

Search history

Search pn=W02017069821 (Results 1)

1:

Search 2: [SP]: method and apparatus for range and coverage extension in a heterogeneous digital chaos cooperative network the present invention teaches a system and method for improved signal recovery for range and coverage extension in a heterogeneous cooperative network of digital chaos transmissions with ofdm component signal transmission. the invention improves upon the state of art in side channel information from the transmit side containing information on the clipped amplitude. in-band transmission of the side information is achieved by exploiting the sparsity of the resulting clip amplitude position with improved levels of compression over the prior art using gabor transform multiple symbol encoding transmitter. the information rate of the clipped amplitude is sub-nyquist relative to the original ofdm component signal transmission, which allows very low power spreading by a cooperative digital chaos sequences at a transmit side and recovery of the clipped amplitude at a receive side. further, an improved noise resistance side channel performance is achieved by decoding gabor transform symbols for symbol recovery. (Results 38)

Search 2 and cooperative (Results 4)

3:

1) Family number: 60814182 (US2015333946A)

Title: METHOD AND APPARATUS FOR CONTROLLING OUT-OF-BAND INTERFERENCE USING PEAK-TO-AVERAGE-POWER-RATIO (PAPR) REDUCTION WITH CONSTRAINTS

Priority: US20140280575 20140517 US20160361419 20161126

Family:

Publication number	Publication date	Application number	Application date
US2015333946 AA	20151119	US20140280575	20140517
US2017078133 AA	20170316	US20160361419	20161126
US10050817 BB	20180814	US20160361419	20161126

Probable Assignee: TERRY JOHN DAVID

Assignee(s):(std): TERRY JOHN DAVID

Inventor(s):(std): TERRY JOHN DAVID

Agent(s): MIXON PATRICK

International class H04B17/345 H04B17/354 H04B17/373 H04J11/00 H04L27/26 H04W24/08 H04W52/06
(IPC 8-9): H04W52/36 (Advanced/Invention)

CPC: H04L27/2614 H04B17/345 H04B17/354 H04B17/373 H04J11/003

US class: 370/252 375/296

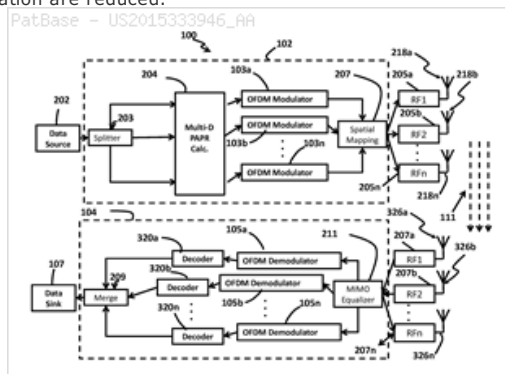
Classification Explorer

Cited documents: US9172574 BA, US8787873 BA, US6529560 BA, US2017033833 AA, US2015146805 AA, US2014192925 AA, US2010329401 AA.

Forward Citations: WO17069821, US9843959, US9479217, US2018192306, US2017094551, US10149181,

Abstract:

Abstract: A method and system uses a constrained set of indexed samples to identify a next generation population of samples that exhibits a more desirable signal characteristic. The invention generates an intermediate set of indexed samples which are subjected to a fitness function and next generation calculations to produce next generation indexes for the next population of samples. The next generation indexes population of samples is further constrained over initial indexes for generating a more desirable signal characteristic. In dynamic spectrum access networks having OFDM components, the interference between collections of overlay and underlay signals is adaptively controlled based on the composite PAPR. In an example, the total out-of-band interference for the collection of overlay and underlay signals for all samples of the population are reduced.



2) Family number: 70638337 (US2018219712A)

Title: METHOD AND APPARATUS FOR RANGE AND COVERAGE EXTENSION IN A HETEROGENEOUS DIGITAL CHAOS COOPERATIVE NETWORK

Priority: US20170422468 20170202

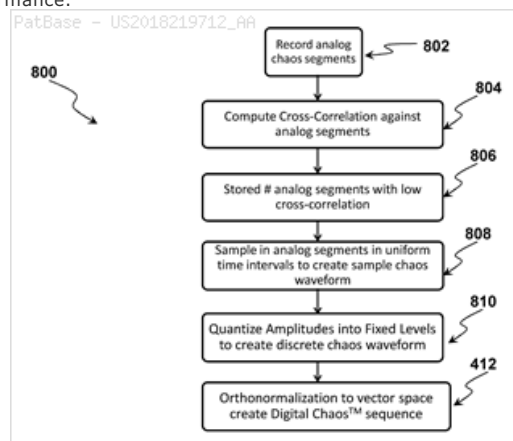
Family:

Publication number	Publication date	Application number	Application date
US2018219712 AA	20180802	US20170422468	20170202
US10103918 BB	20181016	US20170422468	20170202

Probable Assignee: TERRY JOHN DAVID
Assignee(s):(std): TERRY JOHN DAVID
Inventor(s):(std): TERRY JOHN DAVID
Agent(s): MIXON PATRICK
International class (IPC 8-9): H04L27/26 H04L5/00 H04W4/06 (Advanced/Invention)
CPC: H04L27/2623 H04W4/06 H04L27/2627 H04J13/0018 H04L27/2621 H04L5/0044 Y02D70/00 Y02D70/10 Y02D70/1262 Y02D70/1264 Y02D70/14 Y02D70/142 Y02D70/144 Y02D70/21 Y02D70/22 Y02D70/23

[Classification Explorer](#)
Cited documents: US2017163296 AA,

Abstract:
The present invention teaches a system and method for signal recovery for range and coverage extension in a heterogeneous cooperative network of digital chaos transmissions with OFDM component signal transmission. The invention improves upon the state of art in side channel information from the transmit side containing information on the clipped amplitude. In-band transmission of the side information is achieved by exploiting the sparsity of the resulting clip amplitude position in conjunction with hash function to map keys to values, where the values at the position location for the clipped amplitude. The information rate of the clipped amplitude is sub-Nyquist relative to the original OFDM component signal transmission, which allows very low power spreading by a cooperative digital chaos sequences at a transmit side and recovery of the clipped amplitude at a receive side. Further, an improved noise resistance side channel performance is achieved by mapping to clipping amplitudes to scaled digital chaos samples preloaded on the receive device. A network manager or coordinator can update these scaled digital chaos samples during scheduled beacon frames to improvement network performance.



3) Family number: 56727650 (US2014169407A)

© PatBase

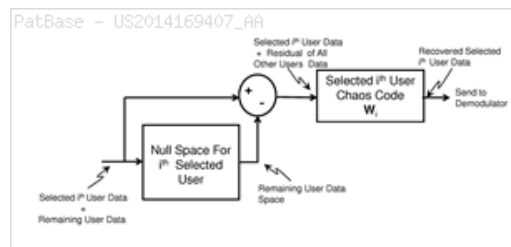
Title: METHOD AND APPARATUS FOR MULTIPLE SIGNAL AGGREGATION AND RECEPTION IN DIGITAL CHAOS NETWORK
Priority: US20120429809 20120326
Family:

Publication number	Publication date	Application number	Application date
US2014169407 AA	20140619	US20120429809	20120326
US8873604 BB	20141028	US20120429809	20120326

Probable Assignee: ESPRE HOLDING INC
Assignee(s):(std): TERRY JOHN DAVID
Assignee(s): ESPRE HOLDING INC
Inventor(s):(std): TERRY JOHN DAVID
Agent(s): PATRICK L
International class (IPC 8-9): H04B1/00 H04B1/707 (Advanced/Invention)
CPC: H04B1/707 H04L27/001
US class: 375/141 375/146 375/147

[Classification Explorer](#)
Cited documents: US8428103 BB, US7839939 BB, US7751488 BB, US7733939 BB, US7697590 BB, US7664192 BB, US7583758 BB, US7269127 BB, US7228113 BA, US6882689 BB, US6788787 BA, US6744893 BA, US6108564 A, US2010309957 AA, US2010248680 AA, US2010054225 AA, US2009310650 AA, US2009034727 AA, US2009003418 AA, US2004151266 AA, US2001038356 AA,
Forward Citations: US9966991, US9479217, US2017180168, US2017163296, US2017033833, US2016309190, US2014327737, US10070149, US10069522, US10021423, EP3329601, CN105897323,

Abstract:
The present invention teaches method and apparatus to transform a featureless, unpredictable, and non-repeatable chaos waveform into digital chaos waveforms that maintain featureless characteristics to serve as a for wireless communications protocol, whereby unintended observers cannot detect or disrupt yet imprint a small measure of predictability and repeatability to aid intend observers in recovering embedded information. This invention discloses wireless communication systems with multiple signal aggregation at the transmitter and multiple detection at the receiver that uses embedding digital signals and digital information within multiple digital chaos waveforms.



4) Family number: 63846736 (US2017033833A)

© PatBase

Title: METHOD AND APPARATUS FOR SECURE NETWORK ACCESS AND GROUP MEMBERSHIP IN A DIGITAL CHAOS COOPERATIVE NETWORK

Priority: US20150811804 20150728 WO2016US42785 20160718 US20160270318 20160920
US20170415956 20170126 US20170436954 20170220 US20170436957 20170220

Family:	Publication number	Publication date	Application number	Application date
	AU2016340834 AA	20170427	AU20160340834	20160718
	AU2016340834 BB	20181025	AU20160340834	20160718
	BR112018001547 A2	20180918	BR20181101547	20160718
	CA2993642 AA	20180124	CA20162993642	20160718
	CN108028669 A	20180511	CN201680043041	20160718
	CO20180000555 A2	20180131	CO20180000555	20180122
	CR20180127 A	20180509	CR20180000127	20160718
	DOP2018000022 A	20180315	DO20180000022	20180116
	EP3329601 A1	20180606	EP20160857927	20160718
	EP3329601 A4	20181114	EP20160857927	20160718
	IN201817005433 A	20180601	IN201817005433	20180213
	JP2018528665 T2	20180927	JP20180504944T	20160718
	KR20180025970 A	20180309	KR20187003924	20160718
	MX2018000792 A1	20180424	MX20180000792	20160718
	PE05922018 A1	20180405	PE20180000122	20160718
	US2017033833 AA	20170202	US20160270318	20160920
	US2017163296 AA	20170608	US20170436954	20170220
	US2017180168 AA	20170622	US20170436957	20170220
	US2018084581 AA	20180322	US20170415956	20170126
	US9479217 BA	20161025	US20150811804	20150728
	US9966991 BB	20180508	US20160270318	20160920
	US10069522 BB	20180904	US20170436954	20170220
	WO17069821 A1	20170427	WO2016US42785	20160718

Probable Assignee: TERRY JOHN

Assignee(s):(std): JOHN DAVID TERRY ; REID ANTHONY ; TERRY JOHN ; TERRY JOHN DAVID ; TERRY JOHN DAVID

Inventor(s):(std): JOHN DAVID TERRY ; REID ANTHONY ; TERRY JOHN DAVID ; TERRY JOHN DAVID

Agent(s): FPA PATENT ATTORNEYS PTY LTD; BENOIT AND COTE INC; CLAUDIA LUCIA CARO RAMIREZ; HUTCHINSON THOMAS OWEN; ASAMURA PATENT OFFICE PC; PATRICK; PATRICK L; MIXON PATRICK; SANKS TERRY M ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): G01R31/08 H04B1/00 H04B1/04 H04B1/69 H04B1/707 H04B1/713 H04B1/7136 H04B7/00 H04B7/0413 H04J13/00 H04L25/03 H04L25/49 H04L27/00 H04L27/26 H04L29/06 H04L29/08 H04L9/00 H04W12/04 H04W12/06 H04W16/26 H04W4/70 H04W40/24 H04W48/10 H04W74/08 (Advanced/Invention); H04B7/0413 H04W52/24 (Advanced/Non-invention)

International class (IPC 1-7): G01R31/08 H04B1/00

CPC: H04W12/06 H04B2201/71323 H04B1/707 H04W16/26 H04L27/2623 H04W40/244 H04L69/22 H04L27/2601 H04W52/244 H04W12/04 H04L69/324 H04B1/713 H04L5/001 H04L5/0023 H04L5/0035 H04L5/006 H04L27/0006 H04B1/69 H04W74/0816 H04B1/0475 H04J13/0018 H04L27/2614 H04B1/7136 H04B7/00 H04W4/70 Y02D70/1262 Y02D70/1264 Y02D70/142 Y02D70/144 Y02D70/21 Y02D70/22 Y02D70/23 Y02D70/444 H04B7/0413 H04L9/001 H04L27/00 H04L27/001 H04L25/0224 H04W48/10 Y02D70/40 Y02D70/44

US class: 1/1 375/133

[Classification Explorer](#)

Cited documents: WO9859458 A1, WO0074331 A1, US9479217 BA, US9332429 BB, US9287943 BB, US8873604 BB, US8798181 BA, US8797969 BA, US8576940 BB, US7583758 BB, US7471241 BA, US7228113 BA, US6981010 BA, US6788787 BA, US6744893 BA, US6310906 BA, US2017180168 AA, US2017070993 AA, US2017055179 AA, US2017048858 AA, US2016150284 AA, US2015333946 AA, US2015312910 AA, US2014169407 AA, US2012311173 AA, US2012250783 AA, US2011019817 AA, US2010309957 AA, US2010248680 AA, US2010226497 AA, US2009310650 AA, US2009034727 AA, US2009003418 AA, US2007253464 AA, US2006209926 AA, US2005036479 AA, US2004146095 AA, US2003016632 AA, US2001038356 AA,

Forward Citations: US9966991, US2018041329, US2017339576, US2017180168, US2017163296, US2017078133, US2017033833, US10103918, US10085159, US10069522, US10050817,

Abstract:

The present invention teaches a system and method for secure network access and group membership in a cooperative network of digital chaos transmissions. The invention involves sensing generated digital chaos sequences as spreading sequences at a transmit side and determining the availability of open channels at a receive side. Further, a broadcast "request to join" frame

from a node on an open channel is transmitted to network manager or coordinator. A network manager or coordinator sends an association/authentication packet, comprised of the reserved digital chaos associated to the unique device id, in response to the "request to join" frame from a node with a valid identification.

