





































- [4] Vandana C.P., Chikkamannur A.A., "Semantic ontology based IoT-resource description", *Int J Adv Netw Appl.* 2019;11(6):3022–3.
- [5] Vandana. C. P., A. A. Chikkamannur, "Semantic Annotation of IoT Resource with ontology orchestration", 2020 Third International Conference on Advances in Electronics, Computers and Communications (ICAIECC), Bengaluru, India, 2020, pp. 1-7, doi: 10.1109/ICAIECC50550.2020.9339490.
- [6] O. Vermesan and P. Friess, *Internet of things-from research and innovation to market deployment.* River Publishers Aalborg, 2014.
- [7] Charith Perera, Arkady Zaslavsky, Peter Christen, Michael Compton, Dimitrios Georgakopoulos, "Context-aware Sensor Search, Selection and Ranking Model for Internet of Things Middleware", *Proceedings of the IEEE 14th International Conference on Mobile Data Management (MDM)*, Milan, Italy, June, 2013 DOI: 10.1109/MDM.2013.46
- [8] Ebrahimi, M., Shafieibavani, E., Wong, R.K., Chi, C.H.: A new meta-heuristic approach for efficient search in the Internet of Things. In: *IEEE International Conference on Services Computing (2015)*
- [9] L. H. Nunes, J. C. Estrella, C. Perera, S. Reiff-Marganiec, and A. C. Botazzo Delbem, "Multi-criteria iot resource discovery: a comparative analysis," *Software: Practice and Experience*, pp. n/a–n/a, 2016, spe.2469.
- [10] L. H. Nunes, J. C. Estrella, C. Perera, S. Reiff-Marganiec, and A. C. Delbem, "The elimination-selection based algorithm for efficient resource discovery in internet of things environments," in *Consumer Communications & Networking Conference (CCNC)*, 2018 15th IEEE Annual. IEEE, 2018, pp. 1–7.
- [11] S. Abdelwahab, B. Hamdaoui, M. Guizani, and T. Znati, "Cloud of things for sensing as a service: Sensing resource discovery and virtualization," in *2015 IEEE Global Communications Conference (GLOBECOM)*, Dec 2015, pp. 1–7.
- [12] F. Khodadadi, A. V. Dastjerdi, and R. Buyya, "Simurgh: A framework for effective discovery, programming, and integration of services exposed in IoT," in *2015 International Conference on Recent Advances in Internet of Things (RIoT)*. Institute of Electrical & Electronics Engineers (IEEE), April 2015.
- [13] Soroush Ojagh, Mohammad Reza Malek, Sara Saeedi, Steve Liang, "A location-based orientation-aware recommender system using IoT smart devices and Social Networks", *Future Generation Computer Systems*, Volume 108, July 2020, Pages 97-118
- [14] Ibrahim Mashal, Osama Alsaryrah, Tein-Yaw Chung, Fong-Ching Yuan, "A multi-criteria analysis for an internet of things application recommendation system", *Technology in Society*, Vol. 60, February 2020,
- [15] Jin X, Chun S, Jung J, Lee K.H, "A fast and scalable approach for IoT service selection based on a physical service model", *Inf.Syst. Front.* 19, 1357–1372 (2017). <https://doi.org/10.1007/s10796-016-9650-1>
- [16] Chan, C. Y., Jagadish, H. V., Tan, K. L., Tung, A. K., and Zhang, Z., "Finding k-dominant skylines in high dimensional space," in *Proc. of the ACM SIGMOD international conference on Management of data*, pp.503-514, ACM, 2006
- [17] Manisha Singh, Gaurav Baranwal, Anil Kumar Tripathi, "QoS-Aware Selection of IoT-Based Service", *Arabian Journal for Science and Engineering*, 45:10033–10050
- [18] Renato Dilli, Amanda Argou, Mauricio Pilla, Ana Marilza Pernas, Renata Reiser, Adenauer Yamin, "Fuzzy logic and MCDA in IoT resources classification", *SAC '18: Proceedings of the 33rd Annual ACM Symposium on Applied Computing* April 2018 Pages 761–766 <https://doi.org/10.1145/3167132.3167216>
- [19] Vandana C.P., Dr. Ajeet A. Chikkamannur, "An Ameliorated Ensemble Approach for IoT Resource Feature Selection Based on Discriminating and Service Relevance Criteria", *International Journal of Intelligent Engineering and Systems* 14 (3), March 2021, 435-446
- [20] <https://www.ietfforall.com/using-the-internet-of-things-for-smart-office-automation>
- [21] <https://components101.com/resistors/ldr-datasheet>
- [22] <https://create.arduino.cc/projecthub/Cmtelesann/monitoring-temperature-remotely-with-blynk-for-dummies-aa910b>
- [23] Leo Louis, "Working Principle Of Arduino And Using It As A Tool For Study And Research", *International Journal Of Control, Automation, Communication And Systems*, Vol.1, No.2, April 2016
- [24] Vandana, C.P., Chikkamannur, A.A., "S-COAP: Semantic Enrichment of COAP for Resource Discovery", *SN COMPUT. SCI.* 1, 88 (2020). <https://doi.org/10.1007/s42979-020-0104-y>
- [25] SPARQL Query Language. <https://www.w3.org/TR/sparql11-query/>. Accessed 20 Aug 2019

## Authors Profile



**Vandana C.P.**, research scholar in department of Computer Science and Engineering in Visvesvaraya Technological University (VTU), India. She completed her M.Tech in Computer Network Engineering. She is working as Assistant Professor at New Horizon College of Engineering, Bangalore. She has 6 years of Industry experience in Network Management Solution (NMS) products and 8 years of academic experience. Her research areas include networking, machine learning, Internet of Things (IoT), Storage Area Network (SAN), Database Management Systems (DBMS).



**Dr. Ajeet A. Chikkamannur** obtained Ph.D. and M.Tech in Computer Science and Engineering from Visvesvaraya Technological University Belagavi, respectively, in 2013 and 2001. He is currently working in the Department of Computer Science and Engineering, R L Jalappa Institute of Technology, Doddaballapur, Bangalore, as Professor and Head, Computer Science and Engineering Program and Research Centre. His research domain includes Software Engineering, Reverse Engineering, Database Management Systems, Object Technology, and Internet of Things. He is an active keynote speaker in conferences, invited talks and organized several conferences. He has authored several papers in national and international journals.