

1. Record Nr.	UNINA9910484769403321
Titolo	Artificial intelligence and IoT : smart convergence for eco-friendly topography // editors, Kalaiselvi Geetha Manoharan, Jawaharlal Arun Nehru, Sivaraman Balasubramanian
Pubbl/distr/stampa	Singapore : , : Springer, , [2021] ©2021
ISBN	981-336-400-9
Descrizione fisica	1 online resource (274 pages)
Collana	Studies in Big Data ; ; Volume 85
Disciplina	004.678
Soggetti	Internet of things Artificial intelligence Internet de les coses Intel·ligència artificial Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Smart IoT multimodal emotion recognition system using deep learning networks Artificial Intelligence and IoT framework for the health monitoring system Big Data Classification: Application and Challenges A survey on recent deep learning architectures Research Progress of MapReduce Big Data Processing Platform and Algorithm A CNN Based Traffic Sign Recognition System Deep learning algorithm and its applications to IoT and Computer Vision Exploiting Internet of Things (IOT) Services to Autism Children Emotion Recognition System
Sommario/riassunto	This book projects a futuristic scenario that is more existent than they have been at any time earlier. To be conscious of the bursting prospective of IoT, it has to be amalgamated with AI technologies. Predictive and advanced analysis can be made based on the data collected, discovered and analyzed. To achieve all these compatibility, complexity, legal and ethical issues arise due to automation of connected components and gadgets of widespread companies across the globe. While these are a few examples of issues, the authors intention in editing this book is to offer concepts of integrating AI with

IoT in a precise and clear manner to the research community. In editing this book, the authors attempt is to provide novel advances and applications to address the challenge of continually discovering patterns for IoT by covering various aspects of implementing AI techniques to make IoT solutions smarter. The only way to remain pace with this data generated by the IoT and acquire the concealed acquaintance it encloses is to employ AI as the eventual catalyst for IoT. IoT together with AI is more than an inclination or existence; it will develop into a paradigm. It helps those researchers who have an interest in this field to keep insight into different concepts and their importance for applications in real life. This has been done to make the edited book more flexible and to stimulate further interest in topics. All these motivated the authors toward integrating AI in achieving smarter IoT. The authors believe that their effort can make this collection interesting and highly attract the student pursuing pre-research, research and even master in multidisciplinary domain.

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Autore

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Livello bibliografico

Note generali

Nota di bibliografia

Nota di contenuto

UNINA9910788841403321

Felshtyn Alexander <1952->

Dynamical zeta functions, Nielsen theory, and Reidemeister torsion //
Alexander Felshtyn

Providence, Rhode Island : , : American Mathematical Society, , 2000

1-4704-0290-4

1 online resource (165 p.)

Memoirs of the American Mathematical Society, , 0065-9266 ; ; number
699

510 s

515/.56

Functions, Zeta

Fixed point theory

Piecewise linear topology

Inglese

Materiale a stampa

Monografia

"Volume 147, number 699 (third of 4 numbers)."

Includes bibliographical references.

""Contents""; ""Introduction""; ""0.1 From Riemann zeta function to
dynamical zeta functions""; ""0.1.1 Riemann zeta function""; ""0.1.2

Problems concerning zeta functions"; ""0.1.3 Important types of zeta functions"; ""0.1.4 Hasse-Weil zeta function"; ""0.1.5 Dynamical zeta functions"; ""0.2 Dynamical zeta functions and Nielsen fixed point theory"; ""0.3 Congruences for Reidemeister numbers"; ""0.4 Reidemeister torsion"; ""0.5 Table of contents"; ""1 Nielsen Fixed Point Theory"; ""1.1 History"; ""1.2 Lifting classes and fixed point classes"; ""1.2.1 The influence of a homotopy""
""1.3 Reidemeister numbers""""1.3.1 Reidemeister numbers of a continuous map"; ""1.3.2 Reidemeister numbers of a group endomorphism"; ""1.4 Nielsen numbers of a continuous map"; ""1.4.1 The fixed point index"; ""1.4.2 Nielsen numbers"; ""1.4.3 The least number of fixed points"; ""2 The Reidemeister zeta function"; ""2.1 A Convolution Product"; ""2.2 Pontryagin Duality"; ""2.3 Eventually commutative endomorphisms"; ""2.3.1 Trace formula for the Reidemeister numbers of eventually commutative endomorphisms""
""2.3.2 Rationality of Reidemeister zeta functions of eventually commutative endomorphisms - first proof""""2.3.3 Functional equation for the Reidemeister zeta function of an eventually commutative endomorphism"; ""2.3.4 Rationality of Reidemeister zeta functions of eventually commutative endomorphisms - second proof"""; ""2.3.5 Connection of the Reidemeister zeta function with the Lefschetz zeta function of the dual map"; ""2.4 Endomorphisms of finite groups"";
""2.5 Endomorphisms of the direct sum of a free Abelian and a finite group""; ""2.6 Endomorphisms of nilpotent groups""
""2.6.1 Functional equation""""2.7 The Reidemeister zeta function and group extensions"; ""2.8 The Reidemeister zeta function of a continuous map"; ""2.8.1 The Reidemeister zeta function of a continuous map and Serre bundles"; ""3 The Nielsen zeta function"";
""3.1 Radius of Convergence of the Nielsen zeta function""; ""3.1.1 Topological entropy"; ""3.1.2 Algebraic lower estimation for the Radius of Convergence""; ""3.2 Nielsen zeta function of a periodic map""; ""3.3 Orientation-preserving homeomorphisms of a compact surface""
""3.3.1 Geometry of the Mapping Torus and Radius of Convergence""""3.4 The Jiang subgroup and the Nielsen zeta function""; ""3.5 Polyhedra with finite fundamental group""; ""3.6 Nielsen zeta function in other special cases""; ""3.6.1 Pseudo-Anosov homeomorphism of a compact surface""; ""3.7 The Nielsen zeta function and Serre bundles""; ""3.8 Examples""; ""4 Reidemeister and Nielsen zeta functions modulo normal subgroup, minimal dynamical zeta functions""; ""4.1 Reidemeister and Nielsen zeta functions modulo a normal subgroup""
""4.1.1 Radius of Convergence of the mod K Nielsen zeta function""
