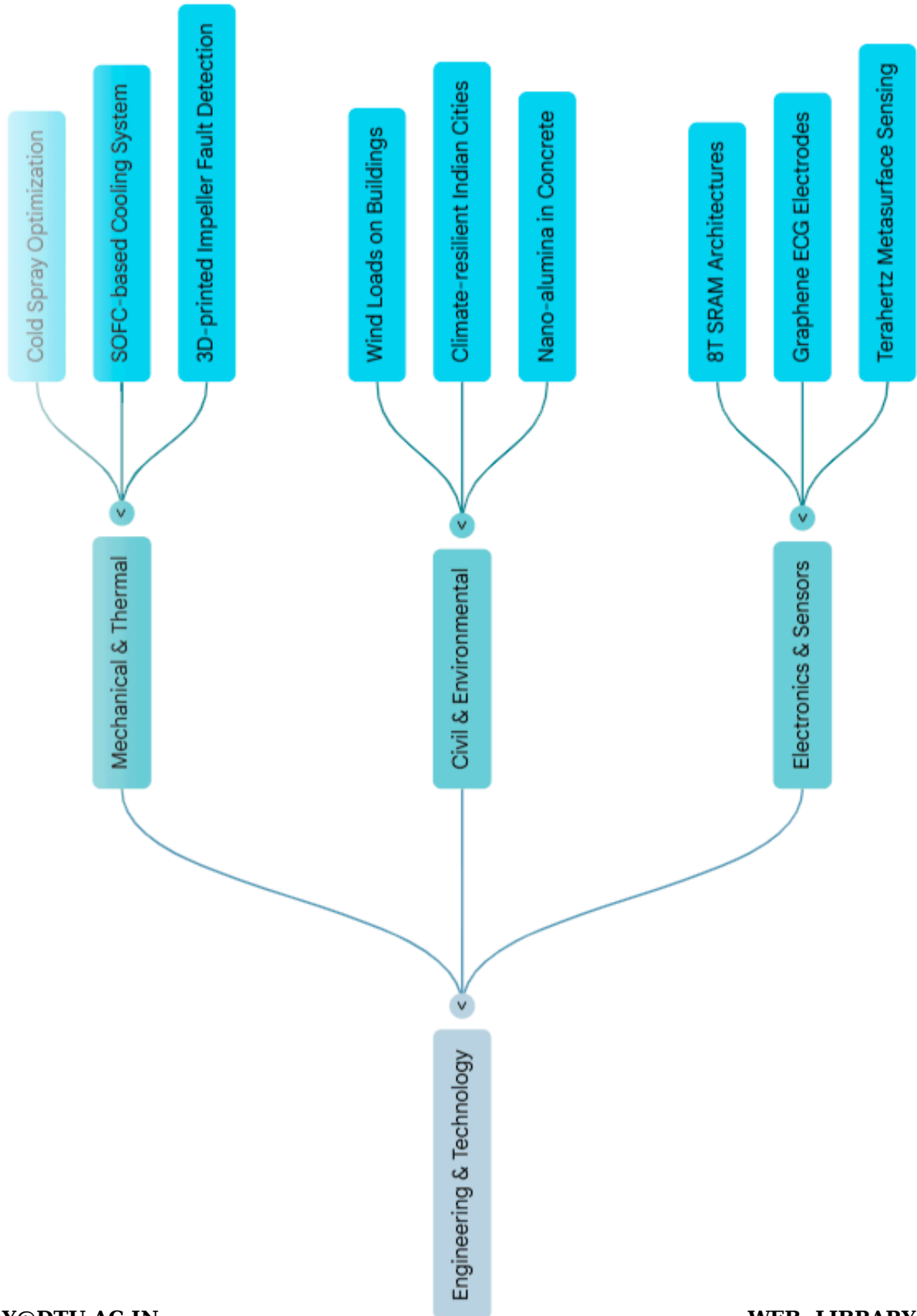
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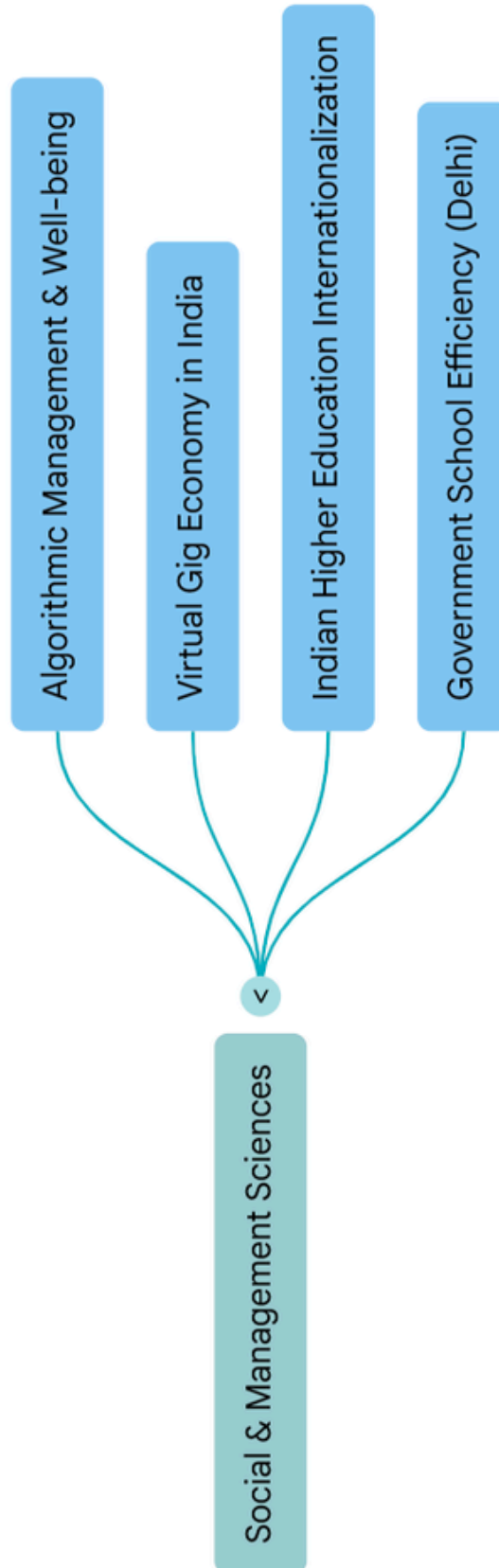
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1. **A Comparative Analysis of Machine Learning Techniques in Traffic Signal Control Systems**
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Ranga, V.,
Meena, J.
Lecture Notes in
Networks and Systems,
1712 LNNS, pp. 381-392.

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Tripathi, R.,
Verma, B.
Lecture Notes in
Networks and Systems,
1710 LNNS, pp. 227-238.

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Ranjan, P.,
Nandal, A.,
Agarwal, S.,
Kumar, R.
Remote Sensing, 18(2),
art. no. 196.

4. **A Novel Hydrogel Derived From Iraqi Prunus Domestica Gum (PDG) Grafted Lignite Copolymers: Synthesis, Characterization, and Agricultural Uses**
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Shaheed, M.A.,
Nandal, M.,
Kumar, D.,
Gupta, R.K.
Chemistryselect, 11(5),
art. no. e06690.

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[View Paper](#)
Singh, R.,
Chandra, E.S.,
Sai, K.S., (...),
Rana, S.,
Chaudhary, D.
Lecture Notes in
Networks and Systems,
1673 LNNS, pp. 547-557.

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-
- | | | | |
|----|---|--------------------------------|--|
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Kumar, V.</p> | <p>Communications in Computer and Information Science, 2764 CCIS, pp. 79-92.</p> |
|----|---|--------------------------------|--|
-
- | | | | |
|----|--|--|---|
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Jain, S.,
Sharma, M.</p> | <p>Mathematical Modelling and Analysis, 31(1), pp. 26-46.</p> |
|----|--|--|---|
-
- | | | | |
|----|---|---|---|
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Ranga, V.,
Agarwal, R.</p> | <p>Concurrency and Computation Practice and Experience, 38(3), art. no. e70592.</p> |
|----|---|---|---|
-
- | | | | |
|----|---|-------------------------------------|---|
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Dahiya, S.</p> | <p>Environmental Monitoring and Assessment, 198(2), art. no. 179.</p> |
|----|---|-------------------------------------|---|
-
- | | | | |
|-----|---|---|---|
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Singh, P.</p> | <p>Microchemical Journal, 222, art. no. 117228.</p> |
|-----|---|---|---|



-
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[View Paper](#)
-
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-
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[View Paper](#)
-
14. **Bound state in the continuum induced high-Q resonances in all-dielectric terahertz metasurface for enhanced refractive index sensing** Agarwal, P., Kishor, K., Sinha, R.K. Applied Physics A Materials Science and Processing, 132(3), art. no. 140.
[View Paper](#)
-
15. **Bound state in the continuum induced high-Q resonances in all-dielectric terahertz metasurface for enhanced refractive index sensing** Agarwal, P., Kishor, K., Sinha, R.K. Applied Physics A Materials Science and Processing, 132(3), art. no. 140.
[View Paper](#)
-



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[View Paper](#)

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[View Paper](#)

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[View Paper](#)

19. COEFFICIENT FUNCTIONALS AND BOHR-ROGOSINSKI PHENOMENON FOR ANALYTIC FUNCTIONS INVOLVING SEMIGROUP GENERATORS Giri, S., Kumar, S.S. Rocky Mountain Journal of Mathematics, 55(5), pp. 1315-1329.

[View Paper](#)

20. Comprehensive Judd Ofelt and luminescence analysis of Dy³⁺ and Dy³⁺/Sm³⁺/Co-doped potassium zinc strontium borate glass for lasing and w-LEDs applications Kumari, P., Kumar, A., Kumari, S., (...), Prasad, A., Rao, A.S. Ceramics International, 52(4), pp. 4614-4624.

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-
- | | | | |
|-----|--|-------------------------|--|
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View Paper | Kisku, S.,
Murmu, A. | Communications in
Computer and
Information Science, 2717
CCIS, pp. 440-447. |
|-----|--|-------------------------|--|
-
- | | | | |
|-----|---|---|--|
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Verma, O.P.,
Taran, S. | Signal Image and Video
Processing, 20(2), art. no.
76. |
|-----|---|---|--|
-
- | | | | |
|-----|--|---|--|
| 23. | <u>Deepfake Detection Using EfficientNet and Gated Recurrent Unit-Based Hybrid Model</u>

View Paper | Sawhney, V.K.,
Rao, V.,
Meena, V.,
Kumar, S. | Lecture Notes in Networks
and Systems, 1497 LNNS,
pp. 455-466. |
|-----|--|---|--|
-
- | | | | |
|-----|---|--|--|
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View Paper | Mangotra, I.,
Jain, A.,
Jain, M., (...),
Chawla, N.,
Patil, V. | Lecture Notes in
Networks and Systems,
1515 LNNS, pp. 513-
523. |
|-----|---|--|--|
-
- | | | | |
|-----|---|---|--|
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View Paper | Dahiya, A.,
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Rohilla, R. | Lecture Notes in Networks
and Systems, 1795 LNNS,
pp. 123-133. |
|-----|---|---|--|



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26. **Developing Environment Intelligence Quotient: A Path to Sustainability**
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 Kumar Srivastava, M., Corporate Social Responsibility and Environmental Management
 Deepika, Gupta, G.
-
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[View Paper](#)
 Sharma, S., Leadership and Organization Development Journal, pp.1-25.
 Mittal, A.,
 Seema, S.
-
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 Open Access
[View Paper](#)
 Rahman, I., Scientific Reports, 16(1), art. no. 5346.
 Dev, N.,
 Arif, M., (...),
 Yusufi, F.N.K.,
 Alam, M.M.
-
29. **ELA-BLIP 2.0: Bridging Visual Forensics and Sentence Generation with ViT-Based Forgery Detection**
[View Paper](#)
 Singh, C., Lecture Notes in Networks and Systems, 1723 LNNS, pp. 162-172.
 Dabas, B.,
 Shakya, D.K.,
 Verma, B.
-
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[View Paper](#)
 Gahlan, N., Physiological Measurement, 47(1).
 Sethia, D.



-
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-
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[View Paper](#)
-
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-
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-
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[View Paper](#)



36. Exergy, energy, economic and environmental evaluations of a SOFC-based cooling system Mishra, S. International Journal of Exergy, 49(1), pp. 21-32.
- [View Paper](#)
-
37. Experimental investigation and parametric impact of current, travel speed, and CTWD on SS316L WAAM structures Jain, S.K., Lal, B., Murtaza, Q., (...), Pandey, S.M., Prasad, B. Welding in the World.
- [View Paper](#)
-
38. Experimental Investigation of Wind Loads on Domical shapes for Low-Rise Buildings Verma, A., Sharma, D., Rahman, S., (...), Ahuja, A.K., Raj, R. Journal of the Institution of Engineers India Series A.
- [View Paper](#)
-
39. Fabrication and Analysis of Graphene and Its Hybrid-Based ECG Electrodes for Wireless Healthcare Applications Gandhi, B., Raghava, N.S. Lecture Notes in Networks and Systems, 1509 LNNS, pp. 37-51.
- [View Paper](#)
-
40. Filtered backstepping controller for a nonlinear singularly perturbed switched systems based on contraction analysis Prasad, D., Valluru, S.K. Sadhana Academy Proceedings in Engineering Sciences, 51(1), art. no. 39.
- [View Paper](#)



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-
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- [View Paper](#)
-
42. **Global research landscape of artificial intelligence in orthopaedics: A decade of trends from a Scopus-based bibliometric analysis (2015–2025)** Regmi, A., Jain, V., Baral, S., Niraula, B.B. Journal of Clinical Orthopaedics and Trauma, 73, art. no. 103342. Open Access
- [View Paper](#)
-
43. **Hate Meme Detection Using Transformer-Based Text and Vision Models: A Multimodal Approach** Sinha, U., Goel, S., Harish, T., Sisaudia, V. Lecture Notes in Networks and Systems, 1711 LNNS, pp. 43-56.
- [View Paper](#)
-
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-
45. **Hybrid LSTM-SVM with Aquila Optimization Based Optimal Feature Selection for Effective Recommender System** Beniwal, N., Verma, O.P. IEICE Transactions on Fundamentals of Electronics Communications and Computer Sciences, E109.A(2), pp. 94-102. Open Access
- [View Paper](#)



46. Hybrid optimization algorithm based optimal position selection for watermarking in relational database Chhikara, K., Kumar, M. Distributed and Parallel Databases, 44(1), art. no. 4.
[View Paper](#)
-
47. Identification of Cognitive Distortions Using Weighted Ensemble Approach Rajput, V., Bhati, G., Jain, A., (...), Jain, M., Kapoor, M. Lecture Notes in Networks and Systems, 1515 LNNS, pp. 275-285.
[View Paper](#)
-
48. In vitro assessment of P-glycoprotein-mediated antiseizure medications efflux in a blood-brain barrier cell model Paul, P.R., Bora, S., Srivastava, A., (...), Mishra, M.K., Kukreti, R. Journal of Pharmacy and Pharmacology, 78(2), art. no. rgaf099.
[View Paper](#)
-
49. IN625 buttering assisted GMAW for high-integrity DSS 2205/AISI 4140 dissimilar welds Bagchi, A., Srinivas, K., Murtaza, Q., Kumar, A. Materials Today Communications, 50, art. no. 114650.
[View Paper](#)
-
50. The extension and morphological dependence of dislocations on degradation of electrical properties of HgCdTe/CdZnTe detectors Kumari, A., Kumar, S., Raw, R.S. Lecture Notes in Networks and Systems, 1722 LNNS, pp. 202-216.
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- Kumar, R.,
Singh, J.,
Kulriya, P.K.,
Kumar, M.,
Singh, V.
- Journal of Materials
Science Materials in
Electronics, 37(5), art.
no. 383.
-
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- Kardam, K.,
Rao, A.S.,
Sinha, R.K.
- Physica B Condensed
Matter, 727, art. no. 418319.
-
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- Suri, A.,
Sharma, Y.
- Informal Business Sector
in Brics Countries
Sustainable Economic
Development in the
Global South, pp. 129-
146.
-
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- Tyagi, H.,
Sethia, D.
- Lecture Notes in Networks
and Systems, 1711 LNNS,
pp. 418-441.
-
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- Sutone, R.,
Malhotra, R.
- Indiscon 2025 IEEE 6th
India Council International
Subsections Conference
Proceedings.



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Maliya, R.,
Kumar, A. Disability and Rehabilitation Assistive Technology.
[View Paper](#)
-
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Dubey, A.,
Arora, A. Environmental Progress and Sustainable Energy.
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-
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Mittal, A.,
Seema, S. Kybernetes, pp. 1-26.
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-
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[View Paper](#)
-
60. **Microbiome disharmony: a catalyst in breast cancer progression and influencing surgical outcomes** Aind, R.,
Raju, S.,
Verma, S.R. Minerva Biotechnology and Biomolecular Research, 37(4), pp. 191-201.
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- | | | | |
|-----|---|---|---|
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Aslam, A.,
Malhotra, R.</p> | <p>Lecture Notes in Networks and Systems, 1712 LNNS, pp. 393-404.</p> |
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Sweety,
Hudda, D.,
Kumar, D.</p> | <p>Journal of Materials Science, 61(9), pp. 5860-5876.</p> |
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Jakhar, A.,
Sharma, R.K.</p> | <p>Communications in Algebra.</p> |
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Ansari, N.A.,
Gautam, R.</p> | <p>Fuel, 415, art. no. 138435.</p> |
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Rao, A.S.,
Baghel, S.</p> | <p>Journal of Electronic Materials.</p> |



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66. **Photoluminescent properties of Bi³⁺ doped BaZr(PO₄)₂ and energy transfer in Bi³⁺, Tb³⁺ codoped phosphors** Yadav, S.,
Kaur, S.,
Rao, A.S.,
Meena, D. Journal of Luminescence,
293, art. no. 121793.
- [View Paper](#)
-
67. **Physics-Informed Adaptive Conformal Prediction for Wind Power under Dynamic Weather Regimes** Dhaka, P.,
Sreejeth, M.,
Tripathi, M.M. IEEE Transactions on
Industry Applications.
- [View Paper](#)
-
68. **PICCdroid: A novel permissions and intent correlation coefficient based android malware detection method** Jain, S.,
Arora, A.,
Kumar, D. International Journal of
Information Security, 25(1),
art. no. 39.
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-
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Yadav, S.,
Duhan, M.,
Tiwari, D.,
Kaur, R. Chemistryselect, 11(5), art.
no. e03770.
- [View Paper](#)
-
70. **Probing into the binding mechanism of phosphorus(V)-corrole with hemoglobin using photophysical and computational approach** Kritika,
Kubba, R.,
Kumar, L., (...),
Kumar, A.,
Roy, I. Scientific Reports, 16(1),
art. no. 6097.
- Open Access**
- [View Paper](#)



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CONTRIBUTIONS OF DTU)

71. **Quantitative resolution of grain boundary impedance in Ce-doped Li₇La₃Zr₂₀12 through the distribution of relaxation time analysis and electrochemical performance in quasi solid-state batteries** Jadaun, S.S., Panwar, A.K., Geetanjali Applied Physics Letters, 128(2), art. no. 023905.
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-
72. **Recent Advancements, Challenges, and Future Directions of Lithium-Sulfur Battery** Open Access Kumar, D., Rizwan, M., Panwar, A.K. Ionics.
[View Paper](#)
-
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[View Paper](#)
-
74. **Remediation of hazardous explosive-contaminated soil at field scale: a data-oriented review of technologies, challenges and recommendations** Upreti, G., Celin, S.M., Yadav, K., (...), Bose, D.B., Kumar, A. Environmental Monitoring and Assessment, 198(2), art. no. 166.
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-
75. **Role of SiC nanoparticle reinforcement in the mechanical and metallurgical characterization of friction stir-welded dissimilar AZ91D and AA6061-T6 joints** Gaurav, S., Zunaid, M., Mishra, R.S. Sadhana Academy Proceedings in Engineering Sciences, 51(1), art. no. 27.
[View Paper](#)



76. **Self-healing Aeronautical Nanocomposites** Bohidar, H.B. Advanced Structured Materials, 248, pp. 149-176.
[View Paper](#)
-
77. **Smart sensor and artificial intelligence technologies for postharvest loss reduction and food safety in nutri-cereals** Yadav, N., Sharma, A., Suvedi, D., (...), Sharma, A., Abdi, G. Journal of Stored Products Research, 116, art. no. 102962.
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-
78. **Structural modelling of enablers driving internationalization in indian higher education: A Fuzzy-TISM analysis** Mishra, R., Chaudhary, S. International Journal of Educational Development, 121, art. no. 103505.
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-
79. **Study and Analysis of Machine and Deep Learning Based Existing Techniques for Plant Disease Classification** Srivastava, M., Sisaudia, V., Meena, J. Lecture Notes in Networks and Systems, 1712 LNNS, pp. 173-182.
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-
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Jain, V.,
Barik, S., (...),
Madhav Ojha, M.,
Kumar, V.
- Journal of Clinical Orthopaedics and Trauma, 72, art. no. 103290.
-
82. **Torque Ripple Mitigation and Rotor Position Error Reduction in PMSM Sensorless Drives via ANFIS-SMO**
[View Paper](#)
- Sangar, B.,
Ranjan, S.,
Singh, M.,
Sreejeth, M.
- Arabian Journal for Science and Engineering.
-
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- Saxena, A.,
Dhiman, C.
- Indiscon 2025 IEEE 6th India Council International Subsections Conference Proceedings.
-
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- Verma, M.,
Sharma, S.C.
- Nanotechnology, 37(3).
-
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Open Access
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- Garg, R.,
Kumar, T.V.,
Singh, S.K.
- Clean Soil Air Water, 54(1), art. no. e70090.



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CONTRIBUTIONS OF DTU)

86. Vibrothermal signal-based fault
detection in 3D-printed polymer
pump impellers

Saxena, A.,
Rani, S.

Flow Measurement and
Instrumentation, 108, art.
no. 103201.

[View Paper](#)

87. Vision Narrate: an AI
architecture to write reports
based on event images

Parmar, S.,
Rahul,
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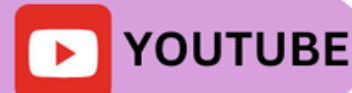
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