



# Wireless Networks

The Journal of Mobile Communication, Computation and Information

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## Volume 26, issue 5, July 2020

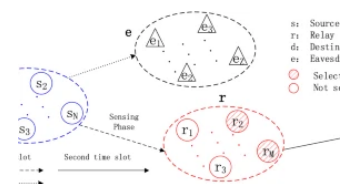
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### [Learning-based multi-relay selection for cooperative networks based on compressed sensing](#)

Xiaomei Fu, Jialun Li & Shuai Chang

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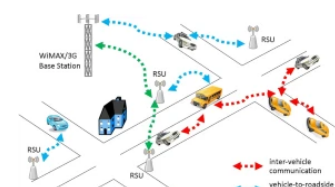


### [NERA: A new and efficient RSU based authentication scheme for VANETs](#)

Majid Bayat, Morteza Pournaghi ... Mostafa Barmshoory

OriginalPaper | Published: 05 June 2019

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## [Power-efficient and interference-free link scheduling algorithms for connected wireless sensor networks](#)

Renato E. N. Moraes, Welber W. F. dos Reis ... Daniel J. C. Coura

OriginalPaper | Published: 08 June 2019

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```

Algorithm 1 Feasible Link-Addition Power (FLAP)
put: Transmission power  $p$ , parameters  $\alpha$ ,  $\beta$ ,  $N_0$ , and  $\beta$ , and  $f(V)$ .
input: Transmission power  $p'$  and the schedule  $S(p') = \{s^1, \dots, s^L\}$  of time slots with length  $L$ .
 $t \leftarrow 1$ ,  $s^t \leftarrow \emptyset$ ,  $S(p') \leftarrow \{s^t\}$ ,  $p' \leftarrow p$ .
 $L \leftarrow \text{BorLinkAdd}(f(p'), f(V))$ .
while  $L \neq \emptyset$  do
     $(u, v) \leftarrow \text{First}(L)$ ,  $L \leftarrow L \setminus (u, v)$ .
     $s^t, p' \leftarrow \text{RankoffInterference}((u, v), S(p'), p', f(V), \alpha, N_0, \beta)$ .
    if  $s^t \neq \emptyset$  then
         $s^t \leftarrow s^t \cup \{(u, v)\}$ .
         $p' \leftarrow p'$ .
    else
         $S(p'), L \leftarrow \text{IncreaseInterference}(f, S(p'), L)$ .
         $t \leftarrow t + 1$ .
         $s^t \leftarrow s^t \cup \{(u, v)\}$ .
    end if
end while
return  $p'$  and  $S(p')$ .

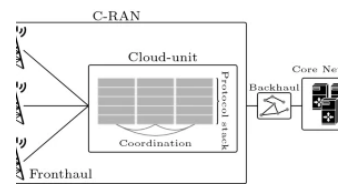
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## [Fast and efficient energy-oriented cell assignment in heterogeneous networks](#)

Javier Rubio-Loyola, Christian Aguilar-Fuster ... Joan Serrat

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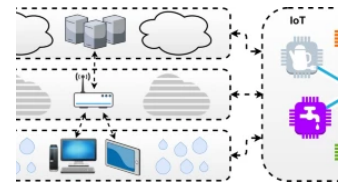


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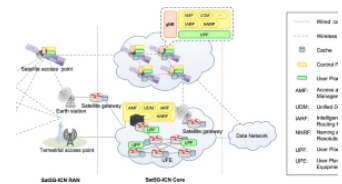


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Jiadi Chen, Wei Mi ... Jingguo Ge

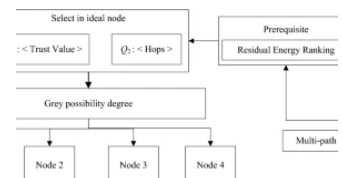
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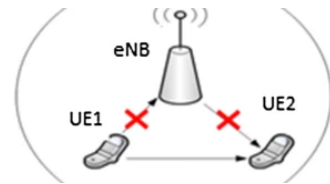
## [TMSRS: trust management-based secure routing scheme in industrial wireless sensor network with fog computing](#)

Weidong Fang, Wuxiong Zhang ... Chaogang Tang



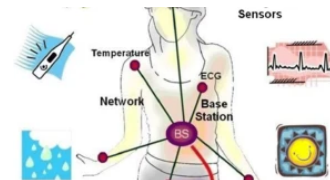
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Hanan H. Hussein, Hussein A. Elsayed & Sherine M. Abd El-kader



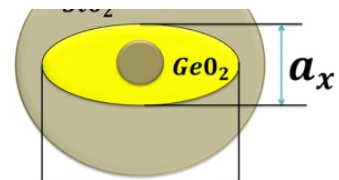
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[Dispersed beamforming approach for secure communication in UDN](#)

Garima Chopra, Rakesh Kumar Jha & Sanjeev Jain

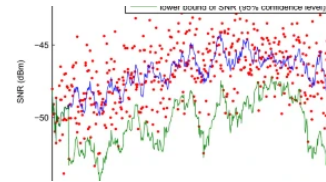


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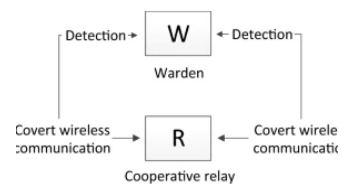


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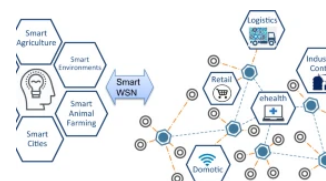


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Louie Chan, Karina Gomez Chavez ... Akram Hourani

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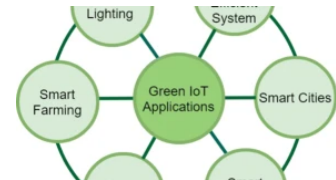
```
end for
end for
for  $W_i \in D$  do
  Calculate  $EE_{i,j}^{(1)} = \eta_j W_i \in C$ 
  Sort all  $j \in C$  in descending order of  $EE_{i,j}^{(1)}$ 
end for
for  $W_j \in C$  do
  Calculate  $EE_{i,j}^{(2)} = \eta_i W_j \in D$ 
  Sort all  $i \in D$  in descending order of the achievable  $EE_{i,j}^{(2)}$ 
end for
iter = 1
while iter < iter_max do
  for  $i \in D$  do
     $i$  proposes its most preferred CUE if it has not rejected it previously
  end for
  for  $j \in C$  do
    If  $j$  receives proposal from  $i$  then
      Keep  $i$  in its waiting list
      while  $SE_{i,j} \leq SE_{i,j_{max}}$  do
         $j$  rejects  $i$ 
      end while
    end for
  end for
  iter = iter + 1
end while
```

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Indu Dohare & Karan Singh

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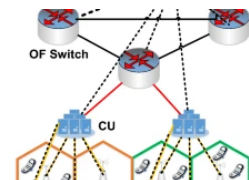


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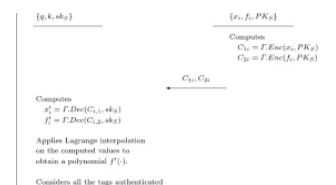


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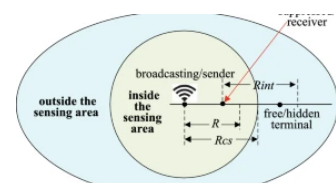


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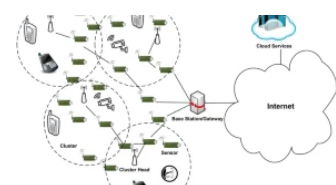


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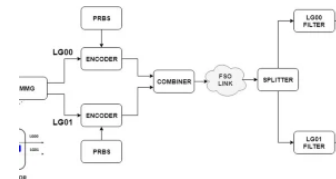
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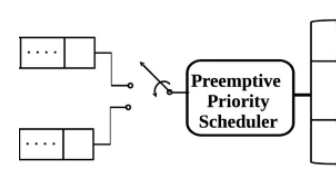
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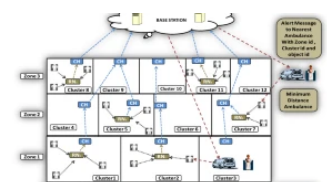
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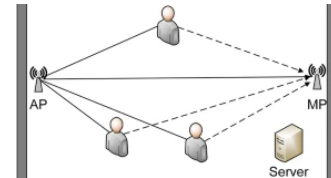
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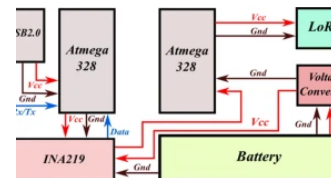
## [Prediction of energy consumption for LoRa based wireless sensors network](#)

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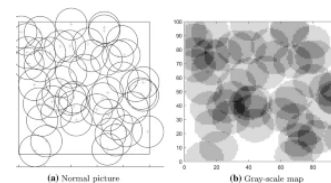
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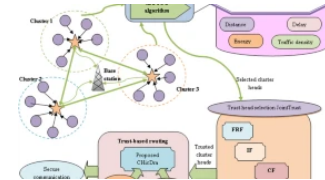


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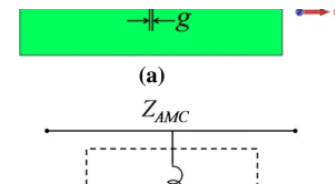


# Probe-fed wideband AMC-integrated hexagonal antenna with uniform gain characteristics for WLAN applications

Abhishek Joshi & Rahul Singhal

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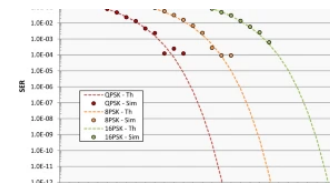


## Performance analysis of 160 Gbit/s single-channel PDM-QPSK based inter-satellite optical wireless communication (IsOWC) system

P. Sivakumar, Mehtab Singh ... Vigneswaran  
Dhasarathan

OriginalPaper | Published: 03 March 2020

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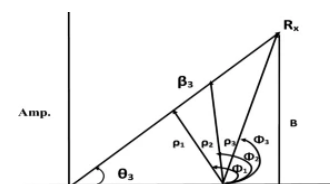


## Measurement and analysis of Wi-MAX channel in 3.3 GHz using minimal-ray fading model

Suvarna R. Bhise & Uday P. Khot

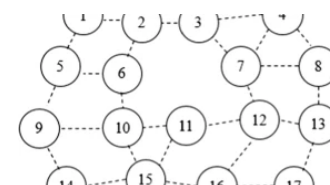
OriginalPaper | Published: 04 March 2020

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# Fuzzy logic rate adjustment controls using a circuit breaker for persistent congestion in wireless sensor networks

Phet Aimtongkham, Sovannarith Heng ... Chakchai So-In





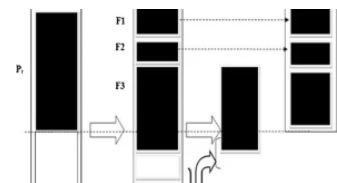
### [Non-line-of-sight error mitigating algorithms for transmitter localization based on hybrid TOA/RSSI measurements](#)

Jonghoek Kim



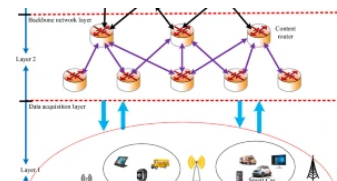
### [NSGA-II with ENLU inspired clustering for wireless sensor networks](#)

Gunjan, Ajay K Sharma & Karan Verma



### [An optimal network coding based backpressure routing approach for massive IoT network](#)

S. Malathy, V. Porkodi ... Iraj Sadegh Amiri

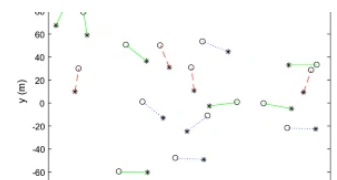


### [User-assisted bearer split control for dual connectivity in multi-RAT 5G networks](#)

Roberto P. Antonioli, Igor M. Guerreiro ... Francisco Rodrigo Porto Cavalcanti



### [Throughput improvement by mode selection in hybrid duplex wireless networks](#)



Behnaz Mousavinasab, Amirhosein Hajihoseini  
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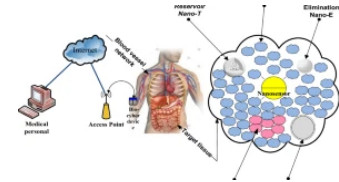
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Aya El-Fatyany, Hongzhi Wang & Saied M. Abd El-atty

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## [Dynamic energy efficient routing protocol in wireless sensor networks](#)

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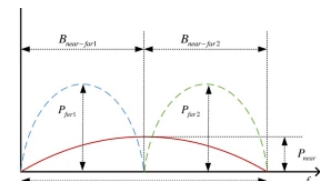
```
1:  $N_C \leftarrow \emptyset$   
2:  $N_C \leftarrow \emptyset$   
3: while  $C_C \neq S$  and  $D \notin N_{C_{UB}}$  do  
4:  $N_C \leftarrow \text{SELECTNEIGHBOR}(C_C, V[C_C])$  > Algorithm 2  
5:  $C_C \leftarrow N_C$   
6: if  $C_C = S$  then  
7:  $\text{tokens} \leftarrow C_C$   
8: if  $ACK = 1$  then  
9: if  $C_C = S$  then  
10:  $\text{tokens} \leftarrow \emptyset$   
11: else  $\text{tokens} \leftarrow \emptyset$   
12: end if  
13: end if  
14:  $C_C \leftarrow \emptyset$   
15:  $N_C \leftarrow \emptyset$   
16: else  $\text{RESET}$   
17:  $V[C_C] \leftarrow V[C_C] - \text{tokens}$   
18:  $N_C \leftarrow \text{SELECTNEIGHBOR}(C_C, V[C_C])$  > Algorithm 1  
19: end if  
20: end if  
21: end if  
22: if  $C_C \neq S$  and  $D \notin N_{C_{UB}}$  then  
23:  $V[C_C] \leftarrow V[C_C] - S_{C_{UB}}$ 
```

## [NOMA performance enhancement-based imperfect SIC minimization using a novel user pairing scenario involving three users in each pair](#)

Farid Tabee Miandoab & Behzad Mozaffari Tazehkand

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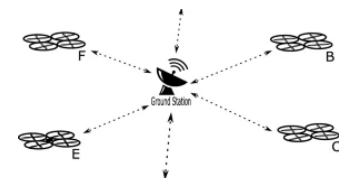


## [A hybrid MAC for non-orthogonal multiple access Unmanned Aerial Vehicles networks](#)

Saadullah Kalwar, Kwan-Wu Chin & Zhenhui Yuan

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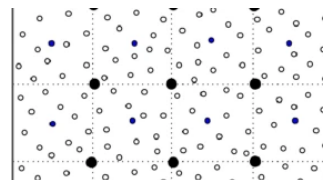


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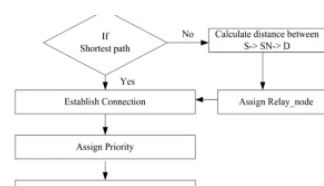


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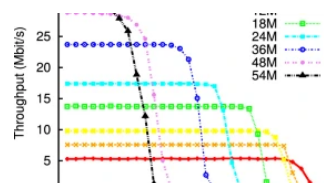


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Wei Yin, Peizhao Hu ... Ying Mao

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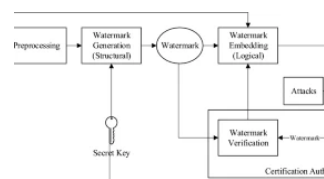


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Walid I. Khedr

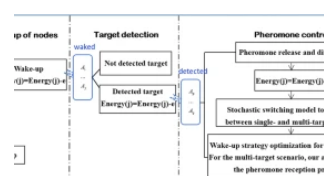
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## [SMTS: a swarm intelligence-inspired sensor wake-up control method for multi-target sensing in wireless sensor networks](#)

Jianpeng Qi, Lamei Pan ... Rui Wang



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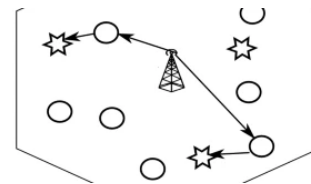
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M. V. S. Aditya, Harsh Pancholi ... Gaurav S. Kasbekar

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[Inter-slice handover management in a V2X slicing environment using bargaining games](#)

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