

Unit 10: From Distributed Computing to Microarchitectures

Required Reading

Arnaut, W., Oliveira, K. & Lima, F. (2010) OWL-SOA: A Service Oriented Architecture Ontology Useful during Development Time and Independent from Implementation Time, IEEE.

Munir, K. & Sheraz Anjum, M. (2018) The use of ontologies for effective knowledge modelling and information retrieval, Applied Computing and Informatics. 14: 2. 116-126. DOI: <https://doi.org/10.1016/j.aci.2017.07.003>.

Sampath Kumar, V., Khamis, A., Fiorini, S., Carbonera, J., Olivares Alarcos, A., Habib, M., Olszewska, J. (2019) Ontologies for Industry 4.0. The Knowledge Engineering Review, 34. DOI: <https://doi.org/10.1017/S0269888919000109>.

Additional Reading

Pillai, A.B. (2017) *Software Architecture with Python*. Birmingham, UK. Packt Publishing Ltd.

- Chapter 5.

Open Group (2016) The SOA Source Book: Service-Oriented Architecture Ontology Version 2.0. Chapter 2: System and Element.

Wang, H., Sayadi, H., Sasan, A., Rafatirad, S. & Homayoun, H. (2020) HybriDG: Hybrid Dynamic Time Warping and Gaussian Distribution Model for Detecting Emerging Zero-Day Microarchitectural Side-Channel Attacks. 19th IEEE International Conference on Machine Learning and Applications (ICMLA). 604-611. DOI: <https://doi.org/10.1109/ICMLA51294.2020.00101>.

Calderón-Gómez, H., et al. (2020) Telemonitoring System for Infectious Disease Prediction in Elderly People Based on a Novel Microservice Architecture. IEEE Access. 8. 18340-118354. DOI: <https://doi.org/10.1109/ACCESS.2020.3005638>.