S. B. Nath, H. Gupta, S. Chakraborty and S. K. Ghos: “A Survey of Fog Computing and Communication: Current Researches and Future Directions”

IEEE Communication Surveys and Tutorials, April 2018

https://www.researchgate.net/publication/324492557_A_Survey_of_Fog_Computing_and_Communication_Current_Researches_and_Future_Directions
The hot topics in Fog Computing are in particular the following topics:

· Support of time-sensitive IoT/5G applications

· Real-time intelligence in IoT/5G services

· Support of Mobile IoT Applications

· Orchestration and Management of 5G-enabled IoT applications

· Vehicle-to-Everything (V2X) services

· Support of geo-distributed control systems

· Support of security and privacy protection in IoT services

· Ambient intelligence in IoT services

· Swarm intelligence in IoT applications

· Mobile information-centric IoT /5G services

· Availability of container-based virtualization at IoT edge

I would like to recommend the following sources of literature:

· J. Santos, T. Wauters, B. Volckaert and F. de Turck: “Fog Computing: Enabling the Management and Orchestration of Smart City Applications in 5G Networks” , Entropy 2018, Vol. 20(1), https://doi.org/10.3390/e20010004
· M. S. de Brito, S. Hoque, T. Magedanz, R. Steinke, A. Willner, D. Nehls, O. Keils and F. Schreiner: A Service Orchestration Architecture for Fog-enabled Infrastructures. Proceedings of the Second International Conference on fog and Mobile Edge Computing (FMEC), Valencia, May 2017, DOI: 10.1109/FMEC.2017.7946419

· R. Vilalta, A. Mayoral, R. Casellas, R. Martínez and R. Muñoz: “SDN / NFV Orchestration of Multi-technology and Multi-domain Networks in Cloud / Fog Architectures for 5G Services”, 21st OptoElectronics and Communications Conference (OECC) held jointly with 2016 International Conference on Photonics in Switching (PS), Vol.

· X. Liu, Y. Liu, H. Song and A. Liu: Big Data Orchestration as a Service Network, IEEE Communications Magazine, Vol. 55 (9), 2017; DOI: 10.1109/MCOM.2017.1700090

· N. Mohamed, J.Al-Jaroodi, I. Jawhar, S. Lazarova-Molnar and S. Mahmoud: "SmartCityWare: A Service-Oriented Middleware for Cloud and Fog Enabled Smart City Services", IEEE Access, July 2017; DOI: 10.1109/ACCESS.2017.2731382

· Aljumah and T. A. Ahanger: “Fog Computing and Security Issues: A review”, 7th International Conference on Computers Communications and Control (ICCCC), 2018

· P. Hu, , H. Ning, T. Qiu,Y. Zhang and X. Luo: Fog Computing Based Face Identification and Resolution Scheme in Internet of Things, IEEE Transactions on Industrial Informatics, Vol. 13 (4), Aug. 2017, DOI: 10.1109/TII.2016.2607178

[1]. Mahmud, Md & Buyya, Rajkumar. (2016). Fog Computing: A Taxonomy, Survey and Future Directions. Internet of Everything - Algorithms, Methodologies, Technologies and Perspectives. 10.1007/978-981-10-5861-5_5.

[2]. Carla Mouradian, Diala Naboulsi, Sami Yangui, Roch H. Glitho, Monique J. Morrow, and Paul A. PolakosA Comprehensive Survey on Fog Computing: State-of-the-art and Research Challenges,

Real-time analytics at fog,
Cognitive fog-based applications, methods of Fog-to-Fog and Fog-to-Cloud communication,
Trust and Security in fog computing.