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Computational Collective Intelligence

**Ngoc Thanh Nguyen, Ryszard
Kowalczyk, Joaquim Filipe**



Computational Collective Intelligence:

Computational Collective Intelligence Ngoc Thanh Nguyen, Vu Dinh Duc Anh, Adrianna Kozierekiewicz, Sinh Nguyen Van, Manuel Núñez, Jan Treur, Gottfried Vossen, 2025-11-08 This two set volume LNAI 16138 16139 constitutes the refereed proceedings of the 17th International Conference on Computational Collective Intelligence ICCCI 2025 held in Ho Chi Minh City Vietnam during November 12 15 2025 The 67 revised full papers presented in these proceedings were carefully reviewed and selected from 290 submissions The papers are organized in the following topical sections Part I Collective Intelligence and Collective Decision Making Co operative Strategies for Decision Making Natural Language Processing Knowledge Engineering Data Mining Cyber Security Blockchain Computational Intelligence in Medical Applications Computational Intelligence for Digital Content Understanding

Transactions on Computational Collective Intelligence XXVI Ngoc Thanh Nguyen, Ryszard Kowalczyk, Alexandre Miguel Pinto, Jorge Cardoso, 2017-06-14 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic Web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This twenty sixth issue is a special issue with selected papers from the First International KEYSTONE Conference 2015 IKC 2015 part of the keystone COST Action IC1302

Computational Collective Intelligence Ngoc Thanh Nguyen, Lazaros Iliadis, Ilias Maglogiannis, Bogdan Trawiński, 2021-10-31 This book constitutes the refereed proceedings of the 13th International Conference on Computational Collective Intelligence ICCCI 2021 held in September October 2021 The conference was held virtually due to the COVID 19 pandemic The 58 full papers were carefully reviewed and selected from 230 submissions The papers are grouped in topical issues on knowledge engineering and semantic web social networks and recommender systems collective decision making cooperative strategies for decision making and optimization data mining and machine learning computer vision techniques natural language processing Internet of Things technologies and applications Internet of Things and computational technologies for collective intelligence computational intelligence for multimedia understanding

Advances in Computational Collective Intelligence Krystian Wojtkiewicz, Jan Treur, Elias Pimenidis, Marcin Maleszka, 2021-09-29 This book constitutes refereed proceedings of the 13th International Conference on International Conference on Computational Collective Intelligence ICCCI 2021 held in Kallithea Rhodes Greece in October November 2021 Due to the the COVID 19 pandemic the conference was held online The 44 full papers and 14 short papers were thoroughly reviewed and selected from 231 submissions The papers are organized according to the following topical

sections social networks and recommender systems collective decision making computer vision techniques innovations in intelligent systems cybersecurity intelligent methods data mining and machine learning machine learning in real world data Internet of Things and computational technologies for collective intelligence smart industry and management systems low resource languages processing computational intelligence for multimedia understanding *Transactions on Computational Collective Intelligence XXVIII* Ngoc Thanh Nguyen,Ryszard Kowalczyk,Jaap van den Herik,Ana Paula Rocha,Joaquim Filipe,2018-05-01 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic Web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This twenty eight issue is a special issue with 11 selected papers from the International Conference on Agents and Artificial Intelligence ICAART 2016 and 2017 editions **Transactions on Computational Collective Intelligence XXII** Ngoc Thanh Nguyen,Ryszard Kowalczyk,2016-02-26 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic Web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This twenty second issue contains 11 carefully selected and revised contributions **Transactions on Computational Collective Intelligence XX** Ngoc Thanh Nguyen,Ryszard Kowalczyk,Béatrice Duval,Jaap van den Herik,Stephane Loiseau,Joaquim Filipe,2016-01-05 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic Web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This twentieth issue contains 11 carefully selected and revised contributions *Transactions on Computational Collective Intelligence XXIV* Ngoc Thanh Nguyen,Ryszard Kowalczyk,Joaquim Filipe,2016-09-29 These transactions publish research in computer based methods of

computational collective intelligence CCI and their applications in a wide range of fields such as the semantic Web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This twenty fourth issue contains 9 carefully selected and revised contributions p *Transactions on Computational Collective Intelligence XXVII* Jacek Mercik,2017-11-25 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic Web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This twenty seventh issue is a special issue with 13 selected papers from the Second Seminar on Quantitative Methods of Group Decision Making

Transactions on Computational Collective Intelligence XIII Ngoc Thanh Nguyen,Hoai An Le Thi,2014-02-07 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This eleventh issue contains 9 carefully selected and thoroughly revised contributions [Transactions on Computational Collective Intelligence XXXI](#) Ngoc Thanh Nguyen,Richard Kowalczyk,Jacek Mercik,Anna Motylska-Kuźma,2018-12-29 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This thirty first issue presents 12 selected papers from the 3rd Seminar on Quantitative Methods of Group Decision Making which was

held in November 2017 at the WSB University in Wrocław **New Challenges in Computational Collective Intelligence**

Radosław Katarzyniak, Adam Janiak, 2009-09-29 Collective intelligence has become one of major research issues studied by today's and future computer science Computational collective intelligence is understood as this form of group intellectual activity that emerges from collaboration and competition of many artificial individuals Robotics artificial intelligence artificial cognition and group working try to create efficient models for collective intelligence in which it emerges from sets of actions carried out by more or less intelligent individuals The major methodological theoretical and practical aspects underlying computational collective intelligence are group decision making collective action coordination collective competition and knowledge description transfer and integration Obviously the application of multiple computational technologies such as fuzzy systems evolutionary computation neural systems consensus theory knowledge representation etc is necessary to create new forms of computational collective intelligence and support existing ones Three subfields of application of computational technologies to support forms of collective intelligence are of special attention to us The first one is semantic web treated as an advanced tool that increases the collective intelligence in networking environments The second one covers social networks modeling and analysis where social networks are this area of in which various forms of computational collective intelligence emerges in a natural way The third subfield relates us to agent and multi agent systems understood as this computational and modeling paradigm which is especially tailored to capture the nature of computational collective intelligence in populations of autonomous individuals *Transactions on Computational Collective Intelligence XI* Ngoc

Thanh Nguyen, 2013-10-09 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This eleventh issue contains 9 carefully selected and thoroughly revised contributions **Advanced**

Methods for Computational Collective Intelligence Ngoc Thanh Nguyen, Bogdan Trawiński, Radosław Katarzyniak, Geun-Sik Jo, 2012-10-13 The book consists of 35 extended chapters which have been selected and invited from the submissions to the 4th International Conference on Computational Collective Intelligence Technologies and Applications ICCCI 2012 held on November 28-30 2012 in Ho Chi Minh City Vietnam The book is organized into six parts which are semantic web and ontologies social networks and e learning agent and multiagent systems data mining methods and applications soft computing and optimization and control respectively All chapters in the book discuss theoretical and practical issues connected with computational collective intelligence and related technologies The editors hope that the book

can be useful for graduate and Ph D students in Computer Science in particular participants in courses on Soft Computing Multiagent Systems and Data Mining This book can be also useful for researchers working on the concept of computational collective intelligence in artificial populations It is the hope of the editors that readers of this volume can find many inspiring ideas and use them to create new cases of intelligent collectives Many such challenges are suggested by particular approaches and models presented in individual chapters of this book The editors hope that readers of this volume can find many inspiring ideas and influential practical examples and use them in their future work

New Trends in Computational Collective Intelligence David Camacho,Sang-Wook Kim,Bogdan Trawiński,2014-09-10 This book consists of 20 chapters in which the authors deal with different theoretical and practical aspects of new trends in Collective Computational Intelligence techniques Computational Collective Intelligence methods and algorithms are one the current trending research topics from areas related to Artificial Intelligence Soft Computing or Data Mining among others Computational Collective Intelligence is a rapidly growing field that is most often understood as an AI sub field dealing with soft computing methods which enable making group decisions and processing knowledge among autonomous units acting in distributed environments Web based Systems Social Networks and Multi Agent Systems very often need these tools for working out consistent knowledge states resolving conflicts and making decisions The chapters included in this volume cover a selection of topics and new trends in several domains related to Collective Computational Intelligence Language and Knowledge Processing Data Mining Methods and Applications Computer Vision and Intelligent Computational Methods This book will be useful for graduate and PhD students in computer science as well as for mature academics researchers and practitioners interested in the methods and applications of collective computational intelligence in order to create new intelligent systems

Transactions on Computational Collective Intelligence VIII Ngoc-Thanh Nguyen,2012-10-12 These Transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the Semantic Web social networks and multiagent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This eighth issue contains a collection of ten carefully selected and thoroughly revised contributions

Computational Collective Intelligence Ngoc Thanh Nguyen,Bao Hung Hoang,Cong Phap Huynh,Dosam Hwang,Bogdan Trawiński,Gottfried Vossen,2020-11-23 This volume constitutes the refereed proceedings of the 12th International Conference on Computational Collective Intelligence ICCCI 2020 held in Da Nang Vietnam in November 2020 The 70 full papers presented were carefully reviewed and selected from 314 submissions The papers are grouped in topical sections on knowledge engineering and

semantic web social networks and recommender systems collective decision making applications of collective intelligence data mining methods and applications machine learning methods deep learning and applications for industry 4 0 computer vision techniques biosensors and biometric techniques innovations in intelligent systems natural language processing low resource languages processing computational collective intelligence and natural language processing computational intelligence for multimedia understanding and intelligent processing of multimedia in web systems The conference was held virtually due to the COVID 19 pandemic Transactions on Computational Collective Intelligence XXIX Ngoc Thanh Nguyen,Ryszard Kowalczyk,2018-04-20 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic Web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This twenty ninth issue is a regular issue with 10 selected papers **Transactions on Computational Collective Intelligence XIX** Ngoc Thanh Nguyen,Ryszard Kowalczyk,Fatos Xhafa,2015-12-11 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic Web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This nineteenth issue contains 11 carefully selected and revised contributions *Transactions on Computational Collective Intelligence XXX* Ngoc Thanh Nguyen,Richard Kowalczyk,2018-09-23 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This thirtieth issue is a regular issue with 12 selected papers

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