

IEEE ICC 2018 CRN Symposium Review

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Paper Submission

- Submission deadline: Oct. 31, 2017
- Review Deadline: Dec. 4, 2017
- 83 papers submitted, 3 early rejection due to plagiarism issue.
- The authors of selected papers from this symposium will be invited to submit an extended version of their work for fast-track review in the *IEEE Transactions on Cognitive Communications and Networking*

Author Distributions

Country	Authors	%	Papers (1st author)	%
USA	100	35.6	33	37.9
P.R. China	83	29.5	26	29.9
Canada	16	5.7	5	5.7
United Kingdom (Great Britain)	15	5.3	3	3.4
Australia	6	2.1	2	2.3
Italy	6	2.1	2	2.3
Germany	5	1.8	1	1.1
India	5	1.8	2	2.3
Ireland	5	1.8	1	1.1
Taiwan	5	1.8	2	2.3
France	5	1.8	2	2.3
Pakistan	5	1.8	2	2.3
Hong Kong	4	1.4	0	0.0
Singapore	4	1.4	0	0.0
Portugal	3	1.1	1	1.1
Egypt	3	1.1	1	1.1
Turkey	2	0.7	1	1.1
Russia	2	0.7	1	1.1
Japan	2	0.7	1	1.1
Sweden	2	0.7	1	1.1
Iran	1	0.4	0	0.0
Kazakhstan	1	0.4	0	0.0
Greece	1	0.4	0	0.0
Total	281			

Region	Authors	%
Asia/Pacific	115	40.9
United States	100	35.6
Europe, Middle East, Africa	50	17.8
Canada	16	5.7

Topics

Topic	Count
Design, analysis, and optimization of large-scale cognitive radio networks	20
Forward-looking cognitive radio architectures	3
Full-duplex cognitive radio communications	7
Spectrum sensing, access, and management	33
Detection and estimation techniques for cognitive radio networks	8
Measurements and statistical modeling of spectrum usage	8
Waveform design, coding, modulation, interference mitigation and management for cognitive radio networks	8
Dynamic spectrum access and management	27
Geolocation-database or other database-driven methods for spectrum sharing and opportunistic spectrum usage, such as TV white space, Licensed-Shared Access, and 3.5 GHz CBRS	12
Game-theoretic modeling of cognitive radio systems	6
Energy-efficient cognitive radio communications and networking	16
Applications of cognitive radio networking concepts in emerging cellular, ad hoc, and heterogeneous wireless networks	12
Self-healing, self-organization, and self-configuration features for cognitive radio networks	5
Machine learning, distributed optimization, and reinforcement learning methods for enhanced spectrum sharing, access, and cognitive communications	14
Routing protocols and architectures for cognitive radio networks	2
Learning techniques for harmonious co-existence among heterogeneous cognitive radio systems	6
Economic challenges of cognitive radio networking and spectrum sharing	8
Security and privacy in cognitive radio networks	9
Attack modeling, prevention, mitigation, and defense in cognitive radio systems	4
Standardization efforts and regulatory policies for cognitive radio networks	2
Quality-of-service provisioning in cognitive systems	10
Experimental results and test-beds for real-world deployment of cognitive radio networks	2