

Basic Data about ICCCI 2019

1. Place and Dates:

- Place: Hendaye, France
- Duration: 3 days
- Dates: 4-6 September 2019

2. Organizers

- French SIGAPP Chapter, France
Website: <http://sigappfr.acm.org/en/>
- Wrocław University of Science and Technology, Poland (WUST)
Website: <http://pwr.edu.pl/en/>
- in cooperation with Université de Pau et des Pays de l'Adour, France
Website: <https://www.univ-pau.fr/en/home.html>
- in cooperation with IEEE SMC Technical Committee on Computational Intelligence
Website: <http://www.ieeesmc.org/technical-activities/cybernetics/computational-collective-intelligence>
- and in cooperation with European Research Center for Information Systems (ERCIS)
Website: <https://www.ercis.org/>

3. Responsible Persons for ICCCI 2019 organization

from UWE are

- Prof. Richard Chbeir, SIGAPP, as General Chair
Website: <http://spider.sigappfr.org/members/rchbeir/>
Email: Richard.Chbeir@univ-pau.fr
- Dr. Khoulood Salameh, SIGAPP, as Organizing Chair
Website: <http://spider.sigappfr.org/members/khoulood-salameh/>
Email: Khoulood.Salameh@univ-pau.fr

from WUST are

- Prof. Ngoc Thanh Nguyen, WUST as General Chair,
Website: <http://www.staff-ksi.pwr.edu.pl/nguyen/>
Email: Ngoc-Thanh.Nguyen@pwr.edu.pl
- Prof. Bogdan Trawiński, WUST as Special Session Chair.
Website: <http://staff-ksi.pwr.edu.pl/trawinski/>
Email: Bogdan.Trawinski@pwr.edu.pl

4. Figures (prediction/estimation)

- No. of papers submitted: about 300
- No. of papers accepted: 120
- No. of authors' countries: 40
- No. of special sessions accepted : 10
- No. of Program Committee members and reviewers: 200

5. Proceedings and post-conference journals

- The proceedings of ICCCI 2019 will be published by Springer in two volumes of Lecture Notes in Artificial Intelligence LNCS/LNAI, indexed in ISI Web of Science, EI, Scopus, DBLP, and Google Scholar.
Website: <https://www.springer.com/series/1244>
- The best papers will be invited for publication in an expanded form in the Springer's prestigious journal the Transactions on Computational Collective Intelligence, indexed in ISI Web of Science, EI, Scopus, ACM Digital Library, DBLP, and Google Scholar.
Website: <http://www.springer.com/series/8851>

6. Special sessions proposed

CSDMO 2019: Special Session on Cooperative Strategies for Decision Making and Optimization
Organizers: Dariusz Barbucha, Ireneusz Czarnowski, Piotr Jedrzejowicz

MLRWD 2018: Special Session on Machine Learning in Real-World Data
Organizers: Krzysztof Kania, Przemyslaw Juszczuk, Jan Kozak, Barbara Probiez

DCISM 2019: Special Session on Distributed Collective Intelligence for Smart Manufacturing
Organizers: Marcin Fojcik, Rafal Cupek, Adam Ziebinski, Knut Øvsthus

BISAS 2019: Special Session on Big Data Streaming, Applications and Security
Organizers: Raja Chiky, Farid Meziane

IMIS 2019: Special Session on Intelligent Management Information Systems
Organizers: Marcin Hernes, Artur Rot

CIST 2019: Special Session on Collective Intelligence for Science and Technology
Organizers: Habiba Drias, Sadok Ben Yahia, Abdellatif El-Afia, Nadjat Kamel

WebSys 2019: Special Session on Intelligent Processing of Multimedia in Web Systems
Organizers: Kazimierz Choros, Maria Trocan

CCINLP 2019: Special Session on Computational Collective Intelligence and Natural Language Processing
Organizers: Ismaïl Biskri

ISSC 2019: Special Session on Intelligent Sustainable Smart Cities
Organizers: Libuse Svobodova, Ali Selamat, Petra Maresova, Arkadiusz Kawa, Bartłomiej Pieranski, Miroslava Mikusova

IMSARWS 2019: Special Session on Intelligent Modeling and Simulation Approaches for Real World Systems
Organizers: Doina Logofatu, Costin Badica, Florin Leon

7. Contact

- Website: <http://iccci.sigappfr.org>
- Academic matters: Richard Chbeir
Email : richard.chbeir@univ-pau.fr
- Local arrangements: Khouloud Salameh
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- Special sessions: Bogdan Trawiński
Email : bogdan.trawinski@pwr.edu.pl

Aim and Scope

Computational Collective Intelligence (CCI) is most often understood as a sub-field of Artificial Intelligence (AI) dealing with soft computing methods that enable making group decisions or processing knowledge among autonomous units acting in distributed environments. Methodological, theoretical, and practical aspects of computational collective intelligence are considered 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., can support human and other collective intelligence, and create new forms of CCI in natural and/or artificial systems. Three subfields of the application of computational intelligence technologies to support various forms of collective intelligence are of special interest but are not exclusive: Semantic Web (as an advanced tool for increasing collective intelligence), social network analysis (as the field targeted to the emergence of new forms of CCI), and multi-agent systems (as a computational and modeling paradigm especially tailored to capture the nature of CCI emergence in populations of autonomous individuals).

The aim of this conference is to provide an internationally respected forum for scientific research in the computer-based methods of collective intelligence and their applications in (but not limited to) such fields as group decision making, collective processing, knowledge and data integration consensus computing, semantic web, social networks and multi-agent systems.

Topics of Interest:

























Agent theory and applications	Geographic information systems	Logic in intelligence
Automated reasoning	Grey theory	Machine Learning
Cognitive modeling of agent systems	Group decision making	Mobile intelligence
Collective intelligence	Hybrid systems	Multicriteria decision making
Collective processing	Information retrieval and integration	Natural language processing
Computational biology	Intelligent architectures	Optimization and swarm intelligence
Computer vision	Intelligent applications	Pattern recognition
Computational intelligence	Intelligent buildings	Probabilistic and uncertain reasoning
Computational security	Intelligent control	Rough sets
Consensus computing	Intelligent e-learning/tutoring	Semantic web
Cooperative systems and control	Intelligent image processing	Smart living technology
Data integration	Intelligent networks	Smart sensor networks
Data mining for social networks	Intelligent transportation systems	Soft computing
Distributed intelligence	Internet of Things	Social networks
Ensemble learning	Knowledge integration	Ubiquitous computing
Evolutionary computing	Knowledge representation	Web intelligence and interaction
Fuzzy systems	Knowledge-based systems	

History of the ICCCI conferences

During eleven years 2009-2019 the authors, keynote speakers, chairs, organizers, reviewers, and sponsors contributed to the success of the ICCCI conferences. Thanks to their effort the conference series International Conference on Computational Collective Intelligence (ICCCI) is now well established. The conference has been founded by the Wrocław University of Science and Technology, Poland, and is organized annually in cooperation with leading universities from Europe and Asia. :

	ICCCI 2009	Wrocław University of Science and Technology	Wrocław, Poland 4-6 October 2009	
	ICCCI 2010	National Kaohsiung University of Applied Sciences	Kaohsiung, Taiwan 10-12 November 2010	
	ICCCI 2011	Gdynia Maritime University	Gdynia, Poland 21-23 September 2011	
	ICCCI 2012	University of Information Technology, Vietnam National University HCM	Ho Chi Minh City, Vietnam 28-30 November 2012	
	ICCCI 2013	University of Craiova	Craiova, Romania 11-13 September 2013	
	ICCCI 2014	Yeungnam University, Hanyang University	Seoul, Korea 24-26 September 2014	
	ICCCI 2015	Universidad Complutense de Madrid, Universidad Autónoma de Madrid	Madrid, Spain 21-23 September 2015	
	ICCCI 2016	Aristotle University of Thessaloniki, Democritus University of Thrace	Halkidiki, Greece 28-30 September 2016	
	ICCCI 2017	University of Cyprus	Nicosia, Cyprus 27-29 September 2017	
	ICCCI 2018	University of the West of England (UWE Bristol)	Bristol, UK 5-7 September 2019	
	ICCCI 2019	French SIGAPP Chapter and Université de Pau et des Pays de l'Adour	Hendaye, France 4-6 September 2019	

The conferences of ICCCI series have enlisted and continue a close cooperation with the Springer journal Transactions on Computational Collective Intelligence, the IEEE SMC Technical Committee on Transactions on Computational Collective Intelligence, and European Research Center for Information Systems. The table below presents the numerical data of all 24 volumes containing in total 1245 papers presented at eleven ICCCI conferences during 2009-2019.

Conference	Submissions from Countries	Oral presentations	Poster presentations	Proceedings	Vol. 1	Vol. 2	Vol. 3	Chapter downloads
ICCCI 2019	40	120 (estimation)		2 volumes of LNAI				No data
ICCCI 2018	39	98		LNAI 11055, LNAI 11056				No data
ICCCI 2017	39	114		LNAI 10448, LNAI 10449				103 659
ICCCI 2016	38	108		LNAI 9875, LNAI 9876				71 461
ICCCI 2015	37	110		LNAI 9329, LNAI 9330				97 896
ICCCI 2014	24	70	20	LNAI 8733, SCI 572				84 741
ICCCI 2013	25	72	19	LNAI 8083, SCI 513				92 723
ICCCI 2012	33	113	35	LNAI 7653, LNAI 7654, SCI 457				117 594
ICCCI 2011	25	109		LNAI 6922, LNAI 6923				85 241
ICCCI 2010	23	155		LNAI 6421, LNAI 6922, LNAI 6923				108 656
ICCCI 2009	25	71	29	LNAI 5796, SCI 244				120 486

Quality of the ICCCI conferences

1. Proceedings

Proceedings of the International Conference on Computational Collective Intelligence (ICCCI), comprising the papers accepted for oral presentation, were published within the Springer's LNCS/LNAI series. The proceedings are indexed by EI, Scopus, ISI Web of Science, ACM etc. Moreover, papers presented during poster sessions, were published in the form of chapters of the scientific monographs within the Springer's Studies in Computational Intelligence.

2. Reviewing process

Each paper submitted to the ICCCI conference is peer reviewed by at least two members of the international Program Committee. Only papers with the highest quality are selected for oral presentation and publication in the LNAI proceedings. At ICCCI 2019 the international Program Committee consists of 200 members from 42 countries from all over the world.

3. Avoiding plagiarism and self-plagiarism

The organizers of ICCCI have cooperated with Springer for a few years in order to avoid plagiarism and self-plagiarism in papers to be published in the LNAI Proceedings. All papers are checked by the *iThenticate* software (www.ithenticate.com) to detect irregularities before their publication.

4. Springer's Book Performance Report

According to the newest Springer's reports released in April 2018, the LNAI proceedings of ICCCI 2017 in Nicosia (Cyprus), ICCCI 2016 in Halkidiki (Greece), and ICCCI 2015 in Madrid (Spain) belong to the top 25% most downloaded eBooks in the relevant SpringerLink eBook Collection in 2017.

The following ICCCI Proceedings belong to the **top 25% most downloaded eBooks** in the relevant Springer's eBook Collection in 2017.

Proceedings	Volume	Chapter downloads (since online publication)
ICCCI 2017	Part 1 • LNAI 10448	44,820
ICCCI 2017	Part 2 • LNAI 10449	35,909
ICCCI 2016	Part 1 • LNAI 9875	29,857
ICCCI 2016	Part 2 • LNAI 9876	31,047
ICCCI 2015	Part 1 • LNAI 9329	36,490
ICCCI 2015	Part 2 • LNAI 9330	49,029

According to Bookmetrix the total number of downloads from Springerlink of all 1245 papers presented at all ICCCI conferences, published in 24 volumes of LNAI proceedings and SCI books, was above 900,000.

5. Rank C in the CORE 2018

The conference has gained category C in the CORE Conference Ranking

<http://portal.core.edu.au/conf-ranks/?search=ICCCI&by=all&source=CORE2018&sort=atitle&page=1>

6. Awards of 1,000 Euro funded by Springer

Springer appreciated the high quality of the conference and sponsored the best regular paper, best student paper and best special session awards at ICCCI 2016 in Halkidiki, ICCCI 2017 in Nicosia, and ICCCI 2019 in Bristol. The amount of Springer's donation was 1000 Euro each year.

