3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during year

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Prof. Madhavi Shamkuwar	Digital Dimensions of Industry 4.0: Opportunities for Autonomic Computing and Applications	Autonomic Computing in Cloud Resource Management in Industry 4.0			International	2021	978-3-030-71755-1	Zeal In stitute of Business Admisnistration, Computer Application & Research	Springer, Cham
2	Prof. Madhavi Shamkuwar	Introduction to blockchain and distributed systems—fundamental theories and concepts	Blockchain for Smart Cities			International	2021	9780128244463.0	Zeal In stitute of Business Admisnistration, Computer Application & Research	Elsevier

Director
Zeal Education Society's
Zeal Institute of Business
Administration Computer Application
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Digital Dimensions of Industry 4.0: Opportunities for Autonomic Computing and Applications

Autonomic Computing in Cloud Resource Management in Industry 4.0
pp 347-383 | Cite as

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Chapter

First Online: 05 August 2021

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Abstract

While walking the path through a fourth industrial revolution, the journey of transformation from the time when human intervention was needed, to the current state where the processes are completely automated and are still continuing to a new horizon. A game-changer adoption of the technology of "autonomic computing" supports industrial systems from deep inside and helps sustain with the ever-increasing complexity of systems, helps in customization to a greater extent, helps to manage the maintenance and reliability of the system that is beyond the limits of just human intervention. With this understanding, our work talks about important digital dimensions of smart manufacturing systems. It develops high-level awareness of technologies and ecosystems of smart manufacturing—Industry 4.0. Furthermore, readers would be able to identify tremendous opportunities for applications of computational intelligence referring to the capabilities and aspects of autonomic computing; those are self-healing, self-configuring, self-optimization, and self-protecting; thus pointers for innovation and applied research

Keywords

Autonomic computing Internet of things Industry 4.0 Cyber-physical system Cloud computing ICT Robotics process automation Artificial intelligence Graph theory Digital twin Big data analytics Data democracy Industrial internet of things (IIoT)

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About this chapter

Cite this chapter as:
Sharma N., Shamkuwar M., Ramdasi P. (2021) Digital Dimensions of Industry 4.0: Opportunities for Autonomic Computing and Applications. In: Choudhury T., Dewangan B.K., Tomar R., Singh B.K., Toe T.T., Nhu N.G. (eds) Autonomic Computing in Cloud Resource Management in Industry 4.0. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-030-71756-8_19

First Online
05 August 2021

DOI
https://doi.org/10.1007/978-3-030-71756-8_19

Publisher Name
Springer, Cham

Print ISBN
978-3-030-71755-1

Online ISBN
978-3-030-71756-8

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